Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\DEC15\D1201\D13261.D Vial: 6
Acq On : 1 Dec 2015 17:39 Operator: SG
Sample : S5L0109-CAL6 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 18:06 2015 Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Tue Dec 01 14:59:37 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1201

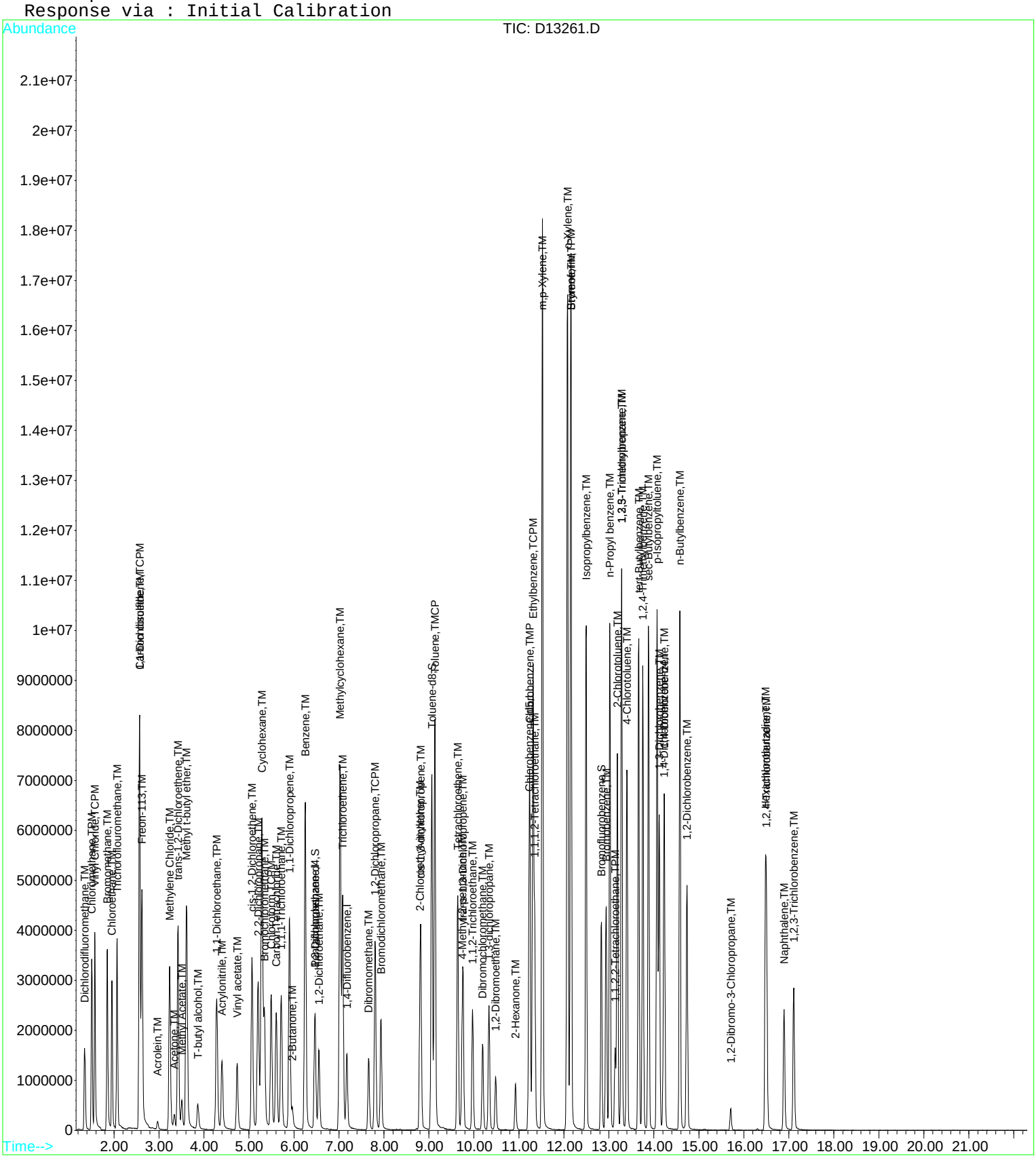
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52)	Dibromochloromethane	10.19	129	1303708	206.58	ug/l	96
53)	Ethylbenzene	11.32	91	8190005	190.54	ug/l	92
54)	Chlorobenzene	11.24	112	4930479	197.23	ug/l	99
55)	1,1,1,2-Tetrachloroethane	11.35	131	1513162	210.06	ug/l	97
56)	m,p-Xylene	11.52	91	11622541	373.76	ug/l	91
57)	o-Xylene	12.08	91	11270190	369.44	ug/l	90
58)	Styrene	12.16	104	10357217	405.22	ug/l	95
59)	Bromoform	12.16	173	675239	230.80	ug/l	79
61)	Isopropylbenzene	12.50	105	8355174	189.56	ug/l	92
62)	1,1,2,2-Tetrachloroethane	13.14	83	1194297	207.33	ug/l	99
63)	1,2,3-Trichloropropane	13.28	75	876947	202.81	ug/l	100
64)	n-Propyl benzene	13.02	91	9721370	184.20	ug/l	89
65)	Bromobenzene	12.93	77	2708753	196.87	ug/l	98
66)	1,3,5-Trimethylbenzene	13.28	105	6196472	194.82	ug/l	95
67)	2-Chlorotoluene	13.19	91	5103187	192.16	ug/l	91
68)	4-Chlorotoluene	13.40	91	5169207	194.91	ug/l	90
69)	tert-Butylbenzene	13.66	119	5938684	190.15	ug/l	97
70)	1,2,4-Trimethylbenzene	13.75	105	6026537	191.89	ug/l	94
71)	sec-Butylbenzene	13.88	105	8968206	188.66	ug/l	94
72)	p-Isopropyltoluene	14.07	119	7516782	188.78	ug/l	95
73)	1,3-Dichlorobenzene	14.12	146	3452899	195.39	ug/l	100
74)	1,4-Dichlorobenzene	14.23	146	3368244	196.32	ug/l	93
75)	n-Butylbenzene	14.58	91	6890856	186.09	ug/l	98
76)	1,2-Dichlorobenzene	14.73	146	2828607	196.63	ug/l	99
77)	1,2-Dibromo-3-Chloropropan	15.71	157	180900	200.06	ug/l	93
78)	1,2,4-Trichlorobenzene	16.50	180	1734417	210.88	ug/l	97
79)	Hexachlorobutadiene	16.48	225	1017243	220.45	ug/l	98
80)	Naphthalene	16.89	128	2914340	204.06	ug/l	98
81)	1,2,3-Trichlorobenzene	17.11	180	1332819	210.99	ug/l	99
82)	Methyl t-butyl ether	3.61	73	6126691	346.29	ug/l	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\D\DATA15\DEC15\D1201\D13261.D Vial: 6
Acq On : 1 Dec 2015 17:39 Operator: SG
Sample : S5L0109-CAL6 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 18:06 2015 Quant Results File: VD8S1201.RES

Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Dec 07 10:21:05 2015
Response via : Initial Calibration



Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

METALS SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-18
Lab Sample ID: 1502323-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Matrix:	Soil
Percent Solids:	71.30	File ID:	122815A-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	7830	28.1	28.1	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7439-97-6	Mercury	0.108	0.105	0.105	1		12/24/15 07:47	EPA 7471A	12/24/15 11:01 PRT	EPA 7471
7440-36-0	Antimony	ND	5.61	5.61	1	U	12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-38-2	Arsenic	2.77	1.40	1.40	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-39-3	Barium	60.3	28.1	28.1	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.701	0.701	1	U	12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.701	0.701	1	U	12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-70-2	Calcium	12900	35.1	35.1	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-47-3	Chromium	16.1	2.81	2.81	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-48-4	Cobalt	ND	7.01	7.01	1	U	12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-50-8	Copper	24.4	4.21	4.21	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7439-89-6	Iron	13800	35.1	35.1	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7439-92-1	Lead	48.5	1.40	1.40	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7439-95-4	Magnesium	8720	70.1	70.1	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7439-96-5	Manganese	319	2.81	2.81	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-02-0	Nickel	10.5	5.61	5.61	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-09-7	Potassium	1640	70.1	70.1	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7782-49-2	Selenium	ND	5.61	5.61	1	U	12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-22-4	Silver	ND	0.701	0.701	1	U	12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-23-5	Sodium	209	70.1	70.1	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-28-0	Thallium	ND	2.10	4.21	1	U	12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-62-2	Vanadium	22.0	7.01	7.01	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-66-6	Zinc	64.4	8.42	8.42	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS QC SUMMARY

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Analysis:	EPA 7471
Batch:	B5L2401	Preparation:	EPA 7471A
% Solids:	92.10	Laboratory ID:	B5L2401-MS1
		Client Sample ID:	1502315-01

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC.	QC LIMITS REC.
Mercury	2.17	ND	2.10	96.8	75 - 125

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Mercury	2.17	2.09	96.1	0.765	20	75 - 125

* Values outside of QC limits

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B5L2404	Preparation:	EPA 3050B
% Solids:	93.00	Laboratory ID:	B5L2404-MS1
		Client Sample ID:	1502322-02

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)		MS % REC.		QC LIMITS REC.
Aluminum	269	1510	3660	*	801	*	75 - 125
Antimony	269	ND	272		101		75 - 125
Arsenic	269	1.23	279		103		75 - 125
Barium	269	ND	302		112		75 - 125
Beryllium	269	ND	285		106		75 - 125
Cadmium	269	ND	283		105		75 - 125
Calcium	269	2350	1000	*	-503	*	75 - 125
Chromium	269	5.58	281		102		75 - 125
Cobalt	269	ND	274		102		75 - 125
Copper	269	6.66	285		104		75 - 125
Iron	269	3080	3750	*	249	*	75 - 125
Lead	269	14.2	293		104		75 - 125
Magnesium	269	255	484		85.0		75 - 125
Manganese	269	13.4	296		105		75 - 125
Nickel	269	ND	276		103		75 - 125
Potassium	269	139	605	*	173	*	75 - 125
Selenium	269	ND	266		98.8		75 - 125
Silver	26.9	ND	23.8		88.5		75 - 125
Sodium	269	ND	331		123		75 - 125
Thallium	269	ND	270		100		75 - 125
Vanadium	269	ND	294		109		75 - 125
Zinc	269	22.8	296		102		75 - 125

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B5L2404	Preparation:	EPA 3050B
% Solids:	93.00	Laboratory ID:	B5L2404-MSD1
		Client Sample ID:	1502322-02

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Aluminum	269	3870	878	*	5.51	20	75 - 125
Antimony	269	268	99.7		1.59	20	75 - 125
Arsenic	269	275	102		1.34	20	75 - 125
Barium	269	299	111		0.966	20	75 - 125
Beryllium	269	278	104		2.29	20	75 - 125
Cadmium	269	279	104		1.38	20	75 - 125
Calcium	269	984	-509	*	1.68	20	75 - 125
Chromium	269	280	102		0.268	20	75 - 125
Cobalt	269	270	100		1.54	20	75 - 125
Copper	269	281	102		1.50	20	75 - 125
Iron	269	3790	266	*	1.24	20	75 - 125
Lead	269	286	101		2.23	20	75 - 125
Magnesium	269	473	81.1		2.21	20	75 - 125
Manganese	269	291	103		1.72	20	75 - 125
Nickel	269	272	101		1.26	20	75 - 125
Potassium	269	604	173	*	0.178	20	75 - 125
Selenium	269	262	97.3		1.51	20	75 - 125
Silver	26.9	23.4	87.0		1.71	20	75 - 125
Sodium	269	326	121		1.44	20	75 - 125
Thallium	269	265	98.7		1.69	20	75 - 125
Vanadium	269	285	106		2.93	20	75 - 125
Zinc	269	290	99.4		2.13	20	75 - 125

* Values outside of QC limits

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 7471

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Matrix:	Solid	Prep Method:	EPA 7471A
Prep Batch:	B5L2401	Lab Sample ID:	B5L2401-BS1

ANALYTE	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC.	QC LIMITS REC.
Mercury	2.00	1.97	98.4	85 - 115

* Values outside of QC limits

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 6010

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Matrix:	Solid	Prep Method:	EPA 3050B
Prep Batch:	B5L2404	Lab Sample ID:	B5L2404-BS1

ANALYTE	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC.	QC LIMITS REC.
Aluminum	250	260	104	85 - 115
Antimony	250	258	103	85 - 115
Arsenic	250	256	102	85 - 115
Barium	250	263	105	85 - 115
Beryllium	250	261	105	85 - 115
Cadmium	250	261	104	85 - 115
Calcium	250	257	103	85 - 115
Chromium	250	256	102	85 - 115
Cobalt	250	258	103	85 - 115
Copper	250	261	104	85 - 115
Iron	250	261	104	85 - 115
Lead	250	261	104	85 - 115
Magnesium	250	258	103	85 - 115
Manganese	250	263	105	85 - 115
Nickel	250	258	103	85 - 115
Potassium	250	255	102	85 - 115
Selenium	250	251	100	85 - 115
Silver	25.0	22.8	91.2	85 - 115
Sodium	250	261	104	85 - 115
Thallium	250	263	105	85 - 115
Vanadium	250	262	105	85 - 115
Zinc	250	257	103	85 - 115

* Values outside of QC limits

Accredited Analytical Resources, LLC.

POST DIGEST SPIKE SAMPLE RECOVERY

1502322-02

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1502323
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street, Bronx, NY
Matrix:	Solid	Laboratory ID:	B5L2404-PS1
Batch:	B5L2404	Analysis:	EPA 6010
Preparation:	EPA 3050B	Initial/Final:	0.2 g / 10 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Aluminum	31200	28100	5000	61.8	80 - 120
Antimony	4940	ND	5000	98.8	80 - 120
Arsenic	4990	22.9	5000	99.3	80 - 120
Barium	5210	ND	5000	101	80 - 120
Beryllium	4920	ND	5000	98.4	80 - 120
Cadmium	4960	ND	5000	99.2	80 - 120
Calcium	45800	43800	5000	40.0	80 - 120
Chromium	4970	104	5000	97.3	80 - 120
Cobalt	4830	ND	5000	96.4	80 - 120
Copper	5070	124	5000	99.0	80 - 120
Iron	58600	57200	5000	27.4	80 - 120
Lead	5120	264	5000	97.0	80 - 120
Magnesium	9260	4750	5000	90.3	80 - 120
Manganese	5220	249	5000	99.4	80 - 120
Nickel	4860	ND	5000	96.8	80 - 120
Potassium	7410	2590	5000	96.4	80 - 120
Selenium	4830	ND	5000	96.6	80 - 120
Silver	433	ND	500	86.4	80 - 120
Sodium	6010	ND	5000	101	80 - 120
Thallium	4880	ND	5000	97.7	80 - 120
Vanadium	5090	ND	5000	99.8	80 - 120
Zinc	5190	424	5000	95.3	80 - 120

Accredited Analytical Resources, LLC.

SAMPLE EXTRACTION DATA

Prep Method: EPA 7471A-EPA 7471

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [g]	Final [mL]	Dilution	% Solids	Notes	Date
1502323-01 [EP-18]	B5L2401	0.10/25.00	0.100	25.0	1.00	71.30		12/24/2015

Accredited Analytical Resources, LLC.

SAMPLE EXTRACTION DATA

Prep Method: EPA 3050B-EPA 6010

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [g]	Final [mL]	Dilution	% Solids	Notes	Date
1502323-01 [EP-18]	B5L2404	1.00/50.00	1.00	50.0	1.00	71.30		12/24/2015

Accredited Analytical Resources, LLC.

METALS CALIBRATION DATA

Accredited Analytical Resources, LLC.

METHOD DETECTION AND REPORTING LIMITS

EPA 7471

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323

Matrix:	Solid	Instrument:	Cetac

Analyte	MDL	MRL	Units	Method
Mercury	0.0750	0.0750	mg/kg	EPA 7471

Accredited Analytical Resources, LLC.

METHOD DETECTION AND REPORTING LIMITS

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323

Matrix:	Solid	Instrument:	Thermo iTEVA

Analyte	MDL	MRL	Units	Method
Aluminum	20.0	20.0	mg/kg	EPA 6010
Antimony	4.00	4.00	mg/kg	EPA 6010
Arsenic	1.00	1.00	mg/kg	EPA 6010
Barium	20.0	20.0	mg/kg	EPA 6010
Beryllium	0.500	0.500	mg/kg	EPA 6010
Cadmium	0.500	0.500	mg/kg	EPA 6010
Calcium	25.0	25.0	mg/kg	EPA 6010
Chromium	2.00	2.00	mg/kg	EPA 6010
Cobalt	5.00	5.00	mg/kg	EPA 6010
Copper	3.00	3.00	mg/kg	EPA 6010
Iron	25.0	25.0	mg/kg	EPA 6010
Lead	1.00	1.00	mg/kg	EPA 6010
Magnesium	50.0	50.0	mg/kg	EPA 6010
Manganese	2.00	2.00	mg/kg	EPA 6010
Nickel	4.00	4.00	mg/kg	EPA 6010
Potassium	50.0	50.0	mg/kg	EPA 6010
Selenium	4.00	4.00	mg/kg	EPA 6010
Silver	0.500	0.500	mg/kg	EPA 6010
Sodium	50.0	50.0	mg/kg	EPA 6010
Thallium	1.50	3.00	mg/kg	EPA 6010
Vanadium	5.00	5.00	mg/kg	EPA 6010
Zinc	6.00	6.00	mg/kg	EPA 6010

Accredited Analytical Resources, LLC.

ANALYSIS SEQUENCE SUMMARY

EPA 7471

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY

Sequence:	S5L2403	Instrument:	Cetac
Calibration:	UNASSIGNED		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	S5L2403-ICV1	HG151224A-008	12/24/15 10:40
Initial Cal Blank	S5L2403-ICB1	HG151224A-009	12/24/15 10:42
Instrument RL Check	S5L2403-CRL1	HG151224A-010	12/24/15 10:44
Blank	B5L2401-BLK1	HG151224A-011	12/24/15 10:46
LCS	B5L2401-BS1	HG151224A-012	12/24/15 10:48
Matrix Spike	B5L2401-MS1	HG151224A-014	12/24/15 10:53
Matrix Spike Dup	B5L2401-MSD1	HG151224A-015	12/24/15 10:55
EP-18	1502323-01	HG151224A-018	12/24/15 11:01
Instrument RL Check	S5L2403-CRL2	HG151224A-020	12/24/15 11:05
Calibration Check	S5L2403-CCV1	HG151224A-021	12/24/15 11:07
Calibration Blank	S5L2403-CCB1	HG151224A-022	12/24/15 11:10

Accredited Analytical Resources, LLC.

ANALYSIS SEQUENCE SUMMARY

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY

Sequence:	S5L2802	Instrument:	Thermo iTEVA
Calibration:	UNASSIGNED		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	S5L2802-ICV1	122815A-005	12/28/15 10:11
Initial Cal Blank	S5L2802-ICB1	122815A-006	12/28/15 10:16
Instrument RL Check	S5L2802-CRL1	122815A-007	12/28/15 10:22
Interference Check A	S5L2802-IFA1	122815A-008	12/28/15 10:27
Interference Check B	S5L2802-IFB1	122815A-009	12/28/15 10:32
Blank	B5L2404-BLK1	122815A-010	12/28/15 10:37
LCS	B5L2404-BS1	122815A-011	12/28/15 10:42
Serial Dilution	S5L2802-SRD1	122815A-013	12/28/15 10:52
Matrix Spike	B5L2404-MS1	122815A-014	12/28/15 10:57
Matrix Spike Dup	B5L2404-MSD1	122815A-015	12/28/15 11:02
Post Spike	B5L2404-PS1	122815A-016	12/28/15 11:07
EP-18	1502323-01	122815A-019	12/28/15 11:22
Calibration Check	S5L2802-CCV1	122815A-020	12/28/15 11:27
Calibration Blank	S5L2802-CCB1	122815A-021	12/28/15 11:32
Calibration Check	S5L2802-CCV2	122815A-027	12/28/15 12:02
Calibration Blank	S5L2802-CCB2	122815A-028	12/28/15 12:07
Instrument RL Check	S5L2802-CRL2	122815A-029	12/28/15 12:12
Interference Check A	S5L2802-IFA2	122815A-030	12/28/15 12:18
Interference Check B	S5L2802-IFB2	122815A-031	12/28/15 12:23

Accredited Analytical Resources, LLC.

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 7471

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323
Sequence: S5L2403
Instrument Cetac

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S5L2403-ICV1	Mercury	5.00	4.95	99.0	ug/L	+/- 10.00%
S5L2403-CCV1	Mercury	5.00	5.14	103	ug/L	+/- 10.00%

Accredited Analytical Resources, LLC.

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323
Sequence: S5L2802
Instrument Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S5L2802-ICV1	Aluminum	8000	7660	95.8	ug/L	+/- 10.00%
	Antimony	7500	7370	98.3	ug/L	+/- 10.00%
	Arsenic	7500	7350	98.0	ug/L	+/- 10.00%
	Barium	7500	7040	93.8	ug/L	+/- 10.00%
	Beryllium	7500	7350	98.0	ug/L	+/- 10.00%
	Cadmium	7500	7420	98.9	ug/L	+/- 10.00%
	Calcium	7500	7420	99.0	ug/L	+/- 10.00%
	Chromium	7500	7350	98.0	ug/L	+/- 10.00%
	Cobalt	7500	7380	98.4	ug/L	+/- 10.00%
	Copper	7500	7450	99.3	ug/L	+/- 10.00%
	Iron	7500	7450	99.4	ug/L	+/- 10.00%
	Lead	7500	7400	98.7	ug/L	+/- 10.00%
	Magnesium	7500	7330	97.8	ug/L	+/- 10.00%
	Manganese	7500	7360	98.2	ug/L	+/- 10.00%
	Nickel	7500	7370	98.2	ug/L	+/- 10.00%
	Potassium	7500	7260	96.8	ug/L	+/- 10.00%
	Selenium	7500	7380	98.4	ug/L	+/- 10.00%
	Silver	750	724	96.5	ug/L	+/- 10.00%
	Sodium	7500	7430	99.1	ug/L	+/- 10.00%
	Thallium	7500	7460	99.5	ug/L	+/- 10.00%
	Vanadium	7500	7430	99.1	ug/L	+/- 10.00%
	Zinc	7500	7440	99.2	ug/L	+/- 10.00%
S5L2802-CCV1	Aluminum	5000	4850	97.1	ug/L	+/- 10.00%
	Antimony	5000	4930	98.5	ug/L	+/- 10.00%
	Arsenic	5000	4920	98.5	ug/L	+/- 10.00%
	Barium	5000	4890	97.9	ug/L	+/- 10.00%
	Beryllium	5000	4950	99.1	ug/L	+/- 10.00%
	Cadmium	5000	5010	100	ug/L	+/- 10.00%

Accredited Analytical Resources, LLC.

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323
Sequence: S5L2802
Instrument Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S5L2802-CCV1	Calcium	5000	4910	98.1	ug/L	+/- 10.00%
	Chromium	5000	4880	97.7	ug/L	+/- 10.00%
	Cobalt	5000	4970	99.3	ug/L	+/- 10.00%
	Copper	5000	5000	100	ug/L	+/- 10.00%
	Iron	5000	4890	97.8	ug/L	+/- 10.00%
	Lead	5000	5020	100	ug/L	+/- 10.00%
	Magnesium	5000	4940	98.8	ug/L	+/- 10.00%
	Manganese	5000	5010	100	ug/L	+/- 10.00%
	Nickel	5000	4990	99.8	ug/L	+/- 10.00%
	Potassium	5000	4820	96.4	ug/L	+/- 10.00%
	Selenium	5000	4990	99.7	ug/L	+/- 10.00%
	Silver	500	479	95.7	ug/L	+/- 10.00%
	Sodium	5000	4840	96.8	ug/L	+/- 10.00%
	Thallium	5000	5030	101	ug/L	+/- 10.00%
	Vanadium	5000	4980	99.7	ug/L	+/- 10.00%
	Zinc	5000	5020	100	ug/L	+/- 10.00%
S5L2802-CCV2	Aluminum	5000	4860	97.3	ug/L	+/- 10.00%
	Antimony	5000	4920	98.4	ug/L	+/- 10.00%
	Arsenic	5000	4950	98.9	ug/L	+/- 10.00%
	Barium	5000	4930	98.7	ug/L	+/- 10.00%
	Beryllium	5000	4910	98.1	ug/L	+/- 10.00%
	Cadmium	5000	5010	100	ug/L	+/- 10.00%
	Calcium	5000	4900	98.1	ug/L	+/- 10.00%
	Chromium	5000	4980	99.5	ug/L	+/- 10.00%
	Cobalt	5000	4950	99.0	ug/L	+/- 10.00%
	Copper	5000	4960	99.3	ug/L	+/- 10.00%
	Iron	5000	4880	97.5	ug/L	+/- 10.00%
	Lead	5000	5040	101	ug/L	+/- 10.00%

Accredited Analytical Resources, LLC.

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323
Sequence: S5L2802
Instrument Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S5L2802-CCV2	Magnesium	5000	4920	98.3	ug/L	+/- 10.00%
	Manganese	5000	5000	100	ug/L	+/- 10.00%
	Nickel	5000	5010	100	ug/L	+/- 10.00%
	Potassium	5000	4810	96.2	ug/L	+/- 10.00%
	Selenium	5000	5020	100	ug/L	+/- 10.00%
	Silver	500	486	97.1	ug/L	+/- 10.00%
	Sodium	5000	4860	97.1	ug/L	+/- 10.00%
	Thallium	5000	5010	100	ug/L	+/- 10.00%
	Vanadium	5000	4910	98.1	ug/L	+/- 10.00%
	Zinc	5000	4980	99.6	ug/L	+/- 10.00%

BLANKS

EPA 7471

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323
Sequence: S5L2403
Instrument Cetac

Lab Sample ID	Analyte	Found	Units	RL	Q
S5L2403-ICB1	Mercury	0.00300	ug/L	0.300	U
B5L2401-BLK1	Mercury	ND	mg/kg wet	0.0750	U
S5L2403-CCB1	Mercury	0.00500	ug/L	0.300	U

Accredited Analytical Resources, LLC.

BLANKS

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323
Sequence: S5L2802
Instrument Thermo iTEVA

Lab Sample ID	Analyte	Found	Units	RL	Q
S5L2802-ICB1	Aluminum	4.32	ug/L	400	U
	Antimony	-0.464	ug/L	80.0	U
	Arsenic	0.870	ug/L	20.0	U
	Barium	-0.00550	ug/L	400	U
	Beryllium	-0.0115	ug/L	10.0	U
	Cadmium	-0.0498	ug/L	10.0	U
	Calcium	1.56	ug/L	500	U
	Chromium	-0.268	ug/L	40.0	U
	Cobalt	0.274	ug/L	100	U
	Copper	3.71	ug/L	60.0	U
	Iron	-1.54	ug/L	500	U
	Lead	-0.0685	ug/L	20.0	U
	Magnesium	9.74	ug/L	1000	U
	Manganese	0.778	ug/L	40.0	U
	Nickel	-0.489	ug/L	80.0	U
	Potassium	2.28	ug/L	1000	U
	Selenium	0.817	ug/L	80.0	U
	Silver	-0.292	ug/L	10.0	U
	Sodium	-6.81	ug/L	1000	U
	Thallium	0.215	ug/L	60.0	U
	Vanadium	-0.644	ug/L	100	U
	Zinc	0.0188	ug/L	120	U
B5L2404-BLK1	Aluminum	ND	mg/kg wet	20.0	U
	Antimony	ND	mg/kg wet	4.00	U
	Arsenic	ND	mg/kg wet	1.00	U
	Barium	ND	mg/kg wet	20.0	U
	Beryllium	ND	mg/kg wet	0.500	U

Accredited Analytical Resources, LLC.

BLANKS

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323
Sequence: S5L2802
Instrument Thermo iTEVA

Lab Sample ID	Analyte	Found	Units	RL	Q
B5L2404-BLK1	Cadmium	ND	mg/kg wet	0.500	U
	Calcium	ND	mg/kg wet	25.0	U
	Chromium	ND	mg/kg wet	2.00	U
	Cobalt	ND	mg/kg wet	5.00	U
	Copper	ND	mg/kg wet	3.00	U
	Iron	ND	mg/kg wet	25.0	U
	Lead	ND	mg/kg wet	1.00	U
	Magnesium	ND	mg/kg wet	50.0	U
	Manganese	ND	mg/kg wet	2.00	U
	Nickel	ND	mg/kg wet	4.00	U
	Potassium	ND	mg/kg wet	50.0	U
	Selenium	ND	mg/kg wet	4.00	U
	Silver	ND	mg/kg wet	0.500	U
	Sodium	ND	mg/kg wet	50.0	U
	Thallium	ND	mg/kg wet	3.00	U
	Vanadium	ND	mg/kg wet	5.00	U
	Zinc	ND	mg/kg wet	6.00	U
S5L2802-CCB1	Aluminum	10.7	ug/L	400	U
	Antimony	-0.540	ug/L	80.0	U
	Arsenic	-0.389	ug/L	20.0	U
	Barium	-0.0540	ug/L	400	U
	Beryllium	0.192	ug/L	10.0	U
	Cadmium	-0.187	ug/L	10.0	U
	Calcium	-2.53	ug/L	500	U
	Chromium	-0.275	ug/L	40.0	U
	Cobalt	-0.137	ug/L	100	U
	Copper	1.98	ug/L	60.0	U

Accredited Analytical Resources, LLC.

BLANKS

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323
Sequence: S5L2802
Instrument Thermo iTEVA

Lab Sample ID	Analyte	Found	Units	RL	Q
S5L2802-CCB1	Iron	-1.76	ug/L	500	U
	Lead	-0.847	ug/L	20.0	U
	Magnesium	-2.43	ug/L	1000	U
	Manganese	0.564	ug/L	40.0	U
	Nickel	-0.487	ug/L	80.0	U
	Potassium	-17.6	ug/L	1000	U
	Selenium	-0.348	ug/L	80.0	U
	Silver	-0.136	ug/L	10.0	U
	Sodium	-5.26	ug/L	1000	U
	Thallium	-2.45	ug/L	60.0	U
	Vanadium	0.0414	ug/L	100	U
	Zinc	0.00650	ug/L	120	U
S5L2802-CCB2	Aluminum	1.37	ug/L	400	U
	Antimony	0.432	ug/L	80.0	U
	Arsenic	-0.730	ug/L	20.0	U
	Barium	-0.00290	ug/L	400	U
	Beryllium	0.139	ug/L	10.0	U
	Cadmium	-0.0513	ug/L	10.0	U
	Calcium	-0.673	ug/L	500	U
	Chromium	-0.221	ug/L	40.0	U
	Cobalt	0.0907	ug/L	100	U
	Copper	1.54	ug/L	60.0	U
	Iron	-1.45	ug/L	500	U
	Lead	-0.431	ug/L	20.0	U
	Magnesium	11.8	ug/L	1000	U
	Manganese	0.102	ug/L	40.0	U
	Nickel	-0.543	ug/L	80.0	U

Accredited Analytical Resources, LLC.

BLANKS

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323
Sequence: S5L2802
Instrument Thermo iTEVA

Lab Sample ID	Analyte	Found	Units	RL	Q
S5L2802-CCB2	Potassium	1.85	ug/L	1000	U
	Selenium	1.42	ug/L	80.0	U
	Silver	-0.156	ug/L	10.0	U
	Sodium	18.6	ug/L	1000	U
	Thallium	-3.43	ug/L	60.0	U
	Vanadium	1.87	ug/L	100	U
	Zinc	0.0337	ug/L	120	U

Accredited Analytical Resources, LLC.

CRDL STANDARD

EPA 7471

Client:	**BRINKERHOFF ENVIRONMENTAL**	**Calibration:**	UNASSIGNED
Project:	**255 East 138th Street, Bronx, NY**	**Sequence:**	S5L2403
Work Order:	**1502323**	**Instrument**	Cetac

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S5L2403-CRL1	Mercury	0.0750	0.0840	112	ug/L	70 - 130
S5L2403-CRL2	Mercury	0.0750	0.0800	107	ug/L	70 - 130

Accredited Analytical Resources, LLC.

CRDL STANDARD

EPA 6010

Client:	**BRINKERHOFF ENVIRONMENTAL**	**Calibration:**	UNASSIGNED
Project:	**255 East 138th Street, Bronx, NY**	**Sequence:**	S5L2802
Work Order:	**1502323**	**Instrument**	Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S5L2802-CRL1	Aluminum	400	408	102	ug/L	70 - 130
	Antimony	80.0	77.7	97.2	ug/L	70 - 130
	Arsenic	20.0	20.7	104	ug/L	70 - 130
	Barium	400	400	100	ug/L	70 - 130
	Beryllium	10.0	10.0	100	ug/L	70 - 130
	Cadmium	10.0	10.2	102	ug/L	70 - 130
	Calcium	1000	1030	103	ug/L	70 - 130
	Chromium	40.0	39.5	98.8	ug/L	70 - 130
	Cobalt	100	99.8	99.8	ug/L	70 - 130
	Copper	60.0	62.0	103	ug/L	70 - 130
	Iron	500	508	102	ug/L	70 - 130
	Lead	20.0	20.7	103	ug/L	70 - 130
	Magnesium	1000	993	99.3	ug/L	70 - 130
	Manganese	40.0	41.3	103	ug/L	70 - 130
	Nickel	80.0	82.0	102	ug/L	70 - 130
	Potassium	1000	983	98.3	ug/L	70 - 130
	Selenium	80.0	85.1	106	ug/L	70 - 130
	Silver	10.0	10.2	102	ug/L	70 - 130
	Sodium	1000	976	97.6	ug/L	70 - 130
	Thallium	30.0	27.2	90.7	ug/L	70 - 130
	Vanadium	100	102	102	ug/L	70 - 130
	Zinc	120	121	101	ug/L	70 - 130
S5L2802-CRL2	Aluminum	400	418	105	ug/L	70 - 130
	Antimony	80.0	78.7	98.3	ug/L	70 - 130
	Arsenic	20.0	19.4	97.2	ug/L	70 - 130
	Barium	400	411	103	ug/L	70 - 130

Accredited Analytical Resources, LLC.

CRDL STANDARD

EPA 6010

Client:	**BRINKERHOFF ENVIRONMENTAL**	**Calibration:**	UNASSIGNED
Project:	**255 East 138th Street, Bronx, NY**	**Sequence:**	S5L2802
Work Order:	**1502323**	**Instrument**	Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S5L2802-CRL2	Beryllium	10.0	9.98	99.8	ug/L	70 - 130
	Cadmium	10.0	10.1	101	ug/L	70 - 130
	Calcium	1000	1030	103	ug/L	70 - 130
	Chromium	40.0	38.8	97.1	ug/L	70 - 130
	Cobalt	100	100	100	ug/L	70 - 130
	Copper	60.0	62.0	103	ug/L	70 - 130
	Iron	500	519	104	ug/L	70 - 130
	Lead	20.0	20.9	105	ug/L	70 - 130
	Magnesium	1000	988	98.8	ug/L	70 - 130
	Manganese	40.0	41.7	104	ug/L	70 - 130
	Nickel	80.0	82.7	103	ug/L	70 - 130
	Potassium	1000	982	98.2	ug/L	70 - 130
	Selenium	80.0	82.3	103	ug/L	70 - 130
	Silver	10.0	10.2	102	ug/L	70 - 130
	Sodium	1000	990	99.0	ug/L	70 - 130
	Thallium	30.0	25.0	83.5	ug/L	70 - 130
	Vanadium	100	102	102	ug/L	70 - 130
	Zinc	120	121	101	ug/L	70 - 130

SERIAL DILUTION

EPA 6010

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1502323
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street, Bronx, NY
Matrix:	Solid	Laboratory ID:	S5L2802-SRD1
Sequence:	S5L2802	Source:	ZZZZZZZ

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Lead	14.2	13.6	4.35		10.00
Antimony	ND	ND	N/A		10.00
Arsenic	1.23	ND	N/A		10.00
Barium	ND	ND	N/A		10.00
Beryllium	ND	ND	N/A		10.00
Cadmium	ND	ND	N/A		10.00
Calcium	2350	2230	5.35		10.00
Chromium	5.58	ND	N/A		10.00
Cobalt	ND	ND	N/A		10.00
Aluminum	1510	1400	7.54		10.00
Iron	3080	2930	5.01		10.00
Zinc	22.8	ND	N/A		10.00
Magnesium	255	ND	N/A		10.00
Manganese	13.4	12.7	5.36		10.00
Nickel	ND	ND	N/A		10.00
Potassium	139	ND	N/A		10.00
Selenium	ND	ND	N/A		10.00
Silver	ND	ND	N/A		10.00
Sodium	ND	ND	N/A		10.00
Thallium	ND	ND	N/A		10.00
Vanadium	ND	ND	N/A		10.00
Copper	6.66	ND	N/A		10.00

* Values outside of QC limits

Accredited Analytical Resources, LLC.

INTERFERENCE CHECK SAMPLE

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Calibration: UNASSIGNED
Sequence: S5L2802
Instrument Thermo iTEVA

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S5L2802-IFA1	Aluminum	20.00	250000	251,100.00	100	ug/L
	Antimony	4.00		3.68		ug/L
	Arsenic	1.00		3.95		ug/L
	Barium	20.00		0.41		ug/L
	Beryllium	0.50		0.65		ug/L
	Cadmium	0.50		-0.49		ug/L
	Calcium	25.00	250000	241,400.00	96.6	ug/L
	Chromium	2.00		-0.33		ug/L
	Cobalt	5.00		0.47		ug/L
	Copper	3.00		1.82		ug/L
	Iron	25.00	100000	97,530.00	97.5	ug/L
	Lead	1.00		1.81		ug/L
	Magnesium	50.00	250000	256,600.00	103	ug/L
	Manganese	2.00		-1.54		ug/L
	Nickel	4.00		-1.86		ug/L
	Potassium	50.00		-4.77		ug/L
	Selenium	4.00		1.41		ug/L
	Silver	0.50		0.53		ug/L
	Sodium	50.00		-5.18		ug/L
	Thallium	3.00		-3.27		ug/L
	Vanadium	5.00		-2.79		ug/L
	Zinc	6.00		2.43		ug/L
S5L2802-IFB1	Aluminum	20.00	250000	251,600.00	101	ug/L
	Antimony	4.00	250	252.10	101	ug/L
	Arsenic	1.00	250	257.20	103	ug/L
	Barium	20.00	250	257.60	103	ug/L
	Beryllium	0.50	250	256.50	103	ug/L
	Cadmium	0.50	250	242.60	97.0	ug/L

Accredited Analytical Resources, LLC.

INTERFERENCE CHECK SAMPLE

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Calibration: UNASSIGNED
Sequence: S5L2802
Instrument Thermo iTEVA

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S5L2802-IFB1	Calcium	25.00	250000	238,400.00	95.4	ug/L
	Chromium	2.00	250	247.20	98.9	ug/L
	Cobalt	5.00	250	235.00	94.0	ug/L
	Copper	3.00	250	261.40	105	ug/L
	Iron	25.00	100000	96,840.00	96.8	ug/L
	Lead	1.00	250	229.00	91.6	ug/L
	Magnesium	50.00	250000	254,300.00	102	ug/L
	Manganese	2.00	250	247.30	98.9	ug/L
	Nickel	4.00	250	231.30	92.5	ug/L
	Potassium	50.00	1000	1,046.00	105	ug/L
	Selenium	4.00	250	237.40	95.0	ug/L
	Silver	0.50	240	242.40	101	ug/L
	Sodium	50.00	1000	1,023.00	102	ug/L
	Thallium	3.00	250	207.60	83.0	ug/L
	Vanadium	5.00	250	256.20	102	ug/L
	Zinc	6.00	250	243.40	97.4	ug/L
S5L2802-IFA2	Aluminum	20.00	250000	252,200.00	101	ug/L
	Antimony	4.00		2.25		ug/L
	Arsenic	1.00		3.76		ug/L
	Barium	20.00		0.43		ug/L
	Beryllium	0.50		0.55		ug/L
	Cadmium	0.50		-0.86		ug/L
	Calcium	25.00	250000	242,300.00	96.9	ug/L
	Chromium	2.00		-0.74		ug/L
	Cobalt	5.00		0.48		ug/L
	Copper	3.00		-1.11		ug/L
	Iron	25.00	100000	97,860.00	97.9	ug/L
	Lead	1.00		2.92		ug/L

Accredited Analytical Resources, LLC.

INTERFERENCE CHECK SAMPLE

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Calibration: UNASSIGNED
Sequence: S5L2802
Instrument Thermo iTEVA

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S5L2802-IFA2	Magnesium	50.00	250000	255,700.00	102	ug/L
	Manganese	2.00		-1.44		ug/L
	Nickel	4.00		-1.61		ug/L
	Potassium	50.00		-8.86		ug/L
	Selenium	4.00		-1.67		ug/L
	Silver	0.50		0.64		ug/L
	Sodium	50.00		36.11		ug/L
	Thallium	3.00		-3.52		ug/L
	Vanadium	5.00		2.12		ug/L
	Zinc	6.00		2.12		ug/L
S5L2802-IFB2	Aluminum	20.00	250000	250,300.00	100	ug/L
	Antimony	4.00	250	246.80	98.7	ug/L
	Arsenic	1.00	250	260.20	104	ug/L
	Barium	20.00	250	257.20	103	ug/L
	Beryllium	0.50	250	256.30	103	ug/L
	Cadmium	0.50	250	244.70	97.9	ug/L
	Calcium	25.00	250000	241,100.00	96.4	ug/L
	Chromium	2.00	250	250.60	100	ug/L
	Cobalt	5.00	250	235.90	94.4	ug/L
	Copper	3.00	250	260.80	104	ug/L
	Iron	25.00	100000	96,850.00	96.8	ug/L
	Lead	1.00	250	230.90	92.4	ug/L
	Magnesium	50.00	250000	254,400.00	102	ug/L
	Manganese	2.00	250	249.30	99.7	ug/L
	Nickel	4.00	250	232.70	93.1	ug/L
	Potassium	50.00	1000	1,008.00	101	ug/L
	Selenium	4.00	250	239.00	95.6	ug/L
	Silver	0.50	240	242.00	101	ug/L

Accredited Analytical Resources, LLC.

INTERFERENCE CHECK SAMPLE

EPA 6010

Client:	BRINKERHOFF ENVIRONMENTAL	**Calibration:**	UNASSIGNED
Project:	255 East 138th Street, Bronx, NY	**Sequence:**	S5L2802
Work Order:	1502323	**Instrument**	Thermo iTEVA

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S5L2802-IFB2	Sodium	50.00	1000	1,070.00	107	ug/L
	Thallium	3.00	250	209.90	84.0	ug/L
	Vanadium	5.00	250	256.40	103	ug/L
	Zinc	6.00	250	246.50	98.6	ug/L

Accredited Analytical Resources, LLC.

WET CHEMISTRY

Accredited Analytical Resources, LLC.

WET CHEMISTRY SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-18
Lab Sample ID: 1502323-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Matrix:	Soil
Percent Solids:	71.30	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	16.1	2.00	2.00	1		12/28/15 08:56	[CALC]	12/29/15 16:01 HTW	[CALC]
1854-02-99	Chromium, Hexava	ND	2.81	2.81	1	U	12/28/15 08:56	SW 846 3060A	12/29/15 16:01 HTW	EPA 7196A
NA	Cyanide (total)	ND	1.40	1.40	1	U	12/28/15 08:20	EPA 9010C	12/28/15 11:54 RMK	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	71.3	0.100	0.100	1		12/28/15 10:00	Percent Solids	12/28/15 13:59 CLD	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

WET CHEMISTRY QC DATA

Accredited Analytical Resources, LLC.

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 9014

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323
Sequence: S5L2807
Instrument Hach

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S5L2807-CCV1	Cyanide (total)	0.200	0.206	103	mg/L	+/- 10.00%
S5L2807-ICV1	Cyanide (total)	0.100	0.0987	98.7	mg/L	+/- 10.00%

Accredited Analytical Resources, LLC.

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 7196A

Client:	**BRINKERHOFF ENVIRONMENTAL**		
Project:	**255 East 138th Street, Bronx, NY**	**Sequence:**	S5L2916
Work Order:	**1502323**	**Instrument**	Hach

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S5L2916-CCV1	Chromium, Hexavalent	1.00	0.966	96.6	mg/L	+/- 10.00%
S5L2916-ICV1	Chromium, Hexavalent	1.00	0.963	96.3	mg/L	+/- 10.00%

BLANKS

EPA 9014

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323
Sequence: S5L2807
Instrument Hach

Lab Sample ID	Analyte	Found	Units	RL	Q
B5L2803-BLK1	Cyanide (total)	ND	mg/kg wet	1.00	U
S5L2807-CCB1	Cyanide (total)	-0.000541	mg/L	0.00500	U
S5L2807-ICB1	Cyanide (total)	-0.000541	mg/L	0.00500	U

BLANKS

EPA 7196A

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323
Sequence: S5L2916
Instrument Hach

Lab Sample ID	Analyte	Found	Units	RL	Q
B5L2804-BLK1	Chromium, Hexavalent	ND	mg/kg wet	2.00	U
S5L2916-CCB1	Chromium, Hexavalent	0.0101	mg/L	0.0500	U
S5L2916-ICB1	Chromium, Hexavalent	0.0101	mg/L	0.0500	U

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Analysis:	EPA 9014
Batch:	B5L2803	Preparation:	EPA 9010C
% Solids:	93.00	Laboratory ID:	B5L2803-MS1
		Client Sample ID:	1502322-02

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC.	QC LIMITS REC.
Cyanide (total)	43.0	ND	43.9	102	75 - 125

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Cyanide (total)	43.0	46.4	108	5.58	20	75 - 125

* Values outside of QC limits

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Analysis:	EPA 7196A
Batch:	B5L2804	Preparation:	SW 846 3060A
% Solids:	81.20	Laboratory ID:	B5L2804-MS1
		Client Sample ID:	1502312-01

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)		MS % REC.		QC LIMITS REC.
Chromium, Hexavalent	49.3	ND	13.7	*	27.8	*	75 - 125

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Analysis:	EPA 7196A
Batch:	B5L2804	Preparation:	SW 846 3060A
% Solids:	81.20	Laboratory ID:	B5L2804-MS2
		Client Sample ID:	1502312-01

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC.	QC LIMITS REC.
Chromium, Hexavalent	983	ND	898	91.3	75 - 125

* Values outside of QC limits

Accredited Analytical Resources, LLC.

DUPLICATES

Duplicate

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Matrix:	Solid	Laboratory ID:	B5L2803-DUP1
Prep Batch:	B5L2803	Initial/Final:	1 g / 200 mL
Prep Method:	EPA 9010C	Analysis:	EPA 9014
% Solids:	93.00		

ANALYTE	SAMPLE CONCENTRATION (mg/kg dry)	DUPLICATE CONCENTRATION (mg/kg dry)	RPD %	Q	CONTROL LIMIT
Cyanide (total)	ND	1.08 U			20

* Values outside of QC limits

Accredited Analytical Resources, LLC.

DUPLICATES

Duplicate

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Matrix:	Solid	Laboratory ID:	B5L2804-DUP1
Prep Batch:	B5L2804	Initial/Final:	2.5 g / 100 mL
Prep Method:	SW 846 3060A	Analysis:	EPA 7196A
% Solids:	81.20		

ANALYTE	SAMPLE CONCENTRATION (mg/kg dry)	DUPLICATE CONCENTRATION (mg/kg dry)	RPD %	Q	CONTROL LIMIT
Chromium, Hexavalent	ND	2.46 U			20

* Values outside of QC limits

Accredited Analytical Resources, LLC.

DUPLICATES

Duplicate

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Matrix:	Solid	Laboratory ID:	B5L2807-DUP1
Prep Batch:	B5L2807	Initial/Final:	10 g / 10 g
Prep Method:	Percent Solids	Analysis:	SM 2540 G
% Solids:	93.00		

ANALYTE	SAMPLE CONCENTRATION (%)	DUPLICATE CONCENTRATION (%)	RPD %	Q	CONTROL LIMIT
Percent Solids	93.0	93.0	0.00		20

* Values outside of QC limits

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 9014

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Matrix:	Solid	Prep Method:	EPA 9010C
Prep Batch:	B5L2803	Lab Sample ID:	B5L2803-BS1

ANALYTE	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC.	QC LIMITS REC.
Cyanide (total)	40.0	45.5	114	85 - 115

* Values outside of QC limits

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 7196A

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Matrix:	Solid	Prep Method:	SW 846 3060A
Prep Batch:	B5L2804	Lab Sample ID:	B5L2804-BS1

ANALYTE	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC.	QC LIMITS REC.
Chromium, Hexavalent	40.0	36.1	90.3	80 - 120

* Values outside of QC limits

POST DIGEST SPIKE SAMPLE RECOVERY

1502312-01

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1502323
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street, Bronx, NY
Matrix:	Solid	Laboratory ID:	B5L2804-PS1
Batch:	B5L2804	Analysis:	EPA 7196A
Preparation:	SW 846 3060A	Initial/Final:	2.5 g / 100 mL

Analyte	Spike Sample Result (SSR) (mg/L)	Sample Result (SR) (mg/L)	Spike Added (SA) (mg/L)	%R	Control Limit %R
Chromium, Hexavalent	0.243	ND	1.00	23.2	85 - 115

Accredited Analytical Resources, LLC.

WET CHEMISTRY

RAW DATA

PROJECT Cr6 - soil

Notebook No. 953
Continued from Page ____

1ppm = 1ml of 100ppm → 100ml w/ DI H2O
10ppm = 10ml of 100ppm → 100ml w/ DI H2O

	ml of 10ppm	ml of 1ppm	conc (ppm)
B	—	0	0.00
1	—	1	0.02
2	1	—	0.20
3	2.5	—	0.50
4	5	—	1.00
5	10	—	2.00

Wavelength = 540

INITIAL TEMP = 91°C
Mid TEMP = 90°C
FINAL Temp = 90°C

pH digestion soln = 13.04
Start digestion = 1030 12/28
End digestion = 1130 12/28
Start pH HNO3 = 1130 12/29
End pH HNO3 = 1300 12/29
Start pH H2SO4 = 1500 12/29
End pH H2SO4 = 1550 12/29
Time of Analysis = 1601 12/29

Color reagent AAA B11P689
1000 ppm Cr6 std AAA B11P29A
1000 ppm Cr6 ICV AAA B11P29B
100 ppm Cr6 std = 10ml of 1000ppm → 100ml
pbl/cy sigma 23184606
Digestion soln AAA B11P71A
Magnesium Chloride Baker 113644
phosphate Buffer AAA B10P803

SAMPLE	wt g
MB	2.5
LCS	↓
1502312-01	↓
1502312-01 dup	↓
1502312-01 ms	↓
1502312-01 INS	↓
1502312-01 P	↓
1502312-02	↓
1502312-03	↓
1502323-01	↓

Continued on Page

Signed [signature] Date 12/29/15
Read and Understood By
Signed R Kopken Date 12/29/15

PROJECT Cr6-soil

Notebook No. 953 | 7

Continued from Page ______

SAMPLE	pH HNO_3	pH H_2SO_4	BG H_2SO_4	ABS	BG ABS	Corr ABS	Dil	
0.00 ppm		<2		0.001			1	
0.02 ppm				0.044				
0.20 ppm				0.381				
0.50 ppm				1.018				Curve
1.00 ppm				1.905				5SL2914
2.00 ppm				4.081				1SL2903
ICV				1.935				
ICB				0.001				
MB	7.79	2.02	1.95	0.004	0.003	0.001		
LCS	7.70	2.03	1.99	1.824	0.011	1.813		
1502312-01	7.88	1.98	2.02	0.011	0.008	0.003		BSL2804
1502312-01 dup	7.55	1.96	1.90	0.023	0.021	0.002		5SL2916
1502312-01 MS	7.26	1.98	1.97	0.560	0.015	0.545		
1502312-01 MSD	7.91	1.97	1.97	1.832	0.003	1.829	20	
1502312-01 P	7.99	1.98	1.92	0.487	0.013	0.474	1	
1502312-02	7.64	1.91	1.97	0.026	0.023	0.003		
1502312-03	7.85	1.98	2.01	0.012	0.010	0.002		
1502323-01	7.31	1.95	1.96	0.173	0.164	0.009		
CCV		<2		1.940				
CCB				0.001				

Continued on Page

Read and Understood By

Signed 12/29/15 Date

Signed 12/29/15 Date

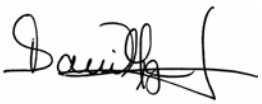
Accredited Analytical Resources, LLC.

30 December 2015 AAR Work Order: 1502323

Doug Harm
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736
Project: 255 East 138th Street, Bronx, NY

Enclosed are the results of analyses for samples received by the laboratory on 12/23/2015 12:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	12/30/2015 14:23

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-18	1502323-01	Soil	12/23/2015 10:10	12/23/2015 12:00

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
E	Concentration exceeds calibration range
B	Indicates compound found in associated blank
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	12/30/2015 14:23

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

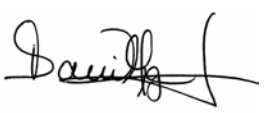
Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources LLC



Daniel Miguel, Technical Director

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Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	12/30/2015 14:23

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Doug Harm

Reported:
12/30/2015 14:23

Client ID: EP-18

Lab ID: 1502323-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	8.42	14.0	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.81	14.0	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
67-64-1	**Acetone**	**20.8**	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	
75-71-8	Dichlorodifluoromethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
78-93-3	2-Butanone	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
71-43-2	Benzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Doug Harm

Reported:
12/30/2015 14:23

Client ID: EP-18

Lab ID: 1502323-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
108-88-3	Toluene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	2.81	5.61	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
95-47-6	o-Xylene	ND	2.81	5.61	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
100-42-5	Styrene	ND	1.40	5.61	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Doug Harm

Reported:
12/30/2015 14:23

Client ID: EP-18

Lab ID: 1502323-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
					Accredited Analytical Resources LLC					
Volatile Organic Compounds EPA Method SW846 8260										
95-63-6	1,2,4-Trimethylbenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
99-87-6	**p-Isopropyltoluene**	**1.73**	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	J
541-73-1	1,3-Dichlorobenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*111 %*	*70-130*		*12/23/15 23:47*	*12/23/15 23:47/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*99 %*	*70-130*		*12/23/15 23:47*	*12/23/15 23:47/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*79 %*	*70-130*		*12/23/15 23:47*	*12/23/15 23:47/SG*	*EPA 8260*	
Semivolatile Organic Compounds EPA Method SW846 8270										
Sample Prepared by Method:EPA 3550B GCMS										
62-75-9	N-Nitrosodimethylamine	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
108-95-2	Phenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Doug Harm

Reported:
12/30/2015 14:23

Client ID: EP-18

Lab ID: 1502323-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
78-59-1	Isophorone	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	116	467	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	46.7	467	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U

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1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Doug Harm

Reported:
12/30/2015 14:23

Client ID: EP-18

Lab ID: 1502323-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7005-72-3	4-Chlorophenyl-phenylether	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
86-73-7	Fluorene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**462**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	
120-12-7	**Anthracene**	**81.8**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	J
84-74-2	Di-n-butyl phthalate	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**581**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	
129-00-0	**Pyrene**	**531**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	
85-68-7	Butylbenzylphthalate	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	116	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**238**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	
117-81-7	bis(2-ethylhexyl)phthalate	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
218-01-9	**Chrysene**	**285**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	
117-84-0	Di-n-octyl phthalate	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
205-99-2	**Benzo[b]fluoranthene**	**223**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	J
207-08-9	**Benzo[k]fluoranthene**	**200**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	J
50-32-8	**Benzo[a]pyrene**	**219**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	J
193-39-5	**Indeno(1,2,3-cd)pyrene**	**113**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	J
53-70-3	**Dibenzo(a,h)anthracene**	**47.7**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	J
191-24-2	**Benzo[ghi]perylene**	**115**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	J
Surrogate: 2-Fluorophenol				*57 %*	*30-130*		*12/24/15 07:52*	*12/28/15 15:48/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*66 %*	*30-130*		*12/24/15 07:52*	*12/28/15 15:48/JMM*	*EPA 8270*	

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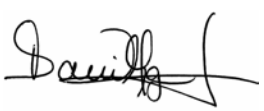

Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
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Project: 255 East 138th Street, Bronx, NY
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Reported:
12/30/2015 14:23

Client ID: EP-18

Lab ID: 1502323-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

Surrogate: Nitrobenzene-d5			*64 %*	*30-130*		*12/24/15 07:52*	*12/28/15 15:48/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl			*62 %*	*30-130*		*12/24/15 07:52*	*12/28/15 15:48/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol			*85 %*	*30-130*		*12/24/15 07:52*	*12/28/15 15:48/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14			*83 %*	*30-130*		*12/24/15 07:52*	*12/28/15 15:48/JMM*	*EPA 8270*	

EPA Method SW846 8081/8082

Sample Prepared by Method:EPA 3550B

319-84-6	alpha-BHC	ND	0.926	0.926	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.926	0.926	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.926	0.926	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.926	0.926	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.926	0.926	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.926	0.926	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.926	0.926	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.926	0.926	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.87	1.87	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.87	1.87	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.87	1.87	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.87	1.87	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.87	1.87	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.87	1.87	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.87	1.87	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	2.81	9.34	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.87	1.87	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.87	1.87	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.926	0.926	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.926	0.926	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	46.7	46.7	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	23.3	46.7	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Doug Harm

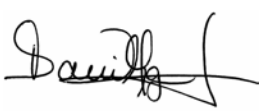
Reported:
12/30/2015 14:23

Client ID: EP-18

Lab ID: 1502323-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
				Accredited Analytical Resources LLC						
EPA Method SW846 8081/8082										
11104-28-2	Aroclor-1221	ND	23.3	46.7	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	23.3	46.7	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	23.3	46.7	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	23.3	46.7	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	23.3	46.7	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	23.3	46.7	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	23.3	46.7	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	23.3	46.7	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*63.5 %*	*30-150*		*12/24/15 07:49*	*12/28/15 14:44/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*56.6 %*	*30-150*		*12/24/15 07:49*	*12/28/15 14:44/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*54.9 %*	*30-150*		*12/24/15 07:49*	*12/28/15 14:44/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*65.1 %*	*30-150*		*12/24/15 07:49*	*12/28/15 14:44/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**7830**	28.1	28.1	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7440-36-0	Antimony	ND	5.61	5.61	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.77**	1.40	1.40	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7440-39-3	**Barium**	**60.3**	28.1	28.1	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.701	0.701	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.701	0.701	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	U
7440-70-2	**Calcium**	**12900**	35.1	35.1	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7440-47-3	**Chromium**	**16.1**	2.81	2.81	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7440-48-4	Cobalt	ND	7.01	7.01	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	U
7440-50-8	**Copper**	**24.4**	4.21	4.21	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7439-89-6	**Iron**	**13800**	35.1	35.1	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7439-92-1	**Lead**	**48.5**	1.40	1.40	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7439-95-4	**Magnesium**	**8720**	70.1	70.1	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	

Accredited Analytical Resources LLC



Daniel Miguel, Technical Director

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Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Doug Harm

Reported:
12/30/2015 14:23

Client ID: EP-18

Lab ID: 1502323-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
				Accredited Analytical Resources LLC						
Total Metals by EPA Method SW846 6010										
7439-96-5	**Manganese**	**319**	2.81	2.81	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7440-02-0	**Nickel**	**10.5**	5.61	5.61	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7440-09-7	**Potassium**	**1640**	70.1	70.1	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7782-49-2	Selenium	ND	5.61	5.61	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.701	0.701	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	U
7440-23-5	**Sodium**	**209**	70.1	70.1	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.10	4.21	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**22.0**	7.01	7.01	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7440-66-6	**Zinc**	**64.4**	8.42	8.42	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	**Mercury**	**0.108**	0.105	0.105	mg/kg dry	1	12/24/15 07:47	12/24/15 11:01/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:[CALC]										
16065-83-1	**Trivalent Chromium**	**16.1**	2.00	2.00	mg/kg dry	1	12/28/15 08:56	12/29/15 16:01/HTW	[CALC]	
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.40	1.40	mg/kg dry	1	12/28/15 08:20	12/28/15 11:54/RMK	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**71.3**	0.100	0.100	%	1	12/28/15 10:00	12/28/15 13:59/CLD	SM 2540 G	
Sample Prepared by Method:SW 846 3060A										
1854-02-99	Chromium, Hexavalent	ND	2.81	2.81	mg/kg dry	1	12/28/15 08:56	12/29/15 16:01/HTW	EPA 7196A	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 E. 138th Street, Bronx, NY
CONTACT:	Doug Harm + Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm + Sean Harrison
EMAIL FOR INVOICE:	dharm@brinkenv + sharrison@brinkenv

CLIENT NAME:	Brinkerhoff Environmental Services, Inc.
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan.
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1502323
P.O. #	10BR188

ANALYSIS

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	PRES. CODE → / CONT. CODE → TAL Full	TCL Full	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-18	12/23/15 10:10	S		4	G	X	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER_____
CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER_____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD	5 DAY	72 HRS.	48 HRS.	24 HRS.	OTHER 1 Week
	(IF BLANK STANDARD WILL APPLY)					
REPORT TYPE:	RESULTS ONLY ____	REDUCED ____	FULL X	EDD ____	EXCEL SPREADSHEET ____	

COMMENTS: Category B data deliverable. Hard copy by January 13th 2015 NYSDEC
COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY. CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: K. Muniz	Print Name:	Print Name:
Signature: Monica Norton	Signature: K. Muniz	Signature:	Signature:
Agent of:	Agent of: AAR	Agent of:	Agent of:
Date Received: 12/23/15	Time: 1200	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

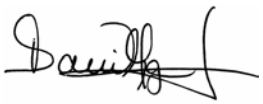
Accredited Analytical Resources, LLC.

11 January 2016 AAR Work Order: 1502333

Doug Harm
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736
Project: 255 East 138th Street, Bronx, NY

Enclosed are the results of analyses for samples received by the laboratory on 12/28/2015 12:57. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Doug Harm

Reported:
01/11/2016 15:15

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-19	1502333-01	Soil	12/28/2015 09:05	12/28/2015 12:57

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	01/11/2016 15:15

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

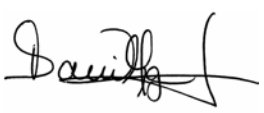
Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources LLC



Daniel Miguel, Technical Director

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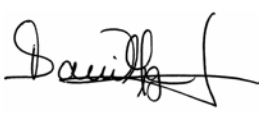
Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	01/11/2016 15:15

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources LLC



Daniel Miguel, Technical Director

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Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Doug Harm

Reported:
01/11/2016 15:15

Client ID: EP-19

Lab ID: 1502333-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	10.8	18.1	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	3.62	18.1	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
67-64-1	**Acetone**	**9.22**	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	
75-71-8	Dichlorodifluoromethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
78-93-3	2-Butanone	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
71-43-2	Benzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Doug Harm

Reported:
01/11/2016 15:15

Client ID: EP-19

Lab ID: 1502333-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
108-88-3	Toluene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	3.62	7.23	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
95-47-6	o-Xylene	ND	3.62	7.23	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
100-42-5	Styrene	ND	1.81	7.23	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U

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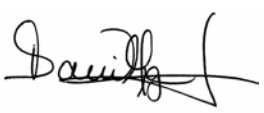

Daniel Miguel, Technical Director

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Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Doug Harm

Reported:
01/11/2016 15:15

Client ID: EP-19

Lab ID: 1502333-01 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Volatile Organic Compounds EPA Method SW846 8260										
95-63-6	1,2,4-Trimethylbenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*109 %*	*70-130*		*12/28/15 18:46*	*12/28/15 18:46/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*102 %*	*70-130*		*12/28/15 18:46*	*12/28/15 18:46/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*87 %*	*70-130*		*12/28/15 18:46*	*12/28/15 18:46/SG*	*EPA 8260*	
Semivolatile Organic Compounds EPA Method SW846 8270										
Sample Prepared by Method:EPA 3550B GCMS										
62-75-9	N-Nitrosodimethylamine	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
108-95-2	Phenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U

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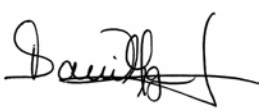

Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Doug Harm

Reported:
01/11/2016 15:15

Client ID: EP-19

Lab ID: 1502333-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
78-59-1	Isophorone	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	105	422	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	42.2	422	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U

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1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Doug Harm

Reported:
01/11/2016 15:15

Client ID: EP-19

Lab ID: 1502333-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7005-72-3	4-Chlorophenyl-phenylether	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
86-73-7	Fluorene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
85-01-8	Phenanthrene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
120-12-7	Anthracene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
129-00-0	Pyrene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
85-68-7	Butylbenzylphthalate	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	105	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
218-01-9	Chrysene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*68 %*	*30-130*		*12/30/15 07:43*	*12/30/15 18:51/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*76 %*	*30-130*		*12/30/15 07:43*	*12/30/15 18:51/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*70 %*	*30-130*		*12/30/15 07:43*	*12/30/15 18:51/JMM*	*EPA 8270*	

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Project Manager: Doug Harm

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01/11/2016 15:15

Client ID: EP-19

Lab ID: 1502333-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

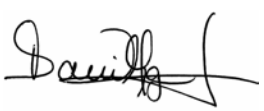
Surrogate: 2-Fluorobiphenyl		*68 %*	*30-130*			*12/30/15 07:43*	*12/30/15 18:51/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol		*86 %*	*30-130*			*12/30/15 07:43*	*12/30/15 18:51/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14		*91 %*	*30-130*			*12/30/15 07:43*	*12/30/15 18:51/JMM*	*EPA 8270*	

EPA Method SW846 8081/8082

Sample Prepared by Method:EPA 3550B

319-84-6	alpha-BHC	ND	0.835	0.835	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.835	0.835	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.835	0.835	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.835	0.835	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.835	0.835	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.835	0.835	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.835	0.835	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.835	0.835	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.68	1.68	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.68	1.68	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.68	1.68	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.68	1.68	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.68	1.68	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.68	1.68	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.68	1.68	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	2.53	8.43	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.68	1.68	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.68	1.68	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.835	0.835	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.835	0.835	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	42.2	42.2	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	21.0	42.2	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	21.0	42.2	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U

Accredited Analytical Resources LLC



Daniel Miguel, Technical Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Doug Harm

Reported:
01/11/2016 15:15

Client ID: EP-19

Lab ID: 1502333-01 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
EPA Method SW846 8081/8082										
11141-16-5	Aroclor-1232	ND	21.0	42.2	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	21.0	42.2	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	21.0	42.2	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	21.0	42.2	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	21.0	42.2	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	21.0	42.2	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	21.0	42.2	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*88.5 %*	*30-150*		*12/30/15 07:39*	*12/30/15 13:54/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*82.4 %*	*30-150*		*12/30/15 07:39*	*12/30/15 13:54/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*101 %*	*30-150*		*12/30/15 07:39*	*12/30/15 13:54/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*100 %*	*30-150*		*12/30/15 07:39*	*12/30/15 13:54/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**8440**	25.3	25.3	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7440-36-0	Antimony	ND	5.06	5.06	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**1.85**	1.27	1.27	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7440-39-3	**Barium**	**39.1**	25.3	25.3	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.633	0.633	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.633	0.633	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	U
7440-70-2	**Calcium**	**1630**	31.6	31.6	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7440-47-3	**Chromium**	**13.6**	2.53	2.53	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7440-48-4	**Cobalt**	**8.24**	6.33	6.33	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7440-50-8	**Copper**	**13.3**	3.80	3.80	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7439-89-6	**Iron**	**12200**	31.6	31.6	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7439-92-1	**Lead**	**8.20**	1.27	1.27	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7439-95-4	**Magnesium**	**4060**	63.3	63.3	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7439-96-5	**Manganese**	**98.8**	2.53	2.53	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Doug Harm

Reported:
01/11/2016 15:15

Client ID: EP-19

Lab ID: 1502333-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
				Accredited Analytical Resources LLC						
Total Metals by EPA Method SW846 6010										
7440-02-0	**Nickel**	**15.2**	5.06	5.06	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7440-09-7	**Potassium**	**994**	63.3	63.3	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7782-49-2	Selenium	ND	5.06	5.06	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.633	0.633	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	U
7440-23-5	**Sodium**	**124**	63.3	63.3	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7440-28-0	Thallium	ND	1.90	3.80	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**12.7**	6.33	6.33	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7440-66-6	**Zinc**	**45.5**	7.59	7.59	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.0949	0.0949	mg/kg dry	1	12/30/15 07:44	12/30/15 10:49/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:[CALC]										
16065-83-1	**Trivalent Chromium**	**13.6**	2.00	2.00	mg/kg dry	1	01/04/16 09:22	01/05/16 15:12/HTW	[CALC]	
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.27	1.27	mg/kg dry	1	01/04/16 09:25	01/05/16 12:28/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**79.0**	0.100	0.100	%	1	12/30/15 16:00	01/04/16 09:32/CLD	SM 2540 G	
Sample Prepared by Method:SW 846 3060A										
1854-02-99	Chromium, Hexavalent	ND	2.53	2.53	mg/kg dry	1	01/04/16 09:22	01/05/16 15:12/HTW	EPA 7196A	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 E. 138th Street, Bronx, NY
CONTACT:	Doug Harm + Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm + Sean Harrison
EMAIL FOR INVOICE:	dharm@brinkenv + sharrison@brinkenv

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Monasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1502333
P.O. #	10BR188

ANALYSIS

PRES. CODE → 5 E 6 6
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-19	12/28/15 / 9:05	S		4	G	X	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____
CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 1 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Category B data deliverable. Hard copy by January 27th 2015 NYSDEC
COOLER TEMP: 4°

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: D Miguel	Print Name:	Print Name:
Signature: Monica Norton	Signature:	Signature:	Signature:
Agent of:	Agent of: AAR	Agent of:	Agent of:
Date Received: 12/28/15 Time: 12:57		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 E. 138th Street

AAR Work Order: 1600232

Client Sample ID:	Lab Sample ID:
EP-20	1600232-01
EP-20	1600232-01RE1

This data has been reviewed and accepted by:

Daniel Miguel 02/17/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Methodology Summary

EPA Method SW846 8081/8082:
NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:
NJ 8270C
NY 8270D

Total Mercury by SW846 7471:
NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:
NJ 8260B
NY 8260C

Wet Chemistry:
Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 E. 138th Street**
Work Order: **1600232**

Received: 2/10/16 13:00

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 E. 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Sean Harrison
EMAIL FOR INVOICE:	sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1690232
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL Metals	TCL Pest	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-20	2/10/16 10:15	S		4	G	✓	✓	✓	✓	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____
CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER 1 week (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: ~~Late~~ NYSDEC Category B data deliverable - Send invoice to Brinkerhoff
COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: MonicaNorton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: K. Muniz	Print Name:	Print Name:
Signature: MonicaNorton	Signature: K. Muniz	Signature:	Signature:
Agent of: BES	Agent of: AAR	Agent of:	Agent of:
Date Received: 2/10/16	Time: 1300	Date Received: / /	Time:
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-20	1600232-01	Soil	02/10/2016 10:15	02/10/2016 13:00

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

PEST/PCB

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/12/16 05:58	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 3550B	File ID:	G15425.D
Prep Batch:	B6B1201	Sequence:	S6B1501	Analyzed:	02/15/16 13:15
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.795	0.795	U
319-85-7	beta-BHC	ND	0.795	0.795	U
319-86-8	delta-BHC	ND	0.795	0.795	U
58-89-9	gamma-BHC [Lindane]	ND	0.795	0.795	U
76-44-8	Heptachlor	ND	0.795	0.795	U
309-00-2	Aldrin	ND	0.795	0.795	U
1024-57-3	Heptachlor Epoxide	ND	0.795	0.795	U
959-98-8	Endosulfan I	ND	0.795	0.795	U
60-57-1	Dieldrin	ND	1.60	1.60	U
72-55-9	4,4'-DDE	ND	1.60	1.60	U
72-20-8	Endrin	ND	1.60	1.60	U
33213-65-9	Endosulfan II	ND	1.60	1.60	U
72-54-8	4,4'-DDD	ND	1.60	1.60	U
1031-07-8	Endosulfan sulfate	ND	1.60	1.60	U
50-29-3	4,4'-DDT	ND	1.60	1.60	U
72-43-5	Methoxychlor	ND	2.41	8.02	U
53494-70-5	Endrin ketone	ND	1.60	1.60	U
7421-93-4	Endrin aldehyde	ND	1.60	1.60	U
5103-71-9	alpha-Chlordane	ND	0.795	0.795	U
5566-34-7	gamma-Chlordane	ND	0.795	0.795	U
8001-35-2	Toxaphene	ND	40.1	40.1	U
12674-11-2	Aroclor-1016	ND	20.0	40.1	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/12/16 05:58	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 3550B	File ID:	G15425.D
Prep Batch:	B6B1201	Sequence:	S6B1501	Analyzed:	02/15/16 13:15
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.0	40.1	U
11141-16-5	Aroclor-1232	ND	20.0	40.1	U
53469-21-9	Aroclor-1242	ND	20.0	40.1	U
12672-29-6	Aroclor-1248	ND	20.0	40.1	U
11097-69-1	Aroclor-1254	ND	20.0	40.1	U
11096-82-5	Aroclor-1260	ND	20.0	40.1	U
37324-23-5	Aroclor-1262	ND	20.0	40.1	U
11100-14-4	Aroclor-1268	ND	20.0	40.1	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	79.6%	30-150
Tetrachloro-m-xylene [2C]	62.3%	30-150
Decachlorobiphenyl	83.3%	30-150
Decachlorobiphenyl [2C]	87.4%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

SEMIVOLATILES

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/11/16 06:45	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 3550B GCMS	File ID:	F12764.D
Prep Batch:	B6B1101	Sequence:	S6B1507	Analyzed:	02/15/16 21:03
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	40.1	201	U
108-95-2	Phenol	ND	40.1	201	U
111-44-4	bis(2-chloroethyl)ether	ND	40.1	201	U
95-57-8	2-Chlorophenol	ND	40.1	201	U
541-73-1	1,3-Dichlorobenzene	ND	40.1	201	U
106-46-7	1,4-Dichlorobenzene	ND	40.1	201	U
100-51-6	Benzyl alcohol	ND	40.1	201	U
95-50-1	1,2-Dichlorobenzene	ND	40.1	201	U
95-48-7	2-Methylphenol	ND	40.1	201	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	40.1	201	U
106-44-5	3 & 4-Methylphenol	ND	40.1	201	U
621-64-7	N-Nitroso-di-n-propylamine	ND	40.1	201	U
67-72-1	Hexachloroethane	ND	40.1	201	U
98-95-3	Nitrobenzene	ND	40.1	201	U
78-59-1	Isophorone	ND	40.1	201	U
88-75-5	2-Nitrophenol	ND	40.1	201	U
105-67-9	2,4-Dimethylphenol	ND	40.1	201	U
65-85-0	Benzoic acid	ND	100	401	U
111-91-1	bis(2-chloroethoxy)methane	ND	40.1	201	U
120-83-2	2,4-Dichlorophenol	ND	40.1	201	U
120-82-1	1,2,4-Trichlorobenzene	ND	40.1	201	U
91-20-3	Naphthalene	2430	40.1	201	
106-47-8	4-Chloroaniline	ND	40.1	201	U
87-68-3	Hexachlorobutadiene	ND	40.1	201	U
59-50-7	4-Chloro-3-methylphenol	ND	40.1	201	U
91-57-6	2-Methylnaphthylene	4050	40.1	201	

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/11/16 06:45	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 3550B GCMS	File ID:	F12764.D
Prep Batch:	B6B1101	Sequence:	S6B1507	Analyzed:	02/15/16 21:03
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	40.1	201	U
88-06-2	2,4,6-Trichlorophenol	ND	40.1	201	U
95-95-4	2,4,5-Trichlorophenol	ND	40.1	201	U
91-58-7	2-Chloronaphthalene	ND	40.1	201	U
88-74-4	2-Nitroaniline	ND	40.1	201	U
131-11-3	Dimethylphthalate	ND	40.1	201	U
208-96-8	Acenaphthylene	ND	40.1	201	U
99-09-2	3-Nitroaniline	ND	40.1	201	U
83-32-9	Acenaphthene	ND	40.1	201	U
51-28-5	2,4-Dinitrophenol	ND	40.1	401	U
100-02-7	4-Nitrophenol	ND	40.1	201	U
132-64-9	Dibenzofuran	ND	40.1	201	U
606-20-2	2,6-Dinitrotoluene	ND	40.1	201	U
121-14-2	2,4-Dinitrotoluene	ND	40.1	201	U
84-66-2	Diethyl phthalate	ND	40.1	201	U
7005-72-3	4-Chlorophenyl-phenylether	ND	40.1	201	U
86-73-7	Fluorene	490	40.1	201	
100-01-6	4-Nitroaniline	ND	40.1	201	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	40.1	201	U
86-30-6	N-Nitrosodiphenylamine	ND	40.1	201	U
101-55-3	4-Bromophenyl-phenylether	ND	40.1	201	U
118-74-1	Hexachlorobenzene	ND	40.1	201	U
87-86-5	Pentachlorophenol	ND	40.1	201	U
85-01-8	Phenanthrene	964	40.1	201	
120-12-7	Anthracene	ND	40.1	201	U
84-74-2	Di-n-butyl phthalate	ND	40.1	201	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/11/16 06:45	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 3550B GCMS	File ID:	F12764.D
Prep Batch:	B6B1101	Sequence:	S6B1507	Analyzed:	02/15/16 21:03
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	ND	40.1	201	U
129-00-0	Pyrene	396	40.1	201	
85-68-7	Butylbenzylphthalate	ND	40.1	201	U
91-94-1	3,3'-Dichlorobenzidine	ND	100	201	U
56-55-3	Benzo[a]anthracene	ND	40.1	201	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	40.1	201	U
218-01-9	Chrysene	ND	40.1	201	U
117-84-0	Di-n-octyl phthalate	ND	40.1	201	U
205-99-2	Benzo[b]fluoranthene	ND	40.1	201	U
207-08-9	Benzo[k]fluoranthene	ND	40.1	201	U
50-32-8	Benzo[a]pyrene	ND	40.1	201	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	40.1	201	U
53-70-3	Dibenzo(a,h)anthracene	ND	40.1	201	U
191-24-2	Benzo[ghi]perylene	ND	40.1	201	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	61%	30-130
Phenol-d5	71%	30-130
Nitrobenzene-d5	99%	30-130
2-Fluorobiphenyl	82%	30-130
2,4,6-Tribromophenol	91%	30-130
Terphenyl-d14	99%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

VOLATILES SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/12/16 16:25	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 5035A	File ID:	D14126.D
Prep Batch:	B6B1509	Sequence:	S6B1503	Analyzed:	02/12/16 16:25
Dilution:	200			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	1450	2410	U
107-13-1	Acrylonitrile	ND	482	2410	U
67-64-1	Acetone	ND	241	482	U
75-71-8	Dichlorodifluoromethane	ND	241	482	U
74-87-3	Chloromethane	ND	241	482	U
75-01-4	Vinyl chloride	ND	241	482	U
74-83-9	Bromomethane	ND	241	482	U
75-00-3	Chloroethane	ND	241	482	U
75-69-4	Trichlorofluoromethane	ND	241	482	U
75-35-4	1,1-Dichloroethene	ND	241	482	U
75-15-0	Carbon disulfide	ND	241	482	U
75-09-2	Methylene Chloride	ND	241	482	U
156-60-5	trans-1,2-Dichloroethene	ND	241	482	U
75-34-3	1,1-Dichloroethane	ND	241	482	U
108-05-4	Vinyl acetate	ND	241	482	U
590-20-7	2,2-Dichloropropane	ND	241	482	U
78-93-3	2-Butanone	ND	241	482	U
156-59-4	cis-1,2-Dichloroethene	ND	241	482	U
67-66-3	Chloroform	ND	241	482	U
74-97-5	Bromochloromethane	ND	241	482	U
71-55-6	1,1,1-Trichloroethane	ND	241	482	U
563-58-6	1,1-Dichloropropene	ND	241	482	U
56-23-5	Carbon Tetrachloride	ND	241	482	U
107-06-2	1,2-Dichloroethane	ND	241	482	U
71-43-2	Benzene	798	241	482	D
79-01-6	Trichloroethene	ND	241	482	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/12/16 16:25	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 5035A	File ID:	D14126.D
Prep Batch:	B6B1509	Sequence:	S6B1503	Analyzed:	02/12/16 16:25
Dilution:	200			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	241	482	U
75-27-4	Bromodichloromethane	ND	241	482	U
74-95-3	Dibromomethane	ND	241	482	U
110-75-8	2-Chloroethyl vinyl ether	ND	241	482	U
10061-01-5	cis-1,3-Dichloropropene	ND	241	482	U
108-88-3	Toluene	11700	241	482	D
10061-02-6	trans-1,3-Dichloropropene	ND	241	482	U
79-00-5	1,1,2-Trichloroethane	ND	241	482	U
108-10-1	4-Methyl-2-pentanone	ND	241	482	U
106-93-4	1,2-Dibromoethane	ND	241	482	U
591-78-6	2-Hexanone	ND	241	482	U
142-28-9	1,3-Dichloropropane	ND	241	482	U
127-18-4	Tetrachloroethene	ND	241	482	U
124-48-1	Dibromochloromethane	ND	241	482	U
100-41-4	Ethylbenzene	20400	241	482	D
108-90-7	Chlorobenzene	ND	241	482	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	241	482	U
108-38-3/106-42	m,p-Xylenes	83600	482	964	D
95-47-6	o-Xylene	42300	482	964	D
100-42-5	Styrene	ND	241	964	U
75-25-2	Bromoform	ND	241	482	U
98-82-8	Isopropylbenzene	5920	241	482	D
79-34-5	1,1,2,2-Tetrachloroethane	ND	241	482	U
96-18-4	1,2,3-Trichloropropane	ND	241	482	U
103-65-1	n-Propyl Benzene	19400	241	482	D
108-86-1	Bromobenzene	ND	241	482	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/12/16 16:25	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 5035A	File ID:	D14126.D
Prep Batch:	B6B1509	Sequence:	S6B1503	Analyzed:	02/12/16 16:25
Dilution:	200			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	35100	241	482	D
95-49-8	2-Chlorotoluene	ND	241	482	U
106-43-4	4-Chlorotoluene	ND	241	482	U
98-06-6	tert-Butylbenzene	ND	241	482	U
95-63-6	1,2,4-Trimethylbenzene	112000	241	482	D, E
135-98-8	sec-Butylbenzene	7650	241	482	D
99-87-6	p-Isopropyltoluene	4540	241	482	D
541-73-1	1,3-Dichlorobenzene	ND	241	482	U
106-46-7	1,4-Dichlorobenzene	ND	241	482	U
104-51-8	n-Butyl Benzene	16500	241	482	D
95-50-1	1,2-Dichlorobenzene	ND	241	482	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	241	482	U
120-82-1	1,2,4-Trichlorobenzene	ND	241	482	U
87-68-3	Hexachlorobutadiene	ND	241	482	U
87-61-6	1,2,3-Trichlorobenzene	ND	241	482	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	101%	70-130
Toluene-d8	104%	70-130
Bromofluorobenzene	109%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01RE1
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/15/16 15:48	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 5035A	File ID:	D14142.D
Prep Batch:	B6B1514	Sequence:	S6B1511	Analyzed:	02/15/16 15:48
Dilution:	1000			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7230	12000	U
107-13-1	Acrylonitrile	ND	2410	12000	U
67-64-1	Acetone	ND	1200	2410	U
75-71-8	Dichlorodifluoromethane	ND	1200	2410	U
74-87-3	Chloromethane	ND	1200	2410	U
75-01-4	Vinyl chloride	ND	1200	2410	U
74-83-9	Bromomethane	ND	1200	2410	U
75-00-3	Chloroethane	ND	1200	2410	U
75-69-4	Trichlorofluoromethane	ND	1200	2410	U
75-35-4	1,1-Dichloroethene	ND	1200	2410	U
75-15-0	Carbon disulfide	ND	1200	2410	U
75-09-2	Methylene Chloride	ND	1200	2410	U
156-60-5	trans-1,2-Dichloroethene	ND	1200	2410	U
75-34-3	1,1-Dichloroethane	ND	1200	2410	U
108-05-4	Vinyl acetate	ND	1200	2410	U
590-20-7	2,2-Dichloropropane	ND	1200	2410	U
78-93-3	2-Butanone	ND	1200	2410	U
156-59-4	cis-1,2-Dichloroethene	ND	1200	2410	U
67-66-3	Chloroform	ND	1200	2410	U
74-97-5	Bromochloromethane	ND	1200	2410	U
71-55-6	1,1,1-Trichloroethane	ND	1200	2410	U
563-58-6	1,1-Dichloropropene	ND	1200	2410	U
56-23-5	Carbon Tetrachloride	ND	1200	2410	U
107-06-2	1,2-Dichloroethane	ND	1200	2410	U
71-43-2	Benzene	ND	1200	2410	U
79-01-6	Trichloroethene	ND	1200	2410	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01RE1
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/15/16 15:48	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 5035A	File ID:	D14142.D
Prep Batch:	B6B1514	Sequence:	S6B1511	Analyzed:	02/15/16 15:48
Dilution:	1000			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1200	2410	U
75-27-4	Bromodichloromethane	ND	1200	2410	U
74-95-3	Dibromomethane	ND	1200	2410	U
110-75-8	2-Chloroethyl vinyl ether	ND	1200	2410	U
10061-01-5	cis-1,3-Dichloropropene	ND	1200	2410	U
108-88-3	Toluene	11300	1200	2410	D
10061-02-6	trans-1,3-Dichloropropene	ND	1200	2410	U
79-00-5	1,1,2-Trichloroethane	ND	1200	2410	U
108-10-1	4-Methyl-2-pentanone	ND	1200	2410	U
106-93-4	1,2-Dibromoethane	ND	1200	2410	U
591-78-6	2-Hexanone	ND	1200	2410	U
142-28-9	1,3-Dichloropropane	ND	1200	2410	U
127-18-4	Tetrachloroethene	ND	1200	2410	U
124-48-1	Dibromochloromethane	ND	1200	2410	U
100-41-4	Ethylbenzene	20400	1200	2410	D
108-90-7	Chlorobenzene	ND	1200	2410	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1200	2410	U
108-38-3/106-42	m,p-Xylenes	82000	2410	4820	D
95-47-6	o-Xylene	41800	2410	4820	D
100-42-5	Styrene	ND	1200	4820	U
75-25-2	Bromoform	ND	1200	2410	U
98-82-8	Isopropylbenzene	6600	1200	2410	D
79-34-5	1,1,2,2-Tetrachloroethane	ND	1200	2410	U
96-18-4	1,2,3-Trichloropropane	ND	1200	2410	U
103-65-1	n-Propyl Benzene	20600	1200	2410	D
108-86-1	Bromobenzene	ND	1200	2410	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01RE1
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/15/16 15:48	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 5035A	File ID:	D14142.D
Prep Batch:	B6B1514	Sequence:	S6B1511	Analyzed:	02/15/16 15:48
Dilution:	1000			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	38300	1200	2410	D
95-49-8	2-Chlorotoluene	ND	1200	2410	U
106-43-4	4-Chlorotoluene	ND	1200	2410	U
98-06-6	tert-Butylbenzene	ND	1200	2410	U
95-63-6	1,2,4-Trimethylbenzene	131000	1200	2410	D
135-98-8	sec-Butylbenzene	8720	1200	2410	D
99-87-6	p-Isopropyltoluene	4800	1200	2410	D
541-73-1	1,3-Dichlorobenzene	ND	1200	2410	U
106-46-7	1,4-Dichlorobenzene	ND	1200	2410	U
104-51-8	n-Butyl Benzene	18400	1200	2410	D
95-50-1	1,2-Dichlorobenzene	ND	1200	2410	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1200	2410	U
120-82-1	1,2,4-Trichlorobenzene	ND	1200	2410	U
87-68-3	Hexachlorobutadiene	ND	1200	2410	U
87-61-6	1,2,3-Trichlorobenzene	ND	1200	2410	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	106%	70-130
Toluene-d8	102%	70-130
Bromofluorobenzene	99%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Matrix:	Soil
Percent Solids:	83.00	File ID:	021216A-017

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	9020	24.1	24.1	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0904	0.0904	1	U	02/11/16 11:16	EPA 7471A	02/11/16 15:37 PRT	EPA 7471
7440-36-0	Antimony	ND	4.82	4.82	1	U	02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-38-2	Arsenic	1.91	1.20	1.20	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-39-3	Barium	54.5	24.1	24.1	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.602	0.602	1	U	02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.602	0.602	1	U	02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-70-2	Calcium	2410	30.1	30.1	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-47-3	Chromium	19.4	2.41	2.41	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-48-4	Cobalt	9.45	6.02	6.02	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-50-8	Copper	18.0	3.61	3.61	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7439-89-6	Iron	13500	30.1	30.1	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7439-92-1	Lead	9.03	1.20	1.20	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7439-95-4	Magnesium	4150	60.2	60.2	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7439-96-5	Manganese	297	2.41	2.41	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-02-0	Nickel	15.6	4.82	4.82	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-09-7	Potassium	2190	60.2	60.2	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7782-49-2	Selenium	ND	4.82	4.82	1	U	02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-22-4	Silver	ND	0.602	0.602	1	U	02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-23-5	Sodium	129	60.2	60.2	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-28-0	Thallium	ND	1.81	3.61	1	U	02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-62-2	Vanadium	27.6	6.02	6.02	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-66-6	Zinc	46.6	7.23	7.23	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

WET CHEMISTRY

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Matrix:	Soil
Percent Solids:	83.00	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	19.4	2.00	2.00	1		02/11/16 11:25	[CALC]	02/12/16 13:30 HTW	[CALC]
1854-02-99	Chromium, Hexava	ND	2.41	2.41	1	U	02/11/16 08:10	SW 846 3060A	02/12/16 13:30 HTW	EPA 7196A
NA	Cyanide (total)	ND	1.20	1.20	1	U	02/12/16 08:18	EPA 9010C	02/12/16 16:04 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	83.0	0.100	0.100	1		02/11/16 09:16	Percent Solids	02/12/16 09:53 CLD	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

25 July 2016 AAR Work Order: 1601375

Sean Harrison
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736
Project: 255 East 138th Street

Enclosed are the results of analyses for samples received by the laboratory on 07/21/2016 13:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	07/25/2016 15:38

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-21	1601375-01	Soil	07/21/2016 00:00	07/21/2016 13:40

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
D	Data reported from a dilution
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	07/25/2016 15:38

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

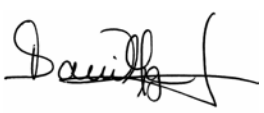
Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources LLC



Daniel Miguel, Technical Director

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Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	07/25/2016 15:38

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street
Project Manager: Sean Harrison

Reported:
07/25/2016 15:38

Client ID: EP-21

Lab ID: 1601375-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	7.78	13.0	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.59	13.0	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
67-64-1	Acetone	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
75-71-8	Dichlorodifluoromethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
75-15-0	**Carbon disulfide**	**2.10**	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	J
75-09-2	Methylene Chloride	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
78-93-3	2-Butanone	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
71-43-2	Benzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street
Project Manager: Sean Harrison

Reported:
07/25/2016 15:38

Client ID: EP-21

Lab ID: 1601375-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
108-88-3	Toluene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	2.59	5.19	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
95-47-6	o-Xylene	ND	2.59	5.19	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
100-42-5	Styrene	ND	1.30	5.19	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street
Project Manager: Sean Harrison

Reported:
07/25/2016 15:38

Client ID: EP-21

Lab ID: 1601375-01 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Volatile Organic Compounds EPA Method SW846 8260										
95-63-6	1,2,4-Trimethylbenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*190 %*	*70-130*	*	*07/22/16 02:59*	*07/22/16 02:59/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*101 %*	*70-130*		*07/22/16 02:59*	*07/22/16 02:59/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*79 %*	*70-130*		*07/22/16 02:59*	*07/22/16 02:59/SG*	*EPA 8260*	
Semivolatile Organic Compounds EPA Method SW846 8270										
Sample Prepared by Method:EPA 3550B GCMS										
62-75-9	N-Nitrosodimethylamine	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
108-95-2	Phenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street
Project Manager: Sean Harrison

Reported:
07/25/2016 15:38

Client ID: EP-21

Lab ID: 1601375-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
78-59-1	Isophorone	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	102	411	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
91-20-3	**Naphthalene**	**65.3**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	J
106-47-8	4-Chloroaniline	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
91-57-6	**2-Methylnaphthylene**	**47.7**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	J
77-47-4	Hexachlorocyclopentadiene	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
208-96-8	**Acenaphthylene**	**61.3**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	J
99-09-2	3-Nitroaniline	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
83-32-9	**Acenaphthene**	**151**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	J
51-28-5	2,4-Dinitrophenol	ND	41.1	411	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
132-64-9	**Dibenzofuran**	**96.2**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	J
606-20-2	2,6-Dinitrotoluene	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street
Project Manager: Sean Harrison

Reported:
07/25/2016 15:38

Client ID: EP-21

Lab ID: 1601375-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
84-66-2	Diethyl phthalate	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
86-73-7	**Fluorene**	**162**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	J
100-01-6	4-Nitroaniline	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**1510**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	
120-12-7	**Anthracene**	**351**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	
84-74-2	Di-n-butyl phthalate	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**1760**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	
129-00-0	**Pyrene**	**2120**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	
85-68-7	Butylbenzylphthalate	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	102	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**811**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	
117-81-7	**bis(2-ethylhexyl)phthalate**	**68.5**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	J
218-01-9	**Chrysene**	**822**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	
117-84-0	Di-n-octyl phthalate	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
205-99-2	**Benzo[b]fluoranthene**	**1180**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	
207-08-9	**Benzo[k]fluoranthene**	**505**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	
50-32-8	**Benzo[a]pyrene**	**759**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**189**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	J
53-70-3	**Dibenzo(a,h)anthracene**	**69.2**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	J
191-24-2	**Benzo[ghi]perylene**	**189**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	J
Surrogate: 2-Fluorophenol				*59 %*	*30-130*		*07/22/16 10:22*	*07/22/16 20:35/JMM*	*EPA 8270*	

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street
Project Manager: Sean Harrison

Reported:
07/25/2016 15:38

Client ID: EP-21

Lab ID: 1601375-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: Phenol-d5				*63 %*	*30-130*		*07/22/16 10:22*	*07/22/16 20:35/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*75 %*	*30-130*		*07/22/16 10:22*	*07/22/16 20:35/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*71 %*	*30-130*		*07/22/16 10:22*	*07/22/16 20:35/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*81 %*	*30-130*		*07/22/16 10:22*	*07/22/16 20:35/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*108 %*	*30-130*		*07/22/16 10:22*	*07/22/16 20:35/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	0.815	0.815	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.815	0.815	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.815	0.815	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.815	0.815	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.815	0.815	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.815	0.815	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.815	0.815	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.815	0.815	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.64	1.64	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.64	1.64	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.64	1.64	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.64	1.64	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.64	1.64	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.64	1.64	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.64	1.64	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	2.47	8.22	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.64	1.64	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.64	1.64	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.815	0.815	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
5566-34-7	**gamma-Chlordane**	**13.7**	0.815	0.815	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	
8001-35-2	Toxaphene	ND	41.1	41.1	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U

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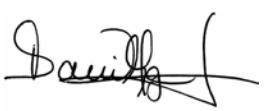

Daniel Miguel, Technical Director

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Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street
Project Manager: Sean Harrison

Reported:
07/25/2016 15:38

Client ID: EP-21
Lab ID: 1601375-01 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
EPA Method SW846 8081/8082										
12674-11-2	Aroclor-1016	ND	20.5	41.1	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	20.5	41.1	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	20.5	41.1	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	20.5	41.1	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	20.5	41.1	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	20.5	41.1	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	20.5	41.1	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	20.5	41.1	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	20.5	41.1	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*60.7 %*	*30-150*		*07/25/16 06:06*	*07/25/16 13:30/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*79.1 %*	*30-150*		*07/25/16 06:06*	*07/25/16 13:30/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*72.4 %*	*30-150*		*07/25/16 06:06*	*07/25/16 13:30/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*129 %*	*30-150*		*07/25/16 06:06*	*07/25/16 13:30/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**8930**	24.3	24.3	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7440-36-0	Antimony	ND	4.85	4.85	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.98**	1.21	1.21	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7440-39-3	**Barium**	**70.3**	24.3	24.3	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.606	0.606	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	U
7440-43-9	**Cadmium**	**0.905**	0.606	0.606	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7440-70-2	**Calcium**	**34600**	758	758	mg/kg dry	25	07/22/16 07:29	07/22/16 14:20/LIT	EPA 6010	D
7440-47-3	**Chromium**	**29.2**	2.43	2.43	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7440-48-4	**Cobalt**	**7.51**	6.06	6.06	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7440-50-8	**Copper**	**39.3**	3.64	3.64	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7439-89-6	**Iron**	**19000**	30.3	30.3	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7439-92-1	**Lead**	**87.7**	1.21	1.21	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	07/25/2016 15:38

Client ID: EP-21

Lab ID: 1601375-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
				Accredited Analytical Resources LLC						
Total Metals by EPA Method SW846 6010										
7439-95-4	**Magnesium**	**14800**	60.6	60.6	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7439-96-5	**Manganese**	**392**	2.43	2.43	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7440-02-0	**Nickel**	**16.0**	4.85	4.85	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7440-09-7	**Potassium**	**1570**	60.6	60.6	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7782-49-2	Selenium	ND	4.85	4.85	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.606	0.606	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	U
7440-23-5	**Sodium**	**309**	60.6	60.6	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7440-28-0	Thallium	ND	1.82	3.64	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**24.4**	6.06	6.06	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7440-66-6	**Zinc**	**92.0**	7.28	7.28	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	**Mercury**	**0.131**	0.0926	0.0926	mg/kg dry	1	07/21/16 14:00	07/22/16 12:12/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:[CALC]										
16065-83-1	**Trivalent Chromium**	**29.2**	1.96	1.96	mg/kg dry	1	07/22/16 07:29	07/22/16 16:46/NNM	[CALC]	
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.23	1.23	mg/kg dry	1	07/21/16 15:21	07/22/16 14:41/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**81.0**	0.100	0.100	%	1	07/25/16 08:45	07/25/16 14:28/RMK	SM 2540 G	
Sample Prepared by Method:SW 846 3060A										
1854-02-99	Chromium, Hexavalent	ND	2.47	2.47	mg/kg dry	1	07/21/16 13:58	07/22/16 16:46/NNM	EPA 7196A	

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street
Project Manager: Sean Harrison

Reported:
07/25/2016 15:38

Client ID: EP-21

Lab ID: 1601375-01RE1 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	7.51	12.5	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.50	12.5	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
67-64-1	Acetone	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
75-71-8	Dichlorodifluoromethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
75-15-0	**Carbon disulfide**	**2.52**	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	
75-09-2	Methylene Chloride	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
78-93-3	2-Butanone	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
71-43-2	Benzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	07/25/2016 15:38

Client ID: EP-21

Lab ID: 1601375-01RE1 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
108-88-3	Toluene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	2.50	5.01	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
95-47-6	o-Xylene	ND	2.50	5.01	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
100-42-5	Styrene	ND	1.25	5.01	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street
Project Manager: Sean Harrison

Reported:
07/25/2016 15:38

Client ID: EP-21

Lab ID: 1601375-01RE1 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*181 %*	*70-130*	*	*07/22/16 03:30*	*07/22/16 03:30/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*98 %*	*70-130*		*07/22/16 03:30*	*07/22/16 03:30/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*75 %*	*70-130*		*07/22/16 03:30*	*07/22/16 03:30/SG*	*EPA 8260*	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave.
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1601375
P.O. #	10BRI88

COLLECTION INFORMATION / ANALYSIS

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-21	7/21/16	S	18'	4	G	X	X	X	-01

PRES. CODE →
CONT. CODE →

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE

PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____ (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Catagory B Data Deliverables

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: Jonathan Kraus

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: Jonathan Kraus	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 7/21/16	Time: 1340	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

04 August 2016 AAR Work Order: 1601418

Sean Harrison
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736
Project: 255 East 138 Street

Enclosed are the results of analyses for samples received by the laboratory on 07/28/2016 15:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138 Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/04/2016 15:41

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-22	1601418-01	Soil	07/28/2016 10:44	07/28/2016 15:25

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
D	Data reported from a dilution
B	Indicates compound found in associated blank
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138 Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/04/2016 15:41

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

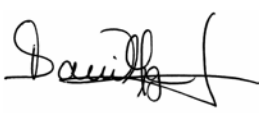
Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources LLC



Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138 Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/04/2016 15:41

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138 Street
Project Manager: Sean Harrison

Reported:
08/04/2016 15:41

Client ID: EP-22

Lab ID: 1601418-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	6.22	10.4	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.07	10.4	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
67-64-1	**Acetone**	**5.16**	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	
75-71-8	Dichlorodifluoromethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**3.44**	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
78-93-3	**2-Butanone**	**2.19**	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	
156-59-4	cis-1,2-Dichloroethene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
71-43-2	Benzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138 Street
Project Manager: Sean Harrison

Reported:
08/04/2016 15:41

Client ID: EP-22

Lab ID: 1601418-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
108-88-3	Toluene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	2.07	4.14	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
95-47-6	o-Xylene	ND	2.07	4.14	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
100-42-5	Styrene	ND	1.04	4.14	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138 Street
Project Manager: Sean Harrison

Reported:
08/04/2016 15:41

Client ID: EP-22

Lab ID: 1601418-01 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Volatile Organic Compounds EPA Method SW846 8260										
95-63-6	1,2,4-Trimethylbenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*103 %*	*70-130*		*08/02/16 12:02*	*08/02/16 12:02/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*103 %*	*70-130*		*08/02/16 12:02*	*08/02/16 12:02/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*103 %*	*70-130*		*08/02/16 12:02*	*08/02/16 12:02/SG*	*EPA 8260*	
Semivolatile Organic Compounds EPA Method SW846 8270										
Sample Prepared by Method:EPA 3550B GCMS										
62-75-9	N-Nitrosodimethylamine	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
108-95-2	Phenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138 Street
Project Manager: Sean Harrison

Reported:
08/04/2016 15:41

Client ID: EP-22

Lab ID: 1601418-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
78-59-1	Isophorone	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	93.0	373	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	37.3	373	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U

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Reported:
08/04/2016 15:41

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Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7005-72-3	4-Chlorophenyl-phenylether	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
86-73-7	Fluorene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
85-01-8	Phenanthrene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
120-12-7	Anthracene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
129-00-0	Pyrene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
85-68-7	Butylbenzylphthalate	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	93.0	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
218-01-9	Chrysene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*61 %*	*30-130*		*08/02/16 06:18*	*08/03/16 20:18/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*63 %*	*30-130*		*08/02/16 06:18*	*08/03/16 20:18/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*88 %*	*30-130*		*08/02/16 06:18*	*08/03/16 20:18/JMM*	*EPA 8270*	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138 Street
Project Manager: Sean Harrison

Reported:
08/04/2016 15:41

Client ID: EP-22

Lab ID: 1601418-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

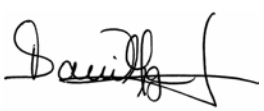
Surrogate: 2-Fluorobiphenyl	*85 %*	*30-130*		*08/02/16 06:18*	*08/03/16 20:18/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol	*84 %*	*30-130*		*08/02/16 06:18*	*08/03/16 20:18/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14	*97 %*	*30-130*		*08/02/16 06:18*	*08/03/16 20:18/JMM*	*EPA 8270*	

EPA Method SW846 8081/8082

Sample Prepared by Method:EPA 3550B

319-84-6	alpha-BHC	ND	0.740	0.740	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.740	0.740	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.740	0.740	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.740	0.740	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.740	0.740	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.740	0.740	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.740	0.740	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.740	0.740	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.49	1.49	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.49	1.49	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.49	1.49	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.49	1.49	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.49	1.49	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.49	1.49	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.49	1.49	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	2.24	7.47	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.49	1.49	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.49	1.49	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.740	0.740	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.740	0.740	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	37.3	37.3	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	18.6	37.3	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	18.6	37.3	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U

Accredited Analytical Resources LLC



Daniel Miguel, Technical Director

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Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138 Street
Project Manager: Sean Harrison

Reported:
08/04/2016 15:41

Client ID: EP-22

Lab ID: 1601418-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
					Accredited Analytical Resources LLC					
EPA Method SW846 8081/8082										
11141-16-5	Aroclor-1232	ND	18.6	37.3	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	18.6	37.3	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	18.6	37.3	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	18.6	37.3	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	18.6	37.3	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	18.6	37.3	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	18.6	37.3	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*59.6 %*	*30-150*		*08/02/16 06:14*	*08/03/16 15:39/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*73.4 %*	*30-150*		*08/02/16 06:14*	*08/03/16 15:39/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*64.1 %*	*30-150*		*08/02/16 06:14*	*08/03/16 15:39/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*72.0 %*	*30-150*		*08/02/16 06:14*	*08/03/16 15:39/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**6740**	22.4	22.4	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7440-36-0	Antimony	ND	4.48	4.48	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	U
7440-38-2	Arsenic	ND	1.12	1.12	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	U
7440-39-3	**Barium**	**39.4**	22.4	22.4	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.561	0.561	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.561	0.561	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	U
7440-70-2	**Calcium**	**47200**	701	701	mg/kg dry	25	08/02/16 08:51	08/02/16 14:53/LIT	EPA 6010	D
7440-47-3	**Chromium**	**15.4**	2.24	2.24	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7440-48-4	**Cobalt**	**6.21**	5.61	5.61	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7440-50-8	**Copper**	**13.1**	3.36	3.36	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7439-89-6	**Iron**	**12100**	28.0	28.0	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7439-92-1	**Lead**	**6.79**	1.12	1.12	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7439-95-4	**Magnesium**	**29100**	56.1	56.1	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7439-96-5	**Manganese**	**515**	2.24	2.24	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138 Street
Project Manager: Sean Harrison

Reported:
08/04/2016 15:41

Client ID: EP-22

Lab ID: 1601418-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
				Accredited Analytical Resources LLC						
Total Metals by EPA Method SW846 6010										
7440-02-0	**Nickel**	**10.7**	4.48	4.48	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7440-09-7	**Potassium**	**1890**	56.1	56.1	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7782-49-2	Selenium	ND	4.48	4.48	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.561	0.561	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	U
7440-23-5	**Sodium**	**166**	56.1	56.1	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7440-28-0	Thallium	ND	1.68	3.36	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**24.5**	5.61	5.61	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7440-66-6	**Zinc**	**36.8**	6.73	6.73	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.0841	0.0841	mg/kg dry	1	07/29/16 07:41	08/01/16 09:21/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:[CALC]										
16065-83-1	**Trivalent Chromium**	**15.4**	2.00	2.00	mg/kg dry	1	08/02/16 08:51	08/02/16 15:52/NNM	[CALC]	
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.12	1.12	mg/kg dry	1	08/03/16 11:12	08/03/16 17:08/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**89.2**	0.100	0.100	%	1	08/03/16 10:57	08/04/16 13:07/RMK	SM 2540 G	
Sample Prepared by Method:SW 846 3060A										
1854-02-99	Chromium, Hexavalent	ND	2.24	2.24	mg/kg dry	1	08/01/16 09:19	08/02/16 15:52/NNM	EPA 7196A	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138 Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey
ZIP:	08736

AAR QUOTE #	
AAR WORK ORDER #	1601418
P.O. #	10BR188

COLLECTION INFORMATION

ANALYSIS

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	PRES. CODE → / CONT. CODE → TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-22	7/28/16 1045	S	9-10'	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Catagory B Data Deliverables

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES - EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 7/28/16	Time: 1525	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601448

Client Sample ID:	Lab Sample ID:
EP-23	1601448-01

This data has been reviewed and accepted by:

Daniel Miguel 08/08/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Table of Contents

Accredited Analytical Resources, LLC.

Methodology Summary

EPA Method SW846 8081/8082:
NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:
NJ 8270C
NY 8270D

Total Mercury by SW846 7471:
NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:
NJ 8260B
NY 8260C

Wet Chemistry:
Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1601448**

Received: 8/1/16 15:05

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave.
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1601448
P.O. #	10BRIPP

COLLECTION INFORMATION

ANALYSIS

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	PRES. CODE → / CONT. CODE → TAL/TCL	Hex chrom	Tri. chrom	AAR SAMPLE #
EP-23	8/1/16 1140	S	4	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

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TURNAROUND TIME: (CIRCLE ONE) STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Catagory B Data deliverables

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathon Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 8 / 1 / 16	Time: 1505	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-23	1601448-01	Soil	08/01/2016 11:40	08/01/2016 15:05

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

PEST/PCB

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 06:14	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 3550B	File ID:	A22538.D
Prep Batch:	B6H0202	Sequence:	S6H0202	Analyzed:	08/02/16 19:01
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.776	0.776	U
319-85-7	beta-BHC	ND	0.776	0.776	U
319-86-8	delta-BHC	ND	0.776	0.776	U
58-89-9	gamma-BHC [Lindane]	ND	0.776	0.776	U
76-44-8	Heptachlor	ND	0.776	0.776	U
309-00-2	Aldrin	ND	0.776	0.776	U
1024-57-3	Heptachlor Epoxide	ND	0.776	0.776	U
959-98-8	Endosulfan I	ND	0.776	0.776	U
60-57-1	Dieldrin	ND	1.56	1.56	U
72-55-9	4,4'-DDE	ND	1.56	1.56	U
72-20-8	Endrin	ND	1.56	1.56	U
33213-65-9	Endosulfan II	ND	1.56	1.56	U
72-54-8	4,4'-DDD	ND	1.56	1.56	U
1031-07-8	Endosulfan sulfate	ND	1.56	1.56	U
50-29-3	4,4'-DDT	ND	1.56	1.56	U
72-43-5	Methoxychlor	ND	2.35	7.83	U
53494-70-5	Endrin ketone	ND	1.56	1.56	U
7421-93-4	Endrin aldehyde	ND	1.56	1.56	U
5103-71-9	alpha-Chlordane	ND	0.776	0.776	U
5566-34-7	gamma-Chlordane	ND	0.776	0.776	U
8001-35-2	Toxaphene	ND	39.1	39.1	U
12674-11-2	Aroclor-1016	ND	19.5	39.1	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 06:14	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 3550B	File ID:	A22538.D
Prep Batch:	B6H0202	Sequence:	S6H0202	Analyzed:	08/02/16 19:01
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.5	39.1	U
11141-16-5	Aroclor-1232	ND	19.5	39.1	U
53469-21-9	Aroclor-1242	ND	19.5	39.1	U
12672-29-6	Aroclor-1248	ND	19.5	39.1	U
11097-69-1	Aroclor-1254	ND	19.5	39.1	U
11096-82-5	Aroclor-1260	ND	19.5	39.1	U
37324-23-5	Aroclor-1262	ND	19.5	39.1	U
11100-14-4	Aroclor-1268	ND	19.5	39.1	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	87.5%	30-150
Tetrachloro-m-xylene [2C]	115%	30-150
Decachlorobiphenyl	110%	30-150
Decachlorobiphenyl [2C]	128%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

SEMIVOLATILES

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 06:18	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 3550B GCMS	File ID:	E10951.D
Prep Batch:	B6H0203	Sequence:	S6H0308	Analyzed:	08/03/16 18:08
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	39.1	196	U
108-95-2	Phenol	ND	39.1	196	U
111-44-4	bis(2-chloroethyl)ether	ND	39.1	196	U
95-57-8	2-Chlorophenol	ND	39.1	196	U
541-73-1	1,3-Dichlorobenzene	ND	39.1	196	U
106-46-7	1,4-Dichlorobenzene	ND	39.1	196	U
100-51-6	Benzyl alcohol	ND	39.1	196	U
95-50-1	1,2-Dichlorobenzene	ND	39.1	196	U
95-48-7	2-Methylphenol	ND	39.1	196	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	39.1	196	U
106-44-5	3 & 4-Methylphenol	ND	39.1	196	U
621-64-7	N-Nitroso-di-n-propylamine	ND	39.1	196	U
67-72-1	Hexachloroethane	ND	39.1	196	U
98-95-3	Nitrobenzene	ND	39.1	196	U
78-59-1	Isophorone	ND	39.1	196	U
88-75-5	2-Nitrophenol	ND	39.1	196	U
105-67-9	2,4-Dimethylphenol	ND	39.1	196	U
65-85-0	Benzoic acid	ND	97.5	391	U
111-91-1	bis(2-chloroethoxy)methane	ND	39.1	196	U
120-83-2	2,4-Dichlorophenol	ND	39.1	196	U
120-82-1	1,2,4-Trichlorobenzene	ND	39.1	196	U
91-20-3	Naphthalene	ND	39.1	196	U
106-47-8	4-Chloroaniline	ND	39.1	196	U
87-68-3	Hexachlorobutadiene	ND	39.1	196	U
59-50-7	4-Chloro-3-methylphenol	ND	39.1	196	U
91-57-6	2-Methylnaphthylene	ND	39.1	196	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 06:18	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 3550B GCMS	File ID:	E10951.D
Prep Batch:	B6H0203	Sequence:	S6H0308	Analyzed:	08/03/16 18:08
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	39.1	196	U
88-06-2	2,4,6-Trichlorophenol	ND	39.1	196	U
95-95-4	2,4,5-Trichlorophenol	ND	39.1	196	U
91-58-7	2-Chloronaphthalene	ND	39.1	196	U
88-74-4	2-Nitroaniline	ND	39.1	196	U
131-11-3	Dimethylphthalate	ND	39.1	196	U
208-96-8	Acenaphthylene	ND	39.1	196	U
99-09-2	3-Nitroaniline	ND	39.1	196	U
83-32-9	Acenaphthene	ND	39.1	196	U
51-28-5	2,4-Dinitrophenol	ND	39.1	391	U
100-02-7	4-Nitrophenol	ND	39.1	196	U
132-64-9	Dibenzofuran	ND	39.1	196	U
606-20-2	2,6-Dinitrotoluene	ND	39.1	196	U
121-14-2	2,4-Dinitrotoluene	ND	39.1	196	U
84-66-2	Diethyl phthalate	ND	39.1	196	U
7005-72-3	4-Chlorophenyl-phenylether	ND	39.1	196	U
86-73-7	Fluorene	ND	39.1	196	U
100-01-6	4-Nitroaniline	ND	39.1	196	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	39.1	196	U
86-30-6	N-Nitrosodiphenylamine	ND	39.1	196	U
101-55-3	4-Bromophenyl-phenylether	ND	39.1	196	U
118-74-1	Hexachlorobenzene	ND	39.1	196	U
87-86-5	Pentachlorophenol	ND	39.1	196	U
85-01-8	Phenanthrene	ND	39.1	196	U
120-12-7	Anthracene	ND	39.1	196	U
84-74-2	Di-n-butyl phthalate	ND	39.1	196	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 06:18	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 3550B GCMS	File ID:	E10951.D
Prep Batch:	B6H0203	Sequence:	S6H0308	Analyzed:	08/03/16 18:08
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	ND	39.1	196	U
129-00-0	Pyrene	ND	39.1	196	U
85-68-7	Butylbenzylphthalate	ND	39.1	196	U
91-94-1	3,3'-Dichlorobenzidine	ND	97.5	196	U
56-55-3	Benzo[a]anthracene	ND	39.1	196	U
117-81-7	bis(2-ethylhexyl)phthalate	49.8	39.1	196	J
218-01-9	Chrysene	ND	39.1	196	U
117-84-0	Di-n-octyl phthalate	ND	39.1	196	U
205-99-2	Benzo[b]fluoranthene	ND	39.1	196	U
207-08-9	Benzo[k]fluoranthene	ND	39.1	196	U
50-32-8	Benzo[a]pyrene	ND	39.1	196	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	39.1	196	U
53-70-3	Dibenzo(a,h)anthracene	ND	39.1	196	U
191-24-2	Benzo[ghi]perylene	ND	39.1	196	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	58%	30-130
Phenol-d5	59%	30-130
Nitrobenzene-d5	83%	30-130
2-Fluorobiphenyl	79%	30-130
2,4,6-Tribromophenol	74%	30-130
Terphenyl-d14	87%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

VOLATILES SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 12:33	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 5035A	File ID:	A8882.D
Prep Batch:	B6H0217	Sequence:	S6H0203	Analyzed:	08/02/16 12:33
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	6.14	10.2	U
107-13-1	Acrylonitrile	ND	2.05	10.2	U
67-64-1	Acetone	1.17	1.02	2.05	J
75-71-8	Dichlorodifluoromethane	ND	1.02	2.05	U
74-87-3	Chloromethane	ND	1.02	2.05	U
75-01-4	Vinyl chloride	ND	1.02	2.05	U
74-83-9	Bromomethane	ND	1.02	2.05	U
75-00-3	Chloroethane	ND	1.02	2.05	U
75-69-4	Trichlorofluoromethane	ND	1.02	2.05	U
75-35-4	1,1-Dichloroethene	ND	1.02	2.05	U
75-15-0	Carbon disulfide	ND	1.02	2.05	U
75-09-2	Methylene Chloride	1.57	1.02	2.05	J, B
156-60-5	trans-1,2-Dichloroethene	ND	1.02	2.05	U
75-34-3	1,1-Dichloroethane	ND	1.02	2.05	U
108-05-4	Vinyl acetate	ND	1.02	2.05	U
590-20-7	2,2-Dichloropropane	ND	1.02	2.05	U
78-93-3	2-Butanone	ND	1.02	2.05	U
156-59-4	cis-1,2-Dichloroethene	ND	1.02	2.05	U
67-66-3	Chloroform	ND	1.02	2.05	U
74-97-5	Bromochloromethane	ND	1.02	2.05	U
71-55-6	1,1,1-Trichloroethane	ND	1.02	2.05	U
563-58-6	1,1-Dichloropropene	ND	1.02	2.05	U
56-23-5	Carbon Tetrachloride	ND	1.02	2.05	U
107-06-2	1,2-Dichloroethane	ND	1.02	2.05	U
71-43-2	Benzene	ND	1.02	2.05	U
79-01-6	Trichloroethene	ND	1.02	2.05	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 12:33	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 5035A	File ID:	A8882.D
Prep Batch:	B6H0217	Sequence:	S6H0203	Analyzed:	08/02/16 12:33
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.02	2.05	U
75-27-4	Bromodichloromethane	ND	1.02	2.05	U
74-95-3	Dibromomethane	ND	1.02	2.05	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.02	2.05	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.02	2.05	U
108-88-3	Toluene	ND	1.02	2.05	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.02	2.05	U
79-00-5	1,1,2-Trichloroethane	ND	1.02	2.05	U
108-10-1	4-Methyl-2-pentanone	ND	1.02	2.05	U
106-93-4	1,2-Dibromoethane	ND	1.02	2.05	U
591-78-6	2-Hexanone	ND	1.02	2.05	U
142-28-9	1,3-Dichloropropane	ND	1.02	2.05	U
127-18-4	Tetrachloroethene	ND	1.02	2.05	U
124-48-1	Dibromochloromethane	ND	1.02	2.05	U
100-41-4	Ethylbenzene	ND	1.02	2.05	U
108-90-7	Chlorobenzene	ND	1.02	2.05	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.02	2.05	U
108-38-3/106-42	m,p-Xylenes	ND	2.05	4.09	U
95-47-6	o-Xylene	ND	2.05	4.09	U
100-42-5	Styrene	ND	1.02	4.09	U
75-25-2	Bromoform	ND	1.02	2.05	U
98-82-8	Isopropylbenzene	ND	1.02	2.05	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.02	2.05	U
96-18-4	1,2,3-Trichloropropane	ND	1.02	2.05	U
103-65-1	n-Propyl Benzene	ND	1.02	2.05	U
108-86-1	Bromobenzene	ND	1.02	2.05	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 12:33	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 5035A	File ID:	A8882.D
Prep Batch:	B6H0217	Sequence:	S6H0203	Analyzed:	08/02/16 12:33
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.02	2.05	U
95-49-8	2-Chlorotoluene	ND	1.02	2.05	U
106-43-4	4-Chlorotoluene	ND	1.02	2.05	U
98-06-6	tert-Butylbenzene	ND	1.02	2.05	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.02	2.05	U
135-98-8	sec-Butylbenzene	ND	1.02	2.05	U
99-87-6	p-Isopropyltoluene	ND	1.02	2.05	U
541-73-1	1,3-Dichlorobenzene	ND	1.02	2.05	U
106-46-7	1,4-Dichlorobenzene	ND	1.02	2.05	U
104-51-8	n-Butyl Benzene	ND	1.02	2.05	U
95-50-1	1,2-Dichlorobenzene	ND	1.02	2.05	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.02	2.05	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.02	2.05	U
87-68-3	Hexachlorobutadiene	ND	1.02	2.05	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.02	2.05	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	106%	70-130
Toluene-d8	103%	70-130
Bromofluorobenzene	102%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Matrix:	Soil
Percent Solids:	85.10	File ID:	080216A-023

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	7880	15.7	15.7	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0881	0.0881	1	U	08/04/16 07:42	EPA 7471A	08/04/16 12:14 PRT	EPA 7471
7440-36-0	Antimony	ND	3.13	3.13	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-38-2	Arsenic	1.46	0.783	0.783	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-39-3	Barium	47.0	15.7	15.7	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.391	0.391	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.391	0.391	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-70-2	Calcium	5810	19.6	19.6	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-47-3	Chromium	15.3	1.57	1.57	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-48-4	Cobalt	6.79	3.91	3.91	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-50-8	Copper	16.9	2.35	2.35	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7439-89-6	Iron	12500	19.6	19.6	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7439-92-1	Lead	8.07	0.783	0.783	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7439-95-4	Magnesium	6980	39.1	39.1	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7439-96-5	Manganese	256	1.57	1.57	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-02-0	Nickel	13.3	3.13	3.13	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-09-7	Potassium	1800	39.1	39.1	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7782-49-2	Selenium	ND	3.13	3.13	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-22-4	Silver	ND	0.391	0.391	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-23-5	Sodium	130	39.1	39.1	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-28-0	Thallium	ND	1.17	2.35	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-62-2	Vanadium	25.1	3.91	3.91	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-66-6	Zinc	40.3	4.70	4.70	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010

* Values outside of QC limits
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U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

WET CHEMISTRY

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Matrix:	Soil
Percent Solids:	85.10	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	15.3	1.33	1.33	1		08/05/16 09:06	[CALC]	08/08/16 15:35 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.35	2.35	1	U	08/05/16 09:06	SW 846 3060A	08/08/16 15:35 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.18	1.18	1	U	08/03/16 11:12	EPA 9010C	08/03/16 17:08 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	85.1	0.100	0.100	1		08/03/16 11:00	Percent Solids	08/04/16 13:16 RMK	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

31 August 2016 AAR Work Order: 1601618

Sean Harrison
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736
Project: 255 E. 138th Street

Enclosed are the results of analyses for samples received by the laboratory on 08/24/2016 14:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/31/2016 14:59

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-24	1601618-01	Soil	08/24/2016 12:10	08/24/2016 14:05

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/31/2016 14:59

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

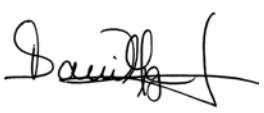
Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/31/2016 14:59

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources LLC



Daniel Miguel, Technical Director

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Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 E. 138th Street
Project Manager: Sean Harrison

Reported:
08/31/2016 14:59

Client ID: EP-24

Lab ID: 1601618-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Volatile Organic Compounds EPA Method SW846 8260										
Sample Prepared by Method:EPA 5035A										
107-02-8	Acrolein	ND	7.68	12.8	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.56	12.8	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
67-64-1	**Acetone**	**36.7**	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	
75-71-8	Dichlorodifluoromethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
78-93-3	**2-Butanone**	**8.23**	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	
156-59-4	cis-1,2-Dichloroethene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
71-43-2	Benzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 E. 138th Street
Project Manager: Sean Harrison

Reported:
08/31/2016 14:59

Client ID: EP-24

Lab ID: 1601618-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
108-88-3	Toluene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	2.56	5.12	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
95-47-6	o-Xylene	ND	2.56	5.12	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
100-42-5	Styrene	ND	1.28	5.12	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 E. 138th Street
Project Manager: Sean Harrison

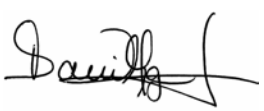
Reported:
08/31/2016 14:59

Client ID: EP-24

Lab ID: 1601618-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Accredited Analytical Resources LLC										
Volatile Organic Compounds EPA Method SW846 8260										
95-63-6	1,2,4-Trimethylbenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*100 %*	*70-130*		*08/25/16 17:17*	*08/25/16 17:17/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*106 %*	*70-130*		*08/25/16 17:17*	*08/25/16 17:17/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*91 %*	*70-130*		*08/25/16 17:17*	*08/25/16 17:17/SG*	*EPA 8260*	
Semivolatile Organic Compounds EPA Method SW846 8270										
Sample Prepared by Method:EPA 3550B GCMS										
62-75-9	N-Nitrosodimethylamine	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
108-95-2	Phenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U

Accredited Analytical Resources LLC



Daniel Miguel, Technical Director

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Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 E. 138th Street
Project Manager: Sean Harrison

Reported:
08/31/2016 14:59

Client ID: EP-24

Lab ID: 1601618-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
78-59-1	Isophorone	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	101	404	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	40.4	404	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 E. 138th Street
Project Manager: Sean Harrison

Reported:
08/31/2016 14:59

Client ID: EP-24

Lab ID: 1601618-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7005-72-3	4-Chlorophenyl-phenylether	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
86-73-7	Fluorene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
85-01-8	Phenanthrene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
120-12-7	Anthracene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
129-00-0	Pyrene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
85-68-7	Butylbenzylphthalate	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	101	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
218-01-9	Chrysene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*70 %*	*30-130*		*08/26/16 05:30*	*08/26/16 19:07/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*72 %*	*30-130*		*08/26/16 05:30*	*08/26/16 19:07/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*72 %*	*30-130*		*08/26/16 05:30*	*08/26/16 19:07/JMM*	*EPA 8270*	

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BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 E. 138th Street
Project Manager: Sean Harrison

Reported:
08/31/2016 14:59

Client ID: EP-24

Lab ID: 1601618-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: 2-Fluorobiphenyl				*65 %*	*30-130*		*08/26/16 05:30*	*08/26/16 19:07/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*77 %*	*30-130*		*08/26/16 05:30*	*08/26/16 19:07/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*85 %*	*30-130*		*08/26/16 05:30*	*08/26/16 19:07/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	0.801	0.801	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.801	0.801	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.801	0.801	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.801	0.801	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.801	0.801	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.801	0.801	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.801	0.801	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.801	0.801	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.61	1.61	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.61	1.61	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.61	1.61	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.61	1.61	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.61	1.61	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.61	1.61	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.61	1.61	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	2.43	8.08	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.61	1.61	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.61	1.61	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.801	0.801	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.801	0.801	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	40.4	40.4	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	20.1	40.4	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	20.1	40.4	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U

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BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 E. 138th Street
Project Manager: Sean Harrison

Reported:
08/31/2016 14:59

Client ID: EP-24

Lab ID: 1601618-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
					Accredited Analytical Resources LLC					
EPA Method SW846 8081/8082										
11141-16-5	Aroclor-1232	ND	20.1	40.4	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	20.1	40.4	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	20.1	40.4	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	20.1	40.4	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	20.1	40.4	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	20.1	40.4	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	20.1	40.4	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*55.3 %*	*30-150*		*08/25/16 10:21*	*08/26/16 21:22/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*85.3 %*	*30-150*		*08/25/16 10:21*	*08/26/16 21:22/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*72.9 %*	*30-150*		*08/25/16 10:21*	*08/26/16 21:22/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*88.7 %*	*30-150*		*08/25/16 10:21*	*08/26/16 21:22/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**12600**	24.2	24.2	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7440-36-0	Antimony	ND	4.84	4.84	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	U
7440-38-2	**Arsenic**	**2.29**	1.21	1.21	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7440-39-3	**Barium**	**64.0**	24.2	24.2	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7440-41-7	Beryllium	ND	0.605	0.605	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	U
7440-43-9	Cadmium	ND	0.605	0.605	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	U
7440-70-2	**Calcium**	**1630**	30.2	30.2	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7440-47-3	**Chromium**	**15.5**	2.42	2.42	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7440-48-4	**Cobalt**	**6.61**	6.05	6.05	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7440-50-8	**Copper**	**10.1**	3.63	3.63	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7439-89-6	**Iron**	**14400**	30.2	30.2	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7439-92-1	**Lead**	**12.9**	1.21	1.21	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7439-95-4	**Magnesium**	**3030**	60.5	60.5	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7439-96-5	**Manganese**	**418**	2.42	2.42	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	

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Project: 255 E. 138th Street
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08/31/2016 14:59

Client ID: EP-24
Lab ID: 1601618-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
				Accredited Analytical Resources LLC						
Total Metals by EPA Method SW846 6010										
7440-02-0	**Nickel**	**12.4**	4.84	4.84	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7440-09-7	**Potassium**	**690**	60.5	60.5	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7782-49-2	Selenium	ND	4.84	4.84	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	U
7440-22-4	Silver	ND	0.605	0.605	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	U
7440-23-5	**Sodium**	**89.3**	60.5	60.5	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7440-28-0	Thallium	ND	1.81	3.63	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	U
7440-62-2	**Vanadium**	**21.1**	6.05	6.05	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7440-66-6	**Zinc**	**41.4**	7.26	7.26	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.0910	0.0910	mg/kg dry	1	08/26/16 07:17	08/26/16 13:58/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:[CALC]										
16065-83-1	**Trivalent Chromium**	**15.5**	1.99	1.99	mg/kg dry	1	08/26/16 08:47	08/27/16 13:36/NNM	[CALC]	
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.21	1.21	mg/kg dry	1	08/29/16 11:48	08/29/16 17:06/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**82.4**	0.100	0.100	%	1	08/26/16 09:30	08/29/16 09:19/CLD	SM 2540 G	
Sample Prepared by Method:SW 846 3060A										
1854-02-99	Chromium, Hexavalent	ND	2.43	2.43	mg/kg dry	1	08/26/16 08:47	08/27/16 13:36/NNM	EPA 7196A	

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Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 E. 138th St.
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey
ZIP:	08736

AAR QUOTE #	
AAR WORK ORDER #	1631618
P.O. #	10BR198

COLLECTION INFORMATION

ANALYSIS

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	PRES. CODE → / CONT. CODE → TAL/TCL	Hex Chrom	Tri. Chrom	AAR SAMPLE #
EP-24	8/24/16 1240	S	10-11	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYS DEC Catagory B Data Deliverables. Hard copy due 4 weeks from today: 8/24/16

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: Jonathan Kraus

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: Jonathan Kraus	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 8/24/16	Time: 1405	Date Received: / /	Time:
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601635

Client Sample ID:	Lab Sample ID:
EP-25	1601635-01

This data has been reviewed and accepted by:

Daniel Miguel 08/29/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Table of Contents

Accredited Analytical Resources, LLC.

Methodology Summary

EPA Method SW846 8081/8082:
NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:
NJ 8270C
NY 8270D

Total Mercury by SW846 7471:
NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:
NJ 8260B
NY 8260C

Wet Chemistry:
Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1601635**

Received: 8/24/16 14:05

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	BrinKerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey
ZIP:	08736

AAR QUOTE #	
AAR WORK ORDER #	1601635
P.O. #	10BRI88

ANALYSIS

PRES. CODE →
CONT. CODE →

TAL/TCL
Hex Chrom
TCL Chrom

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)				AAR SAMPLE #
EP-25	8/24/16 1040	S		4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER_____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER_____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Category B Data Deliverables. Hard Copy due 4 weeks from today, 8/24/16. DO NOT RUN. Until authorized

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus by email SIGN:

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature:	Signature: K. Muniz	Signature:	Signature:
Agent of: BrinKerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 8/24/16	Time: 1405	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Page 1 of ____

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX/ 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138th Street
CONTACT	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	BrinKerhoff Environmental
ADDRESS:	1805 Atlantic Ave.
CITY:	Manasquan
STATE:	New Jersey ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	
P.O. #	10BR189

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	TCL Chrom	AAR SAMPLE #
EP-25	8/24/16 1040	S		4	G	X	X	X	

Please analyze sample with a 48-hour TAT.
SH 8/25/2016

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____
CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ____ (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Category B Data Deliverables. Hard Copy due 4 weeks from today, 8/24/16. DO NOT RUN, Until authorized
COOLER TEMP:

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus by email SIGN:

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K Muniz	Print Name:	Print Name:
Signature:	Signature: K Muniz	Signature:	Signature:
Agent of: BrinKerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 8/24/16	Time: 1405	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-25	1601635-01	Soil	08/24/2016 10:40	08/24/2016 14:05

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

PEST/PCB

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/25/16 15:16	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 3550B	File ID:	A22871.D
Prep Batch:	B6H2506	Sequence:	S6H2602	Analyzed:	08/26/16 16:00
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.724	0.724	U
319-85-7	beta-BHC	ND	0.724	0.724	U
319-86-8	delta-BHC	ND	0.724	0.724	U
58-89-9	gamma-BHC [Lindane]	ND	0.724	0.724	U
76-44-8	Heptachlor	ND	0.724	0.724	U
309-00-2	Aldrin	ND	0.724	0.724	U
1024-57-3	Heptachlor Epoxide	ND	0.724	0.724	U
959-98-8	Endosulfan I	ND	0.724	0.724	U
60-57-1	Dieldrin	ND	1.46	1.46	U
72-55-9	4,4'-DDE	ND	1.46	1.46	U
72-20-8	Endrin	ND	1.46	1.46	U
33213-65-9	Endosulfan II	ND	1.46	1.46	U
72-54-8	4,4'-DDD	ND	1.46	1.46	U
1031-07-8	Endosulfan sulfate	ND	1.46	1.46	U
50-29-3	4,4'-DDT	ND	1.46	1.46	U
72-43-5	Methoxychlor	ND	2.19	7.30	U
53494-70-5	Endrin ketone	ND	1.46	1.46	U
7421-93-4	Endrin aldehyde	ND	1.46	1.46	U
5103-71-9	alpha-Chlordane	ND	0.724	0.724	U
5566-34-7	gamma-Chlordane	ND	0.724	0.724	U
8001-35-2	Toxaphene	ND	36.5	36.5	U
12674-11-2	Aroclor-1016	ND	18.2	36.5	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/25/16 15:16	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 3550B	File ID:	A22871.D
Prep Batch:	B6H2506	Sequence:	S6H2602	Analyzed:	08/26/16 16:00
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	18.2	36.5	U
11141-16-5	Aroclor-1232	ND	18.2	36.5	U
53469-21-9	Aroclor-1242	ND	18.2	36.5	U
12672-29-6	Aroclor-1248	ND	18.2	36.5	U
11097-69-1	Aroclor-1254	ND	18.2	36.5	U
11096-82-5	Aroclor-1260	ND	18.2	36.5	U
37324-23-5	Aroclor-1262	ND	18.2	36.5	U
11100-14-4	Aroclor-1268	ND	18.2	36.5	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	65.9%	30-150
Tetrachloro-m-xylene [2C]	78.2%	30-150
Decachlorobiphenyl	90.7%	30-150
Decachlorobiphenyl [2C]	98.3%	30-150

* Values outside of QC limits
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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

SEMIVOLATILES

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/26/16 05:30	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 3550B GCMS	File ID:	F14109.D
Prep Batch:	B6H2601	Sequence:	S6H2609	Analyzed:	08/26/16 18:21
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	36.5	183	U
108-95-2	Phenol	ND	36.5	183	U
111-44-4	bis(2-chloroethyl)ether	ND	36.5	183	U
95-57-8	2-Chlorophenol	ND	36.5	183	U
541-73-1	1,3-Dichlorobenzene	ND	36.5	183	U
106-46-7	1,4-Dichlorobenzene	ND	36.5	183	U
100-51-6	Benzyl alcohol	ND	36.5	183	U
95-50-1	1,2-Dichlorobenzene	ND	36.5	183	U
95-48-7	2-Methylphenol	ND	36.5	183	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	36.5	183	U
106-44-5	3 & 4-Methylphenol	ND	36.5	183	U
621-64-7	N-Nitroso-di-n-propylamine	ND	36.5	183	U
67-72-1	Hexachloroethane	ND	36.5	183	U
98-95-3	Nitrobenzene	ND	36.5	183	U
78-59-1	Isophorone	ND	36.5	183	U
88-75-5	2-Nitrophenol	ND	36.5	183	U
105-67-9	2,4-Dimethylphenol	ND	36.5	183	U
65-85-0	Benzoic acid	ND	91.0	365	U
111-91-1	bis(2-chloroethoxy)methane	ND	36.5	183	U
120-83-2	2,4-Dichlorophenol	ND	36.5	183	U
120-82-1	1,2,4-Trichlorobenzene	ND	36.5	183	U
91-20-3	Naphthalene	ND	36.5	183	U
106-47-8	4-Chloroaniline	ND	36.5	183	U
87-68-3	Hexachlorobutadiene	ND	36.5	183	U
59-50-7	4-Chloro-3-methylphenol	ND	36.5	183	U
91-57-6	2-Methylnaphthylene	ND	36.5	183	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/26/16 05:30	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 3550B GCMS	File ID:	F14109.D
Prep Batch:	B6H2601	Sequence:	S6H2609	Analyzed:	08/26/16 18:21
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	36.5	183	U
88-06-2	2,4,6-Trichlorophenol	ND	36.5	183	U
95-95-4	2,4,5-Trichlorophenol	ND	36.5	183	U
91-58-7	2-Chloronaphthalene	ND	36.5	183	U
88-74-4	2-Nitroaniline	ND	36.5	183	U
131-11-3	Dimethylphthalate	ND	36.5	183	U
208-96-8	Acenaphthylene	ND	36.5	183	U
99-09-2	3-Nitroaniline	ND	36.5	183	U
83-32-9	Acenaphthene	ND	36.5	183	U
51-28-5	2,4-Dinitrophenol	ND	36.5	365	U
100-02-7	4-Nitrophenol	ND	36.5	183	U
132-64-9	Dibenzofuran	ND	36.5	183	U
606-20-2	2,6-Dinitrotoluene	ND	36.5	183	U
121-14-2	2,4-Dinitrotoluene	ND	36.5	183	U
84-66-2	Diethyl phthalate	ND	36.5	183	U
7005-72-3	4-Chlorophenyl-phenylether	ND	36.5	183	U
86-73-7	Fluorene	ND	36.5	183	U
100-01-6	4-Nitroaniline	ND	36.5	183	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	36.5	183	U
86-30-6	N-Nitrosodiphenylamine	ND	36.5	183	U
101-55-3	4-Bromophenyl-phenylether	ND	36.5	183	U
118-74-1	Hexachlorobenzene	ND	36.5	183	U
87-86-5	Pentachlorophenol	ND	36.5	183	U
85-01-8	Phenanthrene	ND	36.5	183	U
120-12-7	Anthracene	ND	36.5	183	U
84-74-2	Di-n-butyl phthalate	ND	36.5	183	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/26/16 05:30	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 3550B GCMS	File ID:	F14109.D
Prep Batch:	B6H2601	Sequence:	S6H2609	Analyzed:	08/26/16 18:21
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	ND	36.5	183	U
129-00-0	Pyrene	ND	36.5	183	U
85-68-7	Butylbenzylphthalate	ND	36.5	183	U
91-94-1	3,3'-Dichlorobenzidine	ND	91.0	183	U
56-55-3	Benzo[a]anthracene	ND	36.5	183	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	36.5	183	U
218-01-9	Chrysene	ND	36.5	183	U
117-84-0	Di-n-octyl phthalate	ND	36.5	183	U
205-99-2	Benzo[b]fluoranthene	ND	36.5	183	U
207-08-9	Benzo[k]fluoranthene	ND	36.5	183	U
50-32-8	Benzo[a]pyrene	ND	36.5	183	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	36.5	183	U
53-70-3	Dibenzo(a,h)anthracene	ND	36.5	183	U
191-24-2	Benzo[ghi]perylene	ND	36.5	183	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	72%	30-130
Phenol-d5	76%	30-130
Nitrobenzene-d5	75%	30-130
2-Fluorobiphenyl	69%	30-130
2,4,6-Tribromophenol	75%	30-130
Terphenyl-d14	91%	30-130

* Values outside of QC limits
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U - Indicates compound analyzed for but not detected
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B - Indicates compound found in associated blank
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D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

VOLATILES SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/25/16 17:48	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 5035A	File ID:	A9226.D
Prep Batch:	B6H2515	Sequence:	S6H2507	Analyzed:	08/25/16 17:48
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	5.77	9.62	U
107-13-1	Acrylonitrile	ND	1.92	9.62	U
67-64-1	Acetone	ND	0.962	1.92	U
75-71-8	Dichlorodifluoromethane	ND	0.962	1.92	U
74-87-3	Chloromethane	ND	0.962	1.92	U
75-01-4	Vinyl chloride	ND	0.962	1.92	U
74-83-9	Bromomethane	ND	0.962	1.92	U
75-00-3	Chloroethane	ND	0.962	1.92	U
75-69-4	Trichlorofluoromethane	ND	0.962	1.92	U
75-35-4	1,1-Dichloroethene	ND	0.962	1.92	U
75-15-0	Carbon disulfide	ND	0.962	1.92	U
75-09-2	Methylene Chloride	ND	0.962	1.92	U
156-60-5	trans-1,2-Dichloroethene	ND	0.962	1.92	U
75-34-3	1,1-Dichloroethane	ND	0.962	1.92	U
108-05-4	Vinyl acetate	ND	0.962	1.92	U
590-20-7	2,2-Dichloropropane	ND	0.962	1.92	U
78-93-3	2-Butanone	ND	0.962	1.92	U
156-59-4	cis-1,2-Dichloroethene	ND	0.962	1.92	U
67-66-3	Chloroform	ND	0.962	1.92	U
74-97-5	Bromochloromethane	ND	0.962	1.92	U
71-55-6	1,1,1-Trichloroethane	ND	0.962	1.92	U
563-58-6	1,1-Dichloropropene	ND	0.962	1.92	U
56-23-5	Carbon Tetrachloride	ND	0.962	1.92	U
107-06-2	1,2-Dichloroethane	ND	0.962	1.92	U
71-43-2	Benzene	ND	0.962	1.92	U
79-01-6	Trichloroethene	ND	0.962	1.92	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/25/16 17:48	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 5035A	File ID:	A9226.D
Prep Batch:	B6H2515	Sequence:	S6H2507	Analyzed:	08/25/16 17:48
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	0.962	1.92	U
75-27-4	Bromodichloromethane	ND	0.962	1.92	U
74-95-3	Dibromomethane	ND	0.962	1.92	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.962	1.92	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.962	1.92	U
108-88-3	Toluene	ND	0.962	1.92	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.962	1.92	U
79-00-5	1,1,2-Trichloroethane	ND	0.962	1.92	U
108-10-1	4-Methyl-2-pentanone	ND	0.962	1.92	U
106-93-4	1,2-Dibromoethane	ND	0.962	1.92	U
591-78-6	2-Hexanone	ND	0.962	1.92	U
142-28-9	1,3-Dichloropropane	ND	0.962	1.92	U
127-18-4	Tetrachloroethene	ND	0.962	1.92	U
124-48-1	Dibromochloromethane	ND	0.962	1.92	U
100-41-4	Ethylbenzene	ND	0.962	1.92	U
108-90-7	Chlorobenzene	ND	0.962	1.92	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.962	1.92	U
108-38-3/106-42	m,p-Xylenes	ND	1.92	3.85	U
95-47-6	o-Xylene	ND	1.92	3.85	U
100-42-5	Styrene	ND	0.962	3.85	U
75-25-2	Bromoform	ND	0.962	1.92	U
98-82-8	Isopropylbenzene	ND	0.962	1.92	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.962	1.92	U
96-18-4	1,2,3-Trichloropropane	ND	0.962	1.92	U
103-65-1	n-Propyl Benzene	ND	0.962	1.92	U
108-86-1	Bromobenzene	ND	0.962	1.92	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/25/16 17:48	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 5035A	File ID:	A9226.D
Prep Batch:	B6H2515	Sequence:	S6H2507	Analyzed:	08/25/16 17:48
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	0.962	1.92	U
95-49-8	2-Chlorotoluene	ND	0.962	1.92	U
106-43-4	4-Chlorotoluene	ND	0.962	1.92	U
98-06-6	tert-Butylbenzene	ND	0.962	1.92	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.962	1.92	U
135-98-8	sec-Butylbenzene	ND	0.962	1.92	U
99-87-6	p-Isopropyltoluene	ND	0.962	1.92	U
541-73-1	1,3-Dichlorobenzene	ND	0.962	1.92	U
106-46-7	1,4-Dichlorobenzene	ND	0.962	1.92	U
104-51-8	n-Butyl Benzene	ND	0.962	1.92	U
95-50-1	1,2-Dichlorobenzene	ND	0.962	1.92	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.962	1.92	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.962	1.92	U
87-68-3	Hexachlorobutadiene	ND	0.962	1.92	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.962	1.92	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	104%	70-130
Toluene-d8	99%	70-130
Bromofluorobenzene	86%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Matrix:	Soil
Percent Solids:	91.20	File ID:	082616E-035

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	5240	21.8	21.8	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7439-97-6	Mercury	ND	0.0822	0.0822	1	U	08/26/16 07:17	EPA 7471A	08/26/16 14:09 PRT	EPA 7471
7440-36-0	Antimony	ND	4.36	4.36	1	U	08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-38-2	Arsenic	5.48	1.09	1.09	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-39-3	Barium	37.7	21.8	21.8	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-41-7	Beryllium	ND	0.545	0.545	1	U	08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-43-9	Cadmium	ND	0.545	0.545	1	U	08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-70-2	Calcium	43000	27.2	27.2	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-47-3	Chromium	9.20	2.18	2.18	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-48-4	Cobalt	ND	5.45	5.45	1	U	08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-50-8	Copper	16.2	3.27	3.27	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7439-89-6	Iron	7740	27.2	27.2	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7439-92-1	Lead	11.6	1.09	1.09	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7439-95-4	Magnesium	10700	54.5	54.5	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7439-96-5	Manganese	216	2.18	2.18	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-02-0	Nickel	7.17	4.36	4.36	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-09-7	Potassium	1500	54.5	54.5	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7782-49-2	Selenium	ND	4.36	4.36	1	U	08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-22-4	Silver	ND	0.545	0.545	1	U	08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-23-5	Sodium	147	54.5	54.5	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-28-0	Thallium	ND	1.63	3.27	1	U	08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-62-2	Vanadium	17.1	5.45	5.45	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-66-6	Zinc	31.6	6.54	6.54	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

WET CHEMISTRY

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Matrix:	Soil
Percent Solids:	91.20	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	9.20	1.99	1.99	1		08/26/16 08:47	[CALC]	08/27/16 13:36 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.19	2.19	1	U	08/26/16 08:47	SW 846 3060A	08/27/16 13:36 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.10	1.10	1	U	08/29/16 11:48	EPA 9010C	08/29/16 17:06 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	91.2	0.100	0.100	1		08/26/16 08:30	Percent Solids	08/29/16 09:23 RMK	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

08 September 2016 AAR Work Order: 1601673

Sean Harrison
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736
Project: 255 East 138th Street

Enclosed are the results of analyses for samples received by the laboratory on 08/31/2016 14:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/08/2016 11:16

Analytical Report for Samples

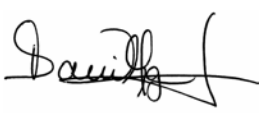
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-26	1601673-01	Soil	08/31/2016 08:56	08/31/2016 14:20

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
B	Indicates compound found in associated blank
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/08/2016 11:16

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/08/2016 11:16

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street
Project Manager: Sean Harrison

Reported:
09/08/2016 11:16

Client ID: EP-26

Lab ID: 1601673-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	6.80	11.3	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.27	11.3	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
67-64-1	**Acetone**	**4.37**	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
78-93-3	2-Butanone	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
71-43-2	Benzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street
Project Manager: Sean Harrison

Reported:
09/08/2016 11:16

Client ID: EP-26

Lab ID: 1601673-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
108-88-3	Toluene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	2.27	4.53	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
95-47-6	o-Xylene	ND	2.27	4.53	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
100-42-5	Styrene	ND	1.13	4.53	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street
Project Manager: Sean Harrison

Reported:
09/08/2016 11:16

Client ID: EP-26

Lab ID: 1601673-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Accredited Analytical Resources LLC										
Volatile Organic Compounds EPA Method SW846 8260										
95-63-6	1,2,4-Trimethylbenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*111 %*	*70-130*		*09/02/16 14:48*	*09/02/16 14:48/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*98 %*	*70-130*		*09/02/16 14:48*	*09/02/16 14:48/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*86 %*	*70-130*		*09/02/16 14:48*	*09/02/16 14:48/SG*	*EPA 8260*	
Semivolatile Organic Compounds EPA Method SW846 8270										
Sample Prepared by Method:EPA 3550B GCMS										
62-75-9	N-Nitrosodimethylamine	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
108-95-2	Phenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U

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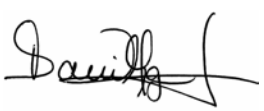

Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street
Project Manager: Sean Harrison

Reported:
09/08/2016 11:16

Client ID: EP-26

Lab ID: 1601673-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
78-59-1	Isophorone	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	95.2	382	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	38.2	382	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street
Project Manager: Sean Harrison

Reported:
09/08/2016 11:16

Client ID: EP-26

Lab ID: 1601673-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7005-72-3	4-Chlorophenyl-phenylether	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
86-73-7	Fluorene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**361**	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	
120-12-7	**Anthracene**	**80.7**	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	J
84-74-2	Di-n-butyl phthalate	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**509**	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	
129-00-0	**Pyrene**	**565**	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	
85-68-7	Butylbenzylphthalate	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	95.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**254**	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	
117-81-7	bis(2-ethylhexyl)phthalate	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
218-01-9	**Chrysene**	**265**	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	
117-84-0	Di-n-octyl phthalate	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
205-99-2	**Benzo[b]fluoranthene**	**269**	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	
207-08-9	**Benzo[k]fluoranthene**	**133**	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	J
50-32-8	**Benzo[a]pyrene**	**237**	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**86.8**	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	J
53-70-3	Dibenzo(a,h)anthracene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
191-24-2	**Benzo[ghi]perylene**	**95.6**	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	J
Surrogate: 2-Fluorophenol				*61 %*	*30-130*		*09/01/16 07:24*	*09/01/16 21:54/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*74 %*	*30-130*		*09/01/16 07:24*	*09/01/16 21:54/JMM*	*EPA 8270*	

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BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street
Project Manager: Sean Harrison

Reported:
09/08/2016 11:16

Client ID: EP-26

Lab ID: 1601673-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: Nitrobenzene-d5				*80 %*	*30-130*		*09/01/16 07:24*	*09/01/16 21:54/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*74 %*	*30-130*		*09/01/16 07:24*	*09/01/16 21:54/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*26 %*	*30-130*	*	*09/01/16 07:24*	*09/01/16 21:54/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*88 %*	*30-130*		*09/01/16 07:24*	*09/01/16 21:54/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	0.757	0.757	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.757	0.757	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.757	0.757	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.757	0.757	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.757	0.757	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.757	0.757	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.757	0.757	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.757	0.757	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.53	1.53	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.53	1.53	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.53	1.53	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.53	1.53	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.53	1.53	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.53	1.53	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.53	1.53	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	2.29	7.64	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.53	1.53	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.53	1.53	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
5103-71-9	**alpha-Chlordane**	**0.917**	0.757	0.757	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	
5566-34-7	gamma-Chlordane	ND	0.757	0.757	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	38.2	38.2	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	19.0	38.2	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U

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Project: 255 East 138th Street
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09/08/2016 11:16

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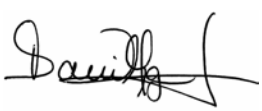
Lab ID: 1601673-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
				Accredited Analytical Resources LLC						
EPA Method SW846 8081/8082										
11104-28-2	Aroclor-1221	ND	19.0	38.2	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	19.0	38.2	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	19.0	38.2	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	19.0	38.2	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	19.0	38.2	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	19.0	38.2	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	19.0	38.2	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	19.0	38.2	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*55.5 %*	*30-150*		*09/06/16 05:29*	*09/06/16 15:02/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*61.9 %*	*30-150*		*09/06/16 05:29*	*09/06/16 15:02/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*63.7 %*	*30-150*		*09/06/16 05:29*	*09/06/16 15:02/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*83.8 %*	*30-150*		*09/06/16 05:29*	*09/06/16 15:02/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**8250**	22.9	22.9	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7440-36-0	Antimony	ND	4.59	4.59	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.62**	1.15	1.15	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7440-39-3	**Barium**	**57.5**	22.9	22.9	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.573	0.573	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.573	0.573	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	U
7440-70-2	**Calcium**	**16300**	28.7	28.7	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7440-47-3	**Chromium**	**15.8**	2.29	2.29	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7440-48-4	**Cobalt**	**7.86**	5.73	5.73	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7440-50-8	**Copper**	**32.7**	3.44	3.44	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7439-89-6	**Iron**	**16800**	28.7	28.7	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7439-92-1	**Lead**	**62.8**	1.15	1.15	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7439-95-4	**Magnesium**	**7840**	57.3	57.3	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	

Accredited Analytical Resources LLC



Daniel Miguel, Technical Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/08/2016 11:16

Client ID: EP-26

Lab ID: 1601673-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
				Accredited Analytical Resources LLC						
Total Metals by EPA Method SW846 6010										
7439-96-5	**Manganese**	**295**	2.29	2.29	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7440-02-0	**Nickel**	**13.7**	4.59	4.59	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7440-09-7	**Potassium**	**1560**	57.3	57.3	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7782-49-2	Selenium	ND	4.59	4.59	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.573	0.573	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	U
7440-23-5	**Sodium**	**228**	57.3	57.3	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7440-28-0	Thallium	ND	1.72	3.44	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**23.3**	5.73	5.73	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7440-66-6	**Zinc**	**71.8**	6.88	6.88	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.0860	0.0860	mg/kg dry	1	09/01/16 12:18	09/02/16 10:44/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:[CALC]										
16065-83-1	**Trivalent Chromium**	**15.8**	2.00	2.00	mg/kg dry	1	09/06/16 12:10	09/07/16 14:37/NNM	[CALC]	
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.15	1.15	mg/kg dry	1	08/31/16 15:24	09/07/16 10:28/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**87.2**	0.100	0.100	%	1	09/01/16 13:50	09/02/16 10:53/KMC	SM 2540 G	
Sample Prepared by Method:SW 846 3060A										
1854-02-99	Chromium, Hexavalent	ND	2.29	2.29	mg/kg dry	1	09/06/16 12:10	09/07/16 14:37/NNM	EPA 7196A	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732)223-2225
OFFICE FAX #	(732)223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1631673
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-26	8/31/16 0856	S	4-4	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____
CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ___ REDUCED ___ FULL X EDD ___ EXCEL SPREADSHEET ___

COMMENTS: NYSDEC Category B Data Deliverables. Hard Copy report due four (4) weeks from today

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathon Kraus SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathon Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 8/31/16	Time: 1400	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601701

Client Sample ID:	Lab Sample ID:
EP-27	1601701-01

This data has been reviewed and accepted by:

Daniel Miguel 09/12/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Accredited Analytical Resources, LLC.

Methodology Summary

EPA Method SW846 8081/8082:
NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:
NJ 8270C
NY 8270D

Total Mercury by SW846 7471:
NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:
NJ 8260B
NY 8260C

Wet Chemistry:
Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources, LLC.

Internal Chain of Custody

1601701-01 (A)	*Out*	*In*
START	9/7/16 15:14 by KI	9/7/16 15:14 by KI
1601701-01 (B)	*Out*	*In*
START	9/7/16 15:14 by KI	9/7/16 15:14 by KI
1601701-01 (C)	*Out*	*In*
START	9/7/16 15:14 by KI	9/7/16 15:14 by KI
Wets	9/8/16 12:22 by KMC	9/8/16 12:51 by KMC
Extractions	9/9/16 5:28 by ECS	9/9/16 6:53 by ECS
1601701-01 (D)	*Out*	*In*
START	9/7/16 15:14 by KI	9/7/16 15:14 by KI
Metals	9/9/16 9:03 by LIT	9/9/16 9:32 by LIT
Walk-In Storage	9/9/16 9:32 by PRT	9/9/16 10:32 by PRT
Wets	9/12/16 9:20 by NNM	by NNM

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1601701**

Received: 9/7/16 14:15

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	BrinKerhoff Environmental
ADDRESS:	1505 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey
ZIP:	07756

AAR QUOTE #	
AAR WORK ORDER #	1601701
P.O. #	10BR188

ANALYSIS

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	PRES. CODE → / CONT. CODE → TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-27	9/6/16 1247	S	16'	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____
CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD	5 DAY	72 HRS.	48 HRS.	24 HRS.	OTHER 36 hr JK 9/7/16
			(IF BLANK STANDARD WILL APPLY)			
REPORT TYPE:	RESULTS ONLY ____	REDUCED ____	FULL X	EDD ____	EXCEL SPREADSHEET ____	

COMMENTS: NYS DEC Catagory B Data Deliverables. Hard Copy report due 4 weeks from today. COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY CUSTODY MUST BE DOCUMENTED

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: B. O'Gara	Print Name:	Print Name:
Signature: [signature]	Signature: [signature]	Signature:	Signature:
Agent of: BrinKerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 9 / 7 / 16	Time: 14:15	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-27	1601701-01	Soil	09/06/2016 12:47	09/07/2016 14:15

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

PEST/PCB

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/09/16 05:25	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 3550B	File ID:	A23027.D
Prep Batch:	B6I0902	Sequence:	S6I0901	Analyzed:	09/09/16 17:09
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.900	0.900	U
319-85-7	beta-BHC	ND	0.900	0.900	U
319-86-8	delta-BHC	ND	0.900	0.900	U
58-89-9	gamma-BHC [Lindane]	ND	0.900	0.900	U
76-44-8	Heptachlor	ND	0.900	0.900	U
309-00-2	Aldrin	ND	0.900	0.900	U
1024-57-3	Heptachlor Epoxide	ND	0.900	0.900	U
959-98-8	Endosulfan I	ND	0.900	0.900	U
60-57-1	Dieldrin	ND	1.81	1.81	U
72-55-9	4,4'-DDE	ND	1.81	1.81	U
72-20-8	Endrin	ND	1.81	1.81	U
33213-65-9	Endosulfan II	ND	1.81	1.81	U
72-54-8	4,4'-DDD	ND	1.81	1.81	U
1031-07-8	Endosulfan sulfate	ND	1.81	1.81	U
50-29-3	4,4'-DDT	ND	1.81	1.81	U
72-43-5	Methoxychlor	ND	2.73	9.09	U
53494-70-5	Endrin ketone	ND	1.81	1.81	U
7421-93-4	Endrin aldehyde	ND	1.81	1.81	U
5103-71-9	alpha-Chlordane	ND	0.900	0.900	U
5566-34-7	gamma-Chlordane	ND	0.900	0.900	U
8001-35-2	Toxaphene	ND	45.4	45.4	U
12674-11-2	Aroclor-1016	ND	22.6	45.4	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/09/16 05:25	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 3550B	File ID:	A23027.D
Prep Batch:	B6I0902	Sequence:	S6I0901	Analyzed:	09/09/16 17:09
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	22.6	45.4	U
11141-16-5	Aroclor-1232	ND	22.6	45.4	U
53469-21-9	Aroclor-1242	ND	22.6	45.4	U
12672-29-6	Aroclor-1248	ND	22.6	45.4	U
11097-69-1	Aroclor-1254	ND	22.6	45.4	U
11096-82-5	Aroclor-1260	ND	22.6	45.4	U
37324-23-5	Aroclor-1262	ND	22.6	45.4	U
11100-14-4	Aroclor-1268	ND	22.6	45.4	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	56.7%	30-150
Tetrachloro-m-xylene [2C]	69.5%	30-150
Decachlorobiphenyl	72.4%	30-150
Decachlorobiphenyl [2C]	84.0%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

SEMIVOLATILES

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/09/16 05:22	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 3550B GCMS	File ID:	F14237.D
Prep Batch:	B6I0901	Sequence:	S6I0915	Analyzed:	09/09/16 23:17
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	45.4	228	U
108-95-2	Phenol	ND	45.4	228	U
111-44-4	bis(2-chloroethyl)ether	ND	45.4	228	U
95-57-8	2-Chlorophenol	ND	45.4	228	U
541-73-1	1,3-Dichlorobenzene	ND	45.4	228	U
106-46-7	1,4-Dichlorobenzene	ND	45.4	228	U
100-51-6	Benzyl alcohol	ND	45.4	228	U
95-50-1	1,2-Dichlorobenzene	ND	45.4	228	U
95-48-7	2-Methylphenol	ND	45.4	228	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	45.4	228	U
106-44-5	3 & 4-Methylphenol	ND	45.4	228	U
621-64-7	N-Nitroso-di-n-propylamine	ND	45.4	228	U
67-72-1	Hexachloroethane	ND	45.4	228	U
98-95-3	Nitrobenzene	ND	45.4	228	U
78-59-1	Isophorone	ND	45.4	228	U
88-75-5	2-Nitrophenol	ND	45.4	228	U
105-67-9	2,4-Dimethylphenol	ND	45.4	228	U
65-85-0	Benzoic acid	ND	113	454	U
111-91-1	bis(2-chloroethoxy)methane	ND	45.4	228	U
120-83-2	2,4-Dichlorophenol	ND	45.4	228	U
120-82-1	1,2,4-Trichlorobenzene	ND	45.4	228	U
91-20-3	Naphthalene	ND	45.4	228	U
106-47-8	4-Chloroaniline	ND	45.4	228	U
87-68-3	Hexachlorobutadiene	ND	45.4	228	U
59-50-7	4-Chloro-3-methylphenol	ND	45.4	228	U
91-57-6	2-Methylnaphthylene	ND	45.4	228	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/09/16 05:22	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 3550B GCMS	File ID:	F14237.D
Prep Batch:	B6I0901	Sequence:	S6I0915	Analyzed:	09/09/16 23:17
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	45.4	228	U
88-06-2	2,4,6-Trichlorophenol	ND	45.4	228	U
95-95-4	2,4,5-Trichlorophenol	ND	45.4	228	U
91-58-7	2-Chloronaphthalene	ND	45.4	228	U
88-74-4	2-Nitroaniline	ND	45.4	228	U
131-11-3	Dimethylphthalate	ND	45.4	228	U
208-96-8	Acenaphthylene	ND	45.4	228	U
99-09-2	3-Nitroaniline	ND	45.4	228	U
83-32-9	Acenaphthene	ND	45.4	228	U
51-28-5	2,4-Dinitrophenol	ND	45.4	454	U
100-02-7	4-Nitrophenol	ND	45.4	228	U
132-64-9	Dibenzofuran	ND	45.4	228	U
606-20-2	2,6-Dinitrotoluene	ND	45.4	228	U
121-14-2	2,4-Dinitrotoluene	ND	45.4	228	U
84-66-2	Diethyl phthalate	ND	45.4	228	U
7005-72-3	4-Chlorophenyl-phenylether	ND	45.4	228	U
86-73-7	Fluorene	ND	45.4	228	U
100-01-6	4-Nitroaniline	ND	45.4	228	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	45.4	228	U
86-30-6	N-Nitrosodiphenylamine	ND	45.4	228	U
101-55-3	4-Bromophenyl-phenylether	ND	45.4	228	U
118-74-1	Hexachlorobenzene	ND	45.4	228	U
87-86-5	Pentachlorophenol	ND	45.4	228	U
85-01-8	Phenanthrene	118	45.4	228	J
120-12-7	Anthracene	ND	45.4	228	U
84-74-2	Di-n-butyl phthalate	ND	45.4	228	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/09/16 05:22	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 3550B GCMS	File ID:	F14237.D
Prep Batch:	B6I0901	Sequence:	S6I0915	Analyzed:	09/09/16 23:17
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	178	45.4	228	J
129-00-0	Pyrene	162	45.4	228	J
85-68-7	Butylbenzylphthalate	ND	45.4	228	U
91-94-1	3,3'-Dichlorobenzidine	ND	113	228	U
56-55-3	Benzo[a]anthracene	84.6	45.4	228	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	45.4	228	U
218-01-9	Chrysene	94.1	45.4	228	J
117-84-0	Di-n-octyl phthalate	ND	45.4	228	U
205-99-2	Benzo[b]fluoranthene	99.6	45.4	228	J
207-08-9	Benzo[k]fluoranthene	ND	45.4	228	U
50-32-8	Benzo[a]pyrene	77.3	45.4	228	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	45.4	228	U
53-70-3	Dibenzo(a,h)anthracene	ND	45.4	228	U
191-24-2	Benzo[ghi]perylene	ND	45.4	228	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	93%	30-130
Phenol-d5	92%	30-130
Nitrobenzene-d5	52%	30-130
2-Fluorobiphenyl	51%	30-130
2,4,6-Tribromophenol	94%	30-130
Terphenyl-d14	92%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

VOLATILES SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/08/16 15:03	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 5035A	File ID:	A9386.D
Prep Batch:	B6I0815	Sequence:	S6I0807	Analyzed:	09/08/16 15:03
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	8.42	14.0	U
107-13-1	Acrylonitrile	ND	2.81	14.0	U
67-64-1	Acetone	8.27	1.40	2.81	
75-71-8	Dichlorodifluoromethane	ND	1.40	2.81	U
74-87-3	Chloromethane	ND	1.40	2.81	U
75-01-4	Vinyl chloride	ND	1.40	2.81	U
74-83-9	Bromomethane	ND	1.40	2.81	U
75-00-3	Chloroethane	ND	1.40	2.81	U
75-69-4	Trichlorofluoromethane	ND	1.40	2.81	U
75-35-4	1,1-Dichloroethene	ND	1.40	2.81	U
75-15-0	Carbon disulfide	ND	1.40	2.81	U
75-09-2	Methylene Chloride	ND	1.40	2.81	U
156-60-5	trans-1,2-Dichloroethene	ND	1.40	2.81	U
75-34-3	1,1-Dichloroethane	ND	1.40	2.81	U
108-05-4	Vinyl acetate	ND	1.40	2.81	U
590-20-7	2,2-Dichloropropane	ND	1.40	2.81	U
78-93-3	2-Butanone	ND	1.40	2.81	U
156-59-4	cis-1,2-Dichloroethene	ND	1.40	2.81	U
67-66-3	Chloroform	ND	1.40	2.81	U
74-97-5	Bromochloromethane	ND	1.40	2.81	U
71-55-6	1,1,1-Trichloroethane	ND	1.40	2.81	U
563-58-6	1,1-Dichloropropene	ND	1.40	2.81	U
56-23-5	Carbon Tetrachloride	ND	1.40	2.81	U
107-06-2	1,2-Dichloroethane	ND	1.40	2.81	U
71-43-2	Benzene	ND	1.40	2.81	U
79-01-6	Trichloroethene	ND	1.40	2.81	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/08/16 15:03	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 5035A	File ID:	A9386.D
Prep Batch:	B6I0815	Sequence:	S6I0807	Analyzed:	09/08/16 15:03
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.40	2.81	U
75-27-4	Bromodichloromethane	ND	1.40	2.81	U
74-95-3	Dibromomethane	ND	1.40	2.81	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.40	2.81	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.40	2.81	U
108-88-3	Toluene	ND	1.40	2.81	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.40	2.81	U
79-00-5	1,1,2-Trichloroethane	ND	1.40	2.81	U
108-10-1	4-Methyl-2-pentanone	ND	1.40	2.81	U
106-93-4	1,2-Dibromoethane	ND	1.40	2.81	U
591-78-6	2-Hexanone	ND	1.40	2.81	U
142-28-9	1,3-Dichloropropane	ND	1.40	2.81	U
127-18-4	Tetrachloroethene	ND	1.40	2.81	U
124-48-1	Dibromochloromethane	ND	1.40	2.81	U
100-41-4	Ethylbenzene	ND	1.40	2.81	U
108-90-7	Chlorobenzene	ND	1.40	2.81	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.40	2.81	U
108-38-3/106-42	m,p-Xylenes	ND	2.81	5.61	U
95-47-6	o-Xylene	ND	2.81	5.61	U
100-42-5	Styrene	ND	1.40	5.61	U
75-25-2	Bromoform	ND	1.40	2.81	U
98-82-8	Isopropylbenzene	ND	1.40	2.81	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.40	2.81	U
96-18-4	1,2,3-Trichloropropane	ND	1.40	2.81	U
103-65-1	n-Propyl Benzene	ND	1.40	2.81	U
108-86-1	Bromobenzene	ND	1.40	2.81	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/08/16 15:03	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 5035A	File ID:	A9386.D
Prep Batch:	B6I0815	Sequence:	S6I0807	Analyzed:	09/08/16 15:03
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.40	2.81	U
95-49-8	2-Chlorotoluene	ND	1.40	2.81	U
106-43-4	4-Chlorotoluene	ND	1.40	2.81	U
98-06-6	tert-Butylbenzene	ND	1.40	2.81	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.40	2.81	U
135-98-8	sec-Butylbenzene	ND	1.40	2.81	U
99-87-6	p-Isopropyltoluene	ND	1.40	2.81	U
541-73-1	1,3-Dichlorobenzene	ND	1.40	2.81	U
106-46-7	1,4-Dichlorobenzene	ND	1.40	2.81	U
104-51-8	n-Butyl Benzene	ND	1.40	2.81	U
95-50-1	1,2-Dichlorobenzene	ND	1.40	2.81	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.40	2.81	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.40	2.81	U
87-68-3	Hexachlorobutadiene	ND	1.40	2.81	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.40	2.81	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	109%	70-130
Toluene-d8	95%	70-130
Bromofluorobenzene	89%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Matrix:	Soil
Percent Solids:	73.30	File ID:	091216A-017

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	10600	20.2	20.2	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7439-97-6	Mercury	0.164	0.102	0.102	1		09/09/16 09:31	EPA 7471A	09/09/16 12:07 PRT	EPA 7471
7440-36-0	Antimony	ND	4.04	4.04	1	U	09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-38-2	Arsenic	2.53	1.01	1.01	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-39-3	Barium	58.5	20.2	20.2	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.505	0.505	1	U	09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-43-9	Cadmium	0.890	0.505	0.505	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-70-2	Calcium	11800	25.2	25.2	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-47-3	Chromium	17.0	2.02	2.02	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-48-4	Cobalt	8.34	5.05	5.05	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-50-8	Copper	18.9	3.03	3.03	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7439-89-6	Iron	15200	25.2	25.2	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7439-92-1	Lead	31.0	1.01	1.01	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7439-95-4	Magnesium	8860	50.5	50.5	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7439-96-5	Manganese	473	2.02	2.02	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-02-0	Nickel	14.1	4.04	4.04	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-09-7	Potassium	1410	50.5	50.5	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7782-49-2	Selenium	ND	4.04	4.04	1	U	09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-22-4	Silver	ND	0.505	0.505	1	U	09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-23-5	Sodium	201	50.5	50.5	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-28-0	Thallium	ND	1.51	3.03	1	U	09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-62-2	Vanadium	25.6	5.05	5.05	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-66-6	Zinc	55.1	6.06	6.06	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

WET CHEMISTRY

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled: 09/06/16 12:47 Matrix: Soil
Percent Solids: 73.30 File ID:

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	17.0	1.48	1.48	1		09/12/16 09:31	[CALC]	09/12/16 17:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.73	2.73	1	U	09/12/16 09:31	SW 846 3060A	09/12/16 17:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.36	1.36	1	U	09/12/16 09:24	EPA 9010C	09/12/16 15:07 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	73.3	0.100	0.100	1		09/08/16 12:20	Percent Solids	09/09/16 09:44 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

16 September 2016 AAR Work Order: 1601734

Sean Harrison
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736
Project: 255 East 138th Street

Enclosed are the results of analyses for samples received by the laboratory on 09/09/2016 14:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 08:20

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-28	1601734-01	Soil	09/09/2016 09:30	09/09/2016 14:20

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 08:20

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

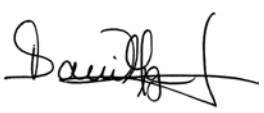
Project: 255 East 138th Street
Project Manager: Sean Harrison

Reported:
09/16/2016 08:20

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources LLC



Daniel Miguel, Technical Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street
Project Manager: Sean Harrison

Reported:
09/16/2016 08:20

Client ID: EP-28

Lab ID: 1601734-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	7.28	12.1	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.43	12.1	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
67-64-1	**Acetone**	**60.8**	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	
75-71-8	Dichlorodifluoromethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
78-93-3	**2-Butanone**	**17.1**	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	
156-59-4	cis-1,2-Dichloroethene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
71-43-2	Benzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U

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Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street
Project Manager: Sean Harrison

Reported:
09/16/2016 08:20

Client ID: EP-28

Lab ID: 1601734-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
108-88-3	Toluene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	2.43	4.85	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
95-47-6	o-Xylene	ND	2.43	4.85	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
100-42-5	Styrene	ND	1.21	4.85	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street
Project Manager: Sean Harrison

Reported:
09/16/2016 08:20

Client ID: EP-28

Lab ID: 1601734-01 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Volatile Organic Compounds EPA Method SW846 8260										
95-63-6	1,2,4-Trimethylbenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*109 %*	*70-130*		*09/09/16 20:19*	*09/09/16 20:19/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*97 %*	*70-130*		*09/09/16 20:19*	*09/09/16 20:19/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*86 %*	*70-130*		*09/09/16 20:19*	*09/09/16 20:19/SG*	*EPA 8260*	
Semivolatile Organic Compounds EPA Method SW846 8270										
Sample Prepared by Method:EPA 3550B GCMS										
62-75-9	N-Nitrosodimethylamine	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
108-95-2	Phenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U

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1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street
Project Manager: Sean Harrison

Reported:
09/16/2016 08:20

Client ID: EP-28

Lab ID: 1601734-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
78-59-1	Isophorone	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	97.3	390	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	39.0	390	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U

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1805 Atlantic Ave.
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Project: 255 East 138th Street
Project Manager: Sean Harrison

Reported:
09/16/2016 08:20

Client ID: EP-28

Lab ID: 1601734-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7005-72-3	4-Chlorophenyl-phenylether	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
86-73-7	Fluorene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
85-01-8	Phenanthrene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
120-12-7	Anthracene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
129-00-0	Pyrene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
85-68-7	Butylbenzylphthalate	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	97.3	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
218-01-9	Chrysene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*73 %*	*30-130*		*09/12/16 05:32*	*09/12/16 18:09/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*73 %*	*30-130*		*09/12/16 05:32*	*09/12/16 18:09/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*77 %*	*30-130*		*09/12/16 05:32*	*09/12/16 18:09/JMM*	*EPA 8270*	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street
Project Manager: Sean Harrison

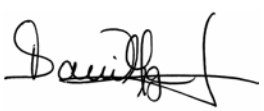
Reported:
09/16/2016 08:20

Client ID: EP-28

Lab ID: 1601734-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: 2-Fluorobiphenyl				*68 %*	*30-130*		*09/12/16 05:32*	*09/12/16 18:09/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*75 %*	*30-130*		*09/12/16 05:32*	*09/12/16 18:09/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*102 %*	*30-130*		*09/12/16 05:32*	*09/12/16 18:09/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	0.774	0.774	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.774	0.774	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.774	0.774	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.774	0.774	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.774	0.774	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.774	0.774	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.774	0.774	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.774	0.774	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.56	1.56	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.56	1.56	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.56	1.56	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.56	1.56	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.56	1.56	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.56	1.56	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.56	1.56	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	2.34	7.81	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.56	1.56	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.56	1.56	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.774	0.774	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.774	0.774	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	39.0	39.0	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	19.5	39.0	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	19.5	39.0	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U

Accredited Analytical Resources LLC



Daniel Miguel, Technical Director

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Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street
Project Manager: Sean Harrison

Reported:
09/16/2016 08:20

Client ID: EP-28

Lab ID: 1601734-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
					Accredited Analytical Resources LLC					
EPA Method SW846 8081/8082										
11141-16-5	Aroclor-1232	ND	19.5	39.0	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	19.5	39.0	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	19.5	39.0	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	19.5	39.0	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	19.5	39.0	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	19.5	39.0	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	19.5	39.0	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*73.3 %*	*30-150*		*09/12/16 05:36*	*09/12/16 14:30/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*84.5 %*	*30-150*		*09/12/16 05:36*	*09/12/16 14:30/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*91.0 %*	*30-150*		*09/12/16 05:36*	*09/12/16 14:30/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*99.0 %*	*30-150*		*09/12/16 05:36*	*09/12/16 14:30/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**11500**	19.3	19.3	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7440-36-0	Antimony	ND	3.87	3.87	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.32**	0.967	0.967	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7440-39-3	**Barium**	**57.3**	19.3	19.3	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.484	0.484	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	U
7440-43-9	**Cadmium**	**0.667**	0.484	0.484	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7440-70-2	**Calcium**	**4100**	24.2	24.2	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7440-47-3	**Chromium**	**22.8**	1.93	1.93	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7440-48-4	**Cobalt**	**9.35**	4.84	4.84	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7440-50-8	**Copper**	**17.8**	2.90	2.90	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7439-89-6	**Iron**	**18800**	24.2	24.2	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7439-92-1	**Lead**	**13.0**	0.967	0.967	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7439-95-4	**Magnesium**	**7030**	48.4	48.4	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7439-96-5	**Manganese**	**557**	1.93	1.93	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street
Project Manager: Sean Harrison

Reported:
09/16/2016 08:20

Client ID: EP-28

Lab ID: 1601734-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
				Accredited Analytical Resources LLC						
Total Metals by EPA Method SW846 6010										
7440-02-0	**Nickel**	**15.8**	3.87	3.87	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7440-09-7	**Potassium**	**1840**	48.4	48.4	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7782-49-2	Selenium	ND	3.87	3.87	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.484	0.484	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	U
7440-23-5	**Sodium**	**166**	48.4	48.4	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7440-28-0	Thallium	ND	1.45	2.90	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**31.6**	4.84	4.84	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7440-66-6	**Zinc**	**46.1**	5.80	5.80	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.0879	0.0879	mg/kg dry	1	09/12/16 08:53	09/12/16 14:22/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:[CALC]										
16065-83-1	**Trivalent Chromium**	**22.8**	1.65	1.65	mg/kg dry	1	09/12/16 09:31	09/13/16 16:58/NNM	[CALC]	
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.17	1.17	mg/kg dry	1	09/12/16 09:24	09/12/16 15:07/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**85.3**	0.100	0.100	%	1	09/09/16 16:18	09/12/16 09:37/KMC	SM 2540 G	
Sample Prepared by Method:SW 846 3060A										
1854-02-99	Chromium, Hexavalent	ND	2.34	2.34	mg/kg dry	1	09/12/16 09:31	09/12/16 17:08/NNM	EPA 7196A	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	sharrison@brinkenv.com
EMAIL FOR INVOICE:	same

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1601734
P.O. #	10BR188

ANALYSIS

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	PRES. CODE → / CONT. CODE → TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-28	9/9/16 1330	S	9-10	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Category B Data Deliverables. Hard Copy Report due four(4) weeks from today.

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Rachael Barr SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Rachael Barr	Print Name: W. K. Kuniz	Print Name:	Print Name:
Signature: [signature]	Signature: W. K. Kuniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 9/9/16	Time: 1420	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

16 September 2016 AAR Work Order: 1601751

Sean Harrison
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736
Project: 255 E. 138th Street

Enclosed are the results of analyses for samples received by the laboratory on 09/13/2016 14:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-29	1601751-01	Soil	09/13/2016 12:10	09/13/2016 14:50
EP-30	1601751-02	Soil	09/13/2016 12:25	09/13/2016 14:50

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
D	Data reported from a dilution
B	Indicates compound found in associated blank
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 E. 138th Street
Project Manager: Sean Harrison

Reported:
09/16/2016 14:55

Client ID: EP-29

Lab ID: 1601751-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	9.18	15.3	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	3.06	15.3	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
67-64-1	**Acetone**	**91.0**	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	
75-71-8	Dichlorodifluoromethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
78-93-3	**2-Butanone**	**11.0**	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	
156-59-4	cis-1,2-Dichloroethene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
71-43-2	Benzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 E. 138th Street
Project Manager: Sean Harrison

Reported:
09/16/2016 14:55

Client ID: EP-29

Lab ID: 1601751-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
108-88-3	**Toluene**	**2.19**	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
100-41-4	**Ethylbenzene**	**1.99**	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	J
108-90-7	Chlorobenzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
108-38-3/106-4	**m,p-Xylenes**	**9.16**	3.06	6.12	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	
95-47-6	**o-Xylene**	**4.44**	3.06	6.12	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	J
100-42-5	Styrene	ND	1.53	6.12	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
108-67-8	**1,3,5-Trimethylbenzene**	**2.84**	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	J
95-49-8	2-Chlorotoluene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 E. 138th Street
Project Manager: Sean Harrison

Reported:
09/16/2016 14:55

Client ID: EP-29

Lab ID: 1601751-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
				Accredited Analytical Resources LLC						
Volatile Organic Compounds EPA Method SW846 8260										
98-06-6	tert-Butylbenzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
95-63-6	**1,2,4-Trimethylbenzene**	**8.90**	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	
135-98-8	sec-Butylbenzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*115 %*	*70-130*		*09/13/16 20:19*	*09/13/16 20:19/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*97 %*	*70-130*		*09/13/16 20:19*	*09/13/16 20:19/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*93 %*	*70-130*		*09/13/16 20:19*	*09/13/16 20:19/SG*	*EPA 8260*	
Semivolatile Organic Compounds EPA Method SW846 8270										
Sample Prepared by Method:EPA 3550B GCMS										
62-75-9	N-Nitrosodimethylamine	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
108-95-2	**Phenol**	**164**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	J
111-44-4	bis(2-chloroethyl)ether	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U

Accredited Analytical Resources LLC

Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 E. 138th Street
Project Manager: Sean Harrison

Reported:
09/16/2016 14:55

Client ID: EP-29

Lab ID: 1601751-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
106-44-5	3 & 4-Methylphenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
67-72-1	Hexachloroethane	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
78-59-1	Isophorone	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	119	476	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
91-20-3	**Naphthalene**	**51.4**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	J
106-47-8	4-Chloroaniline	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
83-32-9	**Acenaphthene**	**79.5**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	J
51-28-5	2,4-Dinitrophenol	ND	47.6	476	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 E. 138th Street
Project Manager: Sean Harrison

Reported:
09/16/2016 14:55

Client ID: EP-29

Lab ID: 1601751-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
606-20-2	2,6-Dinitrotoluene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
86-73-7	**Fluorene**	**72.4**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	J
100-01-6	4-Nitroaniline	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**1020**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	
120-12-7	**Anthracene**	**135**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	J
84-74-2	Di-n-butyl phthalate	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**1150**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	
129-00-0	**Pyrene**	**933**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	
85-68-7	Butylbenzylphthalate	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	119	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**420**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	
117-81-7	**bis(2-ethylhexyl)phthalate**	**142**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	J
218-01-9	**Chrysene**	**486**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	
117-84-0	Di-n-octyl phthalate	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
205-99-2	**Benzo[b]fluoranthene**	**525**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	
207-08-9	**Benzo[k]fluoranthene**	**189**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	J
50-32-8	**Benzo[a]pyrene**	**387**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**200**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	J
53-70-3	**Dibenzo(a,h)anthracene**	**55.2**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	J

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Client ID: EP-29

Lab ID: 1601751-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
191-24-2	**Benzo[ghi]perylene**	**212**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	J
Surrogate: 2-Fluorophenol				*38 %*	*30-130*		*09/14/16 05:36*	*09/15/16 19:20/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*51 %*	*30-130*		*09/14/16 05:36*	*09/15/16 19:20/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*53 %*	*30-130*		*09/14/16 05:36*	*09/15/16 19:20/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*54 %*	*30-130*		*09/14/16 05:36*	*09/15/16 19:20/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*10 %*	*30-130*	*	*09/14/16 05:36*	*09/15/16 19:20/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*87 %*	*30-130*		*09/14/16 05:36*	*09/15/16 19:20/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	0.943	0.943	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.943	0.943	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.943	0.943	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.943	0.943	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.943	0.943	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.943	0.943	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.943	0.943	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.943	0.943	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.90	1.90	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.90	1.90	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.90	1.90	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.90	1.90	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.90	1.90	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.90	1.90	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.90	1.90	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	2.86	9.51	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.90	1.90	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.90	1.90	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.943	0.943	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 E. 138th Street
Project Manager: Sean Harrison

Reported:
09/16/2016 14:55

Client ID: EP-29

Lab ID: 1601751-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Accredited Analytical Resources LLC										
EPA Method SW846 8081/8082										
5566-34-7	gamma-Chlordane	ND	0.943	0.943	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	47.6	47.6	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	23.7	47.6	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	23.7	47.6	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	23.7	47.6	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	23.7	47.6	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	23.7	47.6	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	23.7	47.6	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	23.7	47.6	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	23.7	47.6	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	23.7	47.6	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*73.3 %*	*30-150*		*09/14/16 05:34*	*09/14/16 15:50/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*85.8 %*	*30-150*		*09/14/16 05:34*	*09/14/16 15:50/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*90.2 %*	*30-150*		*09/14/16 05:34*	*09/14/16 15:50/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*115 %*	*30-150*		*09/14/16 05:34*	*09/14/16 15:50/JAM*	*EPA 8081/8082*	

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BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 E. 138th Street
Project Manager: Sean Harrison

Reported:
09/16/2016 14:55

Client ID: EP-29

Lab ID: 1601751-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
					Accredited Analytical Resources LLC					
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**9540**	16.9	16.9	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7440-36-0	Antimony	ND	3.37	3.37	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**4.18**	0.843	0.843	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7440-39-3	**Barium**	**70.9**	16.9	16.9	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.421	0.421	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	U
7440-43-9	**Cadmium**	**0.886**	0.421	0.421	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7440-70-2	**Calcium**	**30600**	527	527	mg/kg dry	25	09/13/16 14:59	09/14/16 11:22/LIT	EPA 6010	D
7440-47-3	**Chromium**	**18.2**	1.69	1.69	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7440-48-4	**Cobalt**	**7.75**	4.21	4.21	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7440-50-8	**Copper**	**31.7**	2.53	2.53	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7439-89-6	**Iron**	**17900**	21.1	21.1	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7439-92-1	**Lead**	**65.6**	0.843	0.843	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7439-95-4	**Magnesium**	**10900**	42.1	42.1	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7439-96-5	**Manganese**	**307**	1.69	1.69	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7440-02-0	**Nickel**	**15.6**	3.37	3.37	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7440-09-7	**Potassium**	**1750**	42.1	42.1	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7782-49-2	Selenium	ND	3.37	3.37	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.421	0.421	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	U
7440-23-5	**Sodium**	**355**	42.1	42.1	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7440-28-0	Thallium	ND	1.26	2.53	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**23.6**	4.21	4.21	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7440-66-6	**Zinc**	**74.5**	5.06	5.06	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	**Mercury**	**0.149**	0.107	0.107	mg/kg dry	1	09/15/16 08:08	09/15/16 11:45/PRT	EPA 7471	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Client ID: EP-29

Lab ID: 1601751-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
					Accredited Analytical Resources LLC					
Wet Chemistry										
Sample Prepared by Method:[CALC]										
16065-83-1	**Trivalent Chromium**	**18.2**	1.18	1.18	mg/kg dry	1	09/13/16 15:42	09/14/16 17:12/NNM	[CALC]	
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.43	1.43	mg/kg dry	1	09/13/16 15:41	09/13/16 17:44/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**70.0**	0.100	0.100	%	1	09/14/16 09:41	09/15/16 10:45/KMC	SM 2540 G	
Sample Prepared by Method:SW 846 3060A										
1854-02-99	Chromium, Hexavalent	ND	2.86	2.86	mg/kg dry	1	09/13/16 15:42	09/14/16 17:12/NNM	EPA 7196A	

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 E. 138th Street
Project Manager: Sean Harrison

Reported:
09/16/2016 14:55

Client ID: EP-30

Lab ID: 1601751-02 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	7.50	12.5	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.50	12.5	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
67-64-1	**Acetone**	**23.4**	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	
75-71-8	Dichlorodifluoromethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
78-93-3	2-Butanone	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
71-43-2	Benzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 E. 138th Street
Project Manager: Sean Harrison

Reported:
09/16/2016 14:55

Client ID: EP-30

Lab ID: 1601751-02 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
108-88-3	Toluene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	2.50	5.00	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
95-47-6	o-Xylene	ND	2.50	5.00	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
100-42-5	Styrene	ND	1.25	5.00	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 E. 138th Street
Project Manager: Sean Harrison

Reported:
09/16/2016 14:55

Client ID: EP-30

Lab ID: 1601751-02 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*121 %*	*70-130*		*09/13/16 20:50*	*09/13/16 20:50/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*96 %*	*70-130*		*09/13/16 20:50*	*09/13/16 20:50/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*83 %*	*70-130*		*09/13/16 20:50*	*09/13/16 20:50/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
108-95-2	Phenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 E. 138th Street
Project Manager: Sean Harrison

Reported:
09/16/2016 14:55

Client ID: EP-30

Lab ID: 1601751-02 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
78-59-1	Isophorone	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	111	447	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	44.7	447	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 E. 138th Street
Project Manager: Sean Harrison

Reported:
09/16/2016 14:55

Client ID: EP-30

Lab ID: 1601751-02 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7005-72-3	4-Chlorophenyl-phenylether	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
86-73-7	Fluorene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**236**	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	
120-12-7	**Anthracene**	**57.7**	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	J
84-74-2	Di-n-butyl phthalate	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**386**	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	
129-00-0	**Pyrene**	**376**	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	
85-68-7	Butylbenzylphthalate	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	111	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**190**	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
218-01-9	**Chrysene**	**197**	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	J
117-84-0	Di-n-octyl phthalate	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
205-99-2	**Benzo[b]fluoranthene**	**211**	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	J
207-08-9	**Benzo[k]fluoranthene**	**83.7**	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	J
50-32-8	**Benzo[a]pyrene**	**178**	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	J
193-39-5	**Indeno(1,2,3-cd)pyrene**	**81.4**	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	J
53-70-3	Dibenzo(a,h)anthracene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
191-24-2	**Benzo[ghi]perylene**	**88.6**	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	J
Surrogate: 2-Fluorophenol				*79 %*	*30-130*		*09/14/16 05:36*	*09/15/16 20:06/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*80 %*	*30-130*		*09/14/16 05:36*	*09/15/16 20:06/JMM*	*EPA 8270*	

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Client ID: EP-30

Lab ID: 1601751-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

Surrogate: Nitrobenzene-d5			*79 %*	*30-130*			*09/14/16 05:36*	*09/15/16 20:06/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl			*79 %*	*30-130*			*09/14/16 05:36*	*09/15/16 20:06/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol			*80 %*	*30-130*			*09/14/16 05:36*	*09/15/16 20:06/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14			*96 %*	*30-130*			*09/14/16 05:36*	*09/15/16 20:06/JMM*	*EPA 8270*	

EPA Method SW846 8081/8082

Sample Prepared by Method:EPA 3550B

319-84-6	alpha-BHC	ND	0.886	0.886	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.886	0.886	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.886	0.886	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.886	0.886	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.886	0.886	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.886	0.886	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.886	0.886	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.886	0.886	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.79	1.79	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.79	1.79	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.79	1.79	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.79	1.79	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.79	1.79	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.79	1.79	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.79	1.79	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	2.68	8.94	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.79	1.79	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.79	1.79	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.886	0.886	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.886	0.886	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	44.7	44.7	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	22.3	44.7	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U

Accredited Analytical Resources LLC

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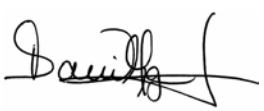

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 E. 138th Street
Project Manager: Sean Harrison

Reported:
09/16/2016 14:55

Client ID: EP-30

Lab ID: 1601751-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
					Accredited Analytical Resources LLC					
EPA Method SW846 8081/8082										
11104-28-2	Aroclor-1221	ND	22.3	44.7	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	22.3	44.7	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	22.3	44.7	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	22.3	44.7	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	22.3	44.7	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	22.3	44.7	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	22.3	44.7	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	22.3	44.7	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*72.6 %*	*30-150*		*09/14/16 05:34*	*09/14/16 16:19/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*88.7 %*	*30-150*		*09/14/16 05:34*	*09/14/16 16:19/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*86.2 %*	*30-150*		*09/14/16 05:34*	*09/14/16 16:19/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*110 %*	*30-150*		*09/14/16 05:34*	*09/14/16 16:19/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**8480**	18.5	18.5	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7440-36-0	Antimony	ND	3.69	3.69	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.52**	0.923	0.923	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7440-39-3	**Barium**	**71.8**	18.5	18.5	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.461	0.461	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	U
7440-43-9	**Cadmium**	**0.799**	0.461	0.461	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7440-70-2	**Calcium**	**34900**	577	577	mg/kg dry	25	09/13/16 14:59	09/14/16 11:27/LIT	EPA 6010	D
7440-47-3	**Chromium**	**16.5**	1.85	1.85	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7440-48-4	**Cobalt**	**7.69**	4.61	4.61	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7440-50-8	**Copper**	**27.6**	2.77	2.77	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7439-89-6	**Iron**	**16500**	23.1	23.1	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7439-92-1	**Lead**	**73.6**	0.923	0.923	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7439-95-4	**Magnesium**	**13700**	46.1	46.1	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 E. 138th Street
Project Manager: Sean Harrison

Reported:
09/16/2016 14:55

Client ID: EP-30
Lab ID: 1601751-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
				Accredited Analytical Resources LLC						
Total Metals by EPA Method SW846 6010										
7439-96-5	**Manganese**	**363**	1.85	1.85	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7440-02-0	**Nickel**	**14.2**	3.69	3.69	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7440-09-7	**Potassium**	**1720**	46.1	46.1	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7782-49-2	Selenium	ND	3.69	3.69	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.461	0.461	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	U
7440-23-5	**Sodium**	**311**	46.1	46.1	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7440-28-0	Thallium	ND	1.38	2.77	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**24.3**	4.61	4.61	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7440-66-6	**Zinc**	**68.9**	5.54	5.54	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	**Mercury**	**0.202**	0.101	0.101	mg/kg dry	1	09/15/16 08:08	09/15/16 11:47/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:[CALC]										
16065-83-1	**Trivalent Chromium**	**16.5**	1.37	1.37	mg/kg dry	1	09/13/16 15:42	09/14/16 17:12/NNM	[CALC]	
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.34	1.34	mg/kg dry	1	09/13/16 15:41	09/13/16 17:44/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**74.5**	0.100	0.100	%	1	09/14/16 09:41	09/15/16 10:45/KMC	SM 2540 G	
Sample Prepared by Method:SW 846 3060A										
1854-02-99	Chromium, Hexavalent	ND	2.68	2.68	mg/kg dry	1	09/13/16 15:42	09/14/16 17:12/NNM	EPA 7196A	

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 E. 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Sean Harrison
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ
ZIP:	08736

AAR QUOTE #	
AAR WORK ORDER #	1631751
P.O. #	10BR188

COLLECTION INFORMATION / ANALYSIS

PRES. CODE →
CONT. CODE →

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hexavalent Chromium	Trivalent Chromium	AAR SAMPLE #
EP-29	9/13/16 @ 12:10	S		4	G	X	X	X	-01
EP-30	9/13/16 @ 12:25	S		4	G	X	X	X	-02

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. (48 HRS.) 24 HRS. OTHER ~~3 Day (?)~~ M.N.
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Please provide ~~category~~ NYSDEC Category B Data Deliverable; Send invoice to Brinkerhoff

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: K. Muniz	Print Name:	Print Name:
Signature: Monica Norton	Signature: K. Muniz	Signature:	Signature:
Agent of: BES	Agent of: AAR	Agent of:	Agent of:
Date Received: 9/13/16	Time: ~~1450~~ 1250 KM 9/13/16	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Bernie O'Gara

From: "Monica Norton" <mnorton@brinkenv.com>
To: "'Bernie O'Gara'" <bernie@accreditedanalytical.com>
Sent: Tuesday, September 13, 2016 4:54 PM
Subject: RE: AAR Case 1601751

Dear Bernie,

Yes, I would like to revise the TAT to be 72 hours for these samples.

Thanks you,

Monica

Monica Norton
mnorton@brinkenv.com
BRINKERHOFF ENVIRONMENTAL SERVICES, INC.
1805 Atlantic Avenue
Manasquan, NJ 08736
Phone: 732-223-2225
Fax: 732-223-3666
Web: www.BrinkEnv.com

From: Bernie O'Gara [mailto:bernie@accreditedanalytical.com]
Sent: Tuesday, September 13, 2016 4:31 PM
To: 'Monica Norton' <mnorton@brinkenv.com>
Cc: Sean Harrison <sharrison@brinkenv.com>
Subject: AAR Case 1601751

Hi Monica,

We received 2 soil samples today for the 255 E. 138th Street Project.

Per our conversation today, please confirm that you would like to revise the TAT to 72 hours.

Thank you,

Bernie O'Gara
Accredited Analytical Resources, LLC
20 Pershing Ave. Carteret, NJ 07008
Ph. 732.969.6112 ext 105 | Fax 732.541.1383
bernie@accreditedanalytical.com

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601783

Client Sample ID:	Lab Sample ID:
EP-31	1601783-01
EP-31	1601783-01RE1

This data has been reviewed and accepted by:

Daniel Miguel 09/23/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Table of Contents

Accredited Analytical Resources, LLC.

Methodology Summary

EPA Method SW846 8081/8082:
NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:
NJ 8270C
NY 8270D

Total Mercury by SW846 7471:
NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:
NJ 8260B
NY 8260C

Wet Chemistry:
Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1601783**

Received: 9/16/16 14:10

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th street
CONTACT:	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	sharrison@brinkenv.com
EMAIL FOR INVOICE:	same

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ
ZIP:	08736

AAR QUOTE #	
AAR WORK ORDER #	1631783
P.O. #	10BR188

ANALYSIS

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	PRES. CODE → / CONT. CODE → TAL TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-31	9/16/16 10:20	S	15-15.5	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSEC catagory B Data Deliverables. Hardcopy report due four (4) weeks from today.

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Rachael Barr SIGN: R. Barr

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Rachael Barr	Print Name: K. Muniz	Print Name:	Print Name:
Signature: R. Barr	Signature:	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 9/16/16	Time: 1410	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-31	1601783-01	Soil	09/16/2016 10:20	09/16/2016 14:10

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

PEST/PCB

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/19/16 06:09	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B	File ID:	A23166.D
Prep Batch:	B6I1902	Sequence:	S6I1901	Analyzed:	09/19/16 18:24
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	1.77	1.77	U
319-85-7	beta-BHC	ND	1.77	1.77	U
319-86-8	delta-BHC	ND	1.77	1.77	U
58-89-9	gamma-BHC [Lindane]	ND	1.77	1.77	U
76-44-8	Heptachlor	ND	1.77	1.77	U
309-00-2	Aldrin	ND	1.77	1.77	U
1024-57-3	Heptachlor Epoxide	ND	1.77	1.77	U
959-98-8	Endosulfan I	ND	1.77	1.77	U
60-57-1	Dieldrin	ND	3.58	3.58	U
72-55-9	4,4'-DDE	ND	3.58	3.58	U
72-20-8	Endrin	ND	3.58	3.58	U
33213-65-9	Endosulfan II	ND	3.58	3.58	U
72-54-8	4,4'-DDD	ND	3.58	3.58	U
1031-07-8	Endosulfan sulfate	ND	3.58	3.58	U
50-29-3	4,4'-DDT	ND	3.58	3.58	U
72-43-5	Methoxychlor	ND	5.38	17.9	U
53494-70-5	Endrin ketone	ND	3.58	3.58	U
7421-93-4	Endrin aldehyde	ND	3.58	3.58	U
5103-71-9	alpha-Chlordane	ND	1.77	1.77	U
5566-34-7	gamma-Chlordane	ND	1.77	1.77	U
8001-35-2	Toxaphene	ND	89.5	89.5	U
12674-11-2	Aroclor-1016	ND	44.6	89.5	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/19/16 06:09	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B	File ID:	A23166.D
Prep Batch:	B6I1902	Sequence:	S6I1901	Analyzed:	09/19/16 18:24
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	44.6	89.5	U
11141-16-5	Aroclor-1232	ND	44.6	89.5	U
53469-21-9	Aroclor-1242	ND	44.6	89.5	U
12672-29-6	Aroclor-1248	ND	44.6	89.5	U
11097-69-1	Aroclor-1254	ND	44.6	89.5	U
11096-82-5	Aroclor-1260	ND	44.6	89.5	U
37324-23-5	Aroclor-1262	ND	44.6	89.5	U
11100-14-4	Aroclor-1268	ND	44.6	89.5	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	46.0%	30-150
Tetrachloro-m-xylene [2C]	56.3%	30-150
Decachlorobiphenyl	53.5%	30-150
Decachlorobiphenyl [2C]	73.1%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

SEMIVOLATILES

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/21/16 05:25	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B GCMS	File ID:	E11195.D
Prep Batch:	B6I2101	Sequence:	S6I2211	Analyzed:	09/22/16 20:33
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	89.5	449	U
108-95-2	Phenol	ND	89.5	449	U
111-44-4	bis(2-chloroethyl)ether	ND	89.5	449	U
95-57-8	2-Chlorophenol	ND	89.5	449	U
541-73-1	1,3-Dichlorobenzene	ND	89.5	449	U
106-46-7	1,4-Dichlorobenzene	ND	89.5	449	U
100-51-6	Benzyl alcohol	ND	89.5	449	U
95-50-1	1,2-Dichlorobenzene	ND	89.5	449	U
95-48-7	2-Methylphenol	ND	89.5	449	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	89.5	449	U
106-44-5	3 & 4-Methylphenol	254	89.5	449	J
621-64-7	N-Nitroso-di-n-propylamine	ND	89.5	449	U
67-72-1	Hexachloroethane	ND	89.5	449	U
98-95-3	Nitrobenzene	ND	89.5	449	U
78-59-1	Isophorone	ND	89.5	449	U
88-75-5	2-Nitrophenol	ND	89.5	449	U
105-67-9	2,4-Dimethylphenol	ND	89.5	449	U
65-85-0	Benzoic acid	ND	223	895	U
111-91-1	bis(2-chloroethoxy)methane	ND	89.5	449	U
120-83-2	2,4-Dichlorophenol	ND	89.5	449	U
120-82-1	1,2,4-Trichlorobenzene	ND	89.5	449	U
91-20-3	Naphthalene	ND	89.5	449	U
106-47-8	4-Chloroaniline	ND	89.5	449	U
87-68-3	Hexachlorobutadiene	ND	89.5	449	U
59-50-7	4-Chloro-3-methylphenol	ND	89.5	449	U
91-57-6	2-Methylnaphthylene	ND	89.5	449	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/21/16 05:25	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B GCMS	File ID:	E11195.D
Prep Batch:	B6I2101	Sequence:	S6I2211	Analyzed:	09/22/16 20:33
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	89.5	449	U
88-06-2	2,4,6-Trichlorophenol	ND	89.5	449	U
95-95-4	2,4,5-Trichlorophenol	ND	89.5	449	U
91-58-7	2-Chloronaphthalene	ND	89.5	449	U
88-74-4	2-Nitroaniline	ND	89.5	449	U
131-11-3	Dimethylphthalate	ND	89.5	449	U
208-96-8	Acenaphthylene	ND	89.5	449	U
99-09-2	3-Nitroaniline	ND	89.5	449	U
83-32-9	Acenaphthene	ND	89.5	449	U
51-28-5	2,4-Dinitrophenol	ND	89.5	895	U
100-02-7	4-Nitrophenol	ND	89.5	449	U
132-64-9	Dibenzofuran	ND	89.5	449	U
606-20-2	2,6-Dinitrotoluene	ND	89.5	449	U
121-14-2	2,4-Dinitrotoluene	ND	89.5	449	U
84-66-2	Diethyl phthalate	ND	89.5	449	U
7005-72-3	4-Chlorophenyl-phenylether	ND	89.5	449	U
86-73-7	Fluorene	ND	89.5	449	U
100-01-6	4-Nitroaniline	ND	89.5	449	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	89.5	449	U
86-30-6	N-Nitrosodiphenylamine	ND	89.5	449	U
101-55-3	4-Bromophenyl-phenylether	ND	89.5	449	U
118-74-1	Hexachlorobenzene	ND	89.5	449	U
87-86-5	Pentachlorophenol	ND	89.5	449	U
85-01-8	Phenanthrene	505	89.5	449	
120-12-7	Anthracene	127	89.5	449	J
84-74-2	Di-n-butyl phthalate	ND	89.5	449	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/21/16 05:25	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B GCMS	File ID:	E11195.D
Prep Batch:	B6I2101	Sequence:	S6I2211	Analyzed:	09/22/16 20:33
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	980	89.5	449	
129-00-0	Pyrene	814	89.5	449	
85-68-7	Butylbenzylphthalate	ND	89.5	449	U
91-94-1	3,3'-Dichlorobenzidine	ND	223	449	U
56-55-3	Benzo[a]anthracene	453	89.5	449	
117-81-7	bis(2-ethylhexyl)phthalate	ND	89.5	449	U
218-01-9	Chrysene	483	89.5	449	
117-84-0	Di-n-octyl phthalate	ND	89.5	449	U
205-99-2	Benzo[b]fluoranthene	537	89.5	449	
207-08-9	Benzo[k]fluoranthene	244	89.5	449	J
50-32-8	Benzo[a]pyrene	487	89.5	449	
193-39-5	Indeno(1,2,3-cd)pyrene	308	89.5	449	J
53-70-3	Dibenzo(a,h)anthracene	ND	89.5	449	U
191-24-2	Benzo[ghi]perylene	371	89.5	449	J

Surrogate	% Recovery		Recovery Limits
2-Fluorophenol	0.9%	*	30-130
Phenol-d5	11%	*	30-130
Nitrobenzene-d5	98%		30-130
2-Fluorobiphenyl	84%		30-130
2,4,6-Tribromophenol	0.8%	*	30-130
Terphenyl-d14	83%		30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01RE1
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/21/16 05:25	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B GCMS	File ID:	E11196.D
Prep Batch:	B6I2101	Sequence:	S6I2211	Analyzed:	09/22/16 21:17
Dilution:	5			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	448	2240	U
108-95-2	Phenol	ND	448	2240	U
111-44-4	bis(2-chloroethyl)ether	ND	448	2240	U
95-57-8	2-Chlorophenol	ND	448	2240	U
541-73-1	1,3-Dichlorobenzene	ND	448	2240	U
106-46-7	1,4-Dichlorobenzene	ND	448	2240	U
100-51-6	Benzyl alcohol	ND	448	2240	U
95-50-1	1,2-Dichlorobenzene	ND	448	2240	U
95-48-7	2-Methylphenol	ND	448	2240	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	448	2240	U
106-44-5	3 & 4-Methylphenol	ND	448	2240	U
621-64-7	N-Nitroso-di-n-propylamine	ND	448	2240	U
67-72-1	Hexachloroethane	ND	448	2240	U
98-95-3	Nitrobenzene	ND	448	2240	U
78-59-1	Isophorone	ND	448	2240	U
88-75-5	2-Nitrophenol	ND	448	2240	U
105-67-9	2,4-Dimethylphenol	ND	448	2240	U
65-85-0	Benzoic acid	ND	1120	4480	U
111-91-1	bis(2-chloroethoxy)methane	ND	448	2240	U
120-83-2	2,4-Dichlorophenol	ND	448	2240	U
120-82-1	1,2,4-Trichlorobenzene	ND	448	2240	U
91-20-3	Naphthalene	ND	448	2240	U
106-47-8	4-Chloroaniline	ND	448	2240	U
87-68-3	Hexachlorobutadiene	ND	448	2240	U
59-50-7	4-Chloro-3-methylphenol	ND	448	2240	U
91-57-6	2-Methylnaphthylene	ND	448	2240	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01RE1
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/21/16 05:25	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B GCMS	File ID:	E11196.D
Prep Batch:	B6I2101	Sequence:	S6I2211	Analyzed:	09/22/16 21:17
Dilution:	5			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	448	2240	U
88-06-2	2,4,6-Trichlorophenol	ND	448	2240	U
95-95-4	2,4,5-Trichlorophenol	ND	448	2240	U
91-58-7	2-Chloronaphthalene	ND	448	2240	U
88-74-4	2-Nitroaniline	ND	448	2240	U
131-11-3	Dimethylphthalate	ND	448	2240	U
208-96-8	Acenaphthylene	ND	448	2240	U
99-09-2	3-Nitroaniline	ND	448	2240	U
83-32-9	Acenaphthene	ND	448	2240	U
51-28-5	2,4-Dinitrophenol	ND	448	4480	U
100-02-7	4-Nitrophenol	ND	448	2240	U
132-64-9	Dibenzofuran	ND	448	2240	U
606-20-2	2,6-Dinitrotoluene	ND	448	2240	U
121-14-2	2,4-Dinitrotoluene	ND	448	2240	U
84-66-2	Diethyl phthalate	ND	448	2240	U
7005-72-3	4-Chlorophenyl-phenylether	ND	448	2240	U
86-73-7	Fluorene	ND	448	2240	U
100-01-6	4-Nitroaniline	ND	448	2240	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	448	2240	U
86-30-6	N-Nitrosodiphenylamine	ND	448	2240	U
101-55-3	4-Bromophenyl-phenylether	ND	448	2240	U
118-74-1	Hexachlorobenzene	ND	448	2240	U
87-86-5	Pentachlorophenol	ND	448	2240	U
85-01-8	Phenanthrene	545	448	2240	D, J
120-12-7	Anthracene	ND	448	2240	U
84-74-2	Di-n-butyl phthalate	ND	448	2240	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01RE1
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/21/16 05:25	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B GCMS	File ID:	E11196.D
Prep Batch:	B6I2101	Sequence:	S6I2211	Analyzed:	09/22/16 21:17
Dilution:	5			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	1070	448	2240	D, J
129-00-0	Pyrene	892	448	2240	D, J
85-68-7	Butylbenzylphthalate	ND	448	2240	U
91-94-1	3,3'-Dichlorobenzidine	ND	1120	2240	U
56-55-3	Benzo[a]anthracene	496	448	2240	J, D
117-81-7	bis(2-ethylhexyl)phthalate	ND	448	2240	U
218-01-9	Chrysene	552	448	2240	D, J
117-84-0	Di-n-octyl phthalate	ND	448	2240	U
205-99-2	Benzo[b]fluoranthene	603	448	2240	J, D
207-08-9	Benzo[k]fluoranthene	ND	448	2240	U
50-32-8	Benzo[a]pyrene	555	448	2240	J, D
193-39-5	Indeno(1,2,3-cd)pyrene	ND	448	2240	U
53-70-3	Dibenzo(a,h)anthracene	ND	448	2240	U
191-24-2	Benzo[ghi]perylene	ND	448	2240	U

Surrogate	% Recovery		Recovery Limits
2-Fluorophenol	0.9%	*	30-130
Phenol-d5	11%	*	30-130
Nitrobenzene-d5	102%		30-130
2-Fluorobiphenyl	98%		30-130
2,4,6-Tribromophenol	1%	*	30-130
Terphenyl-d14	100%		30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

VOLATILES SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/20/16 20:22	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 5035A	File ID:	A9514.D
Prep Batch:	B6I2013	Sequence:	S6I2006	Analyzed:	09/20/16 20:22
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	25.1	41.9	U
107-13-1	Acrylonitrile	ND	8.37	41.9	U
67-64-1	Acetone	2290	4.19	8.37	B, E
75-71-8	Dichlorodifluoromethane	ND	4.19	8.37	U
74-87-3	Chloromethane	ND	4.19	8.37	U
75-01-4	Vinyl chloride	ND	4.19	8.37	U
74-83-9	Bromomethane	ND	4.19	8.37	U
75-00-3	Chloroethane	ND	4.19	8.37	U
75-69-4	Trichlorofluoromethane	ND	4.19	8.37	U
75-35-4	1,1-Dichloroethene	ND	4.19	8.37	U
75-15-0	Carbon disulfide	35.8	4.19	8.37	
75-09-2	Methylene Chloride	ND	4.19	8.37	U
156-60-5	trans-1,2-Dichloroethene	ND	4.19	8.37	U
75-34-3	1,1-Dichloroethane	ND	4.19	8.37	U
108-05-4	Vinyl acetate	ND	4.19	8.37	U
590-20-7	2,2-Dichloropropane	ND	4.19	8.37	U
78-93-3	2-Butanone	453	4.19	8.37	
156-59-4	cis-1,2-Dichloroethene	ND	4.19	8.37	U
67-66-3	Chloroform	ND	4.19	8.37	U
74-97-5	Bromochloromethane	ND	4.19	8.37	U
71-55-6	1,1,1-Trichloroethane	ND	4.19	8.37	U
563-58-6	1,1-Dichloropropene	ND	4.19	8.37	U
56-23-5	Carbon Tetrachloride	ND	4.19	8.37	U
107-06-2	1,2-Dichloroethane	ND	4.19	8.37	U
71-43-2	Benzene	ND	4.19	8.37	U
79-01-6	Trichloroethene	ND	4.19	8.37	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/20/16 20:22	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 5035A	File ID:	A9514.D
Prep Batch:	B6I2013	Sequence:	S6I2006	Analyzed:	09/20/16 20:22
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	4.19	8.37	U
75-27-4	Bromodichloromethane	ND	4.19	8.37	U
74-95-3	Dibromomethane	ND	4.19	8.37	U
110-75-8	2-Chloroethyl vinyl ether	ND	4.19	8.37	U
10061-01-5	cis-1,3-Dichloropropene	ND	4.19	8.37	U
108-88-3	Toluene	5.19	4.19	8.37	J
10061-02-6	trans-1,3-Dichloropropene	ND	4.19	8.37	U
79-00-5	1,1,2-Trichloroethane	ND	4.19	8.37	U
108-10-1	4-Methyl-2-pentanone	ND	4.19	8.37	U
106-93-4	1,2-Dibromoethane	ND	4.19	8.37	U
591-78-6	2-Hexanone	ND	4.19	8.37	U
142-28-9	1,3-Dichloropropane	ND	4.19	8.37	U
127-18-4	Tetrachloroethene	ND	4.19	8.37	U
124-48-1	Dibromochloromethane	ND	4.19	8.37	U
100-41-4	Ethylbenzene	5.74	4.19	8.37	J
108-90-7	Chlorobenzene	ND	4.19	8.37	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.19	8.37	U
108-38-3/106-42	m,p-Xylenes	14.5	8.37	16.7	J
95-47-6	o-Xylene	ND	8.37	16.7	U
100-42-5	Styrene	ND	4.19	16.7	U
75-25-2	Bromoform	ND	4.19	8.37	U
98-82-8	Isopropylbenzene	5.07	4.19	8.37	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.19	8.37	U
96-18-4	1,2,3-Trichloropropane	ND	4.19	8.37	U
103-65-1	n-Propyl Benzene	7.75	4.19	8.37	J
108-86-1	Bromobenzene	ND	4.19	8.37	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/20/16 20:22	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 5035A	File ID:	A9514.D
Prep Batch:	B6I2013	Sequence:	S6I2006	Analyzed:	09/20/16 20:22
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	8.46	4.19	8.37	
95-49-8	2-Chlorotoluene	ND	4.19	8.37	U
106-43-4	4-Chlorotoluene	ND	4.19	8.37	U
98-06-6	tert-Butylbenzene	ND	4.19	8.37	U
95-63-6	1,2,4-Trimethylbenzene	36.0	4.19	8.37	
135-98-8	sec-Butylbenzene	7.66	4.19	8.37	J
99-87-6	p-Isopropyltoluene	ND	4.19	8.37	U
541-73-1	1,3-Dichlorobenzene	ND	4.19	8.37	U
106-46-7	1,4-Dichlorobenzene	ND	4.19	8.37	U
104-51-8	n-Butyl Benzene	8.96	4.19	8.37	
95-50-1	1,2-Dichlorobenzene	ND	4.19	8.37	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.19	8.37	U
120-82-1	1,2,4-Trichlorobenzene	ND	4.19	8.37	U
87-68-3	Hexachlorobutadiene	ND	4.19	8.37	U
87-61-6	1,2,3-Trichlorobenzene	ND	4.19	8.37	U

Surrogate	% Recovery		Recovery Limits
1,2-Dichloroethane-d4	98%		70-130
Toluene-d8	94%		70-130
Bromofluorobenzene	68%	*	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01RE1
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/23/16 15:06	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 5035A	File ID:	A9583.D
Prep Batch:	B6I2307	Sequence:	S6I2304	Analyzed:	09/23/16 15:06
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	502	837	U
107-13-1	Acrylonitrile	ND	167	837	U
67-64-1	Acetone	1950	83.7	167	D
75-71-8	Dichlorodifluoromethane	ND	83.7	167	U
74-87-3	Chloromethane	ND	83.7	167	U
75-01-4	Vinyl chloride	ND	83.7	167	U
74-83-9	Bromomethane	ND	83.7	167	U
75-00-3	Chloroethane	ND	83.7	167	U
75-69-4	Trichlorofluoromethane	ND	83.7	167	U
75-35-4	1,1-Dichloroethene	ND	83.7	167	U
75-15-0	Carbon disulfide	ND	83.7	167	U
75-09-2	Methylene Chloride	ND	83.7	167	U
156-60-5	trans-1,2-Dichloroethene	ND	83.7	167	U
75-34-3	1,1-Dichloroethane	ND	83.7	167	U
108-05-4	Vinyl acetate	ND	83.7	167	U
590-20-7	2,2-Dichloropropane	ND	83.7	167	U
78-93-3	2-Butanone	529	83.7	167	D
156-59-4	cis-1,2-Dichloroethene	ND	83.7	167	U
67-66-3	Chloroform	ND	83.7	167	U
74-97-5	Bromochloromethane	ND	83.7	167	U
71-55-6	1,1,1-Trichloroethane	ND	83.7	167	U
563-58-6	1,1-Dichloropropene	ND	83.7	167	U
56-23-5	Carbon Tetrachloride	ND	83.7	167	U
107-06-2	1,2-Dichloroethane	ND	83.7	167	U
71-43-2	Benzene	ND	83.7	167	U
79-01-6	Trichloroethene	ND	83.7	167	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01RE1
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/23/16 15:06	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 5035A	File ID:	A9583.D
Prep Batch:	B6I2307	Sequence:	S6I2304	Analyzed:	09/23/16 15:06
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	83.7	167	U
75-27-4	Bromodichloromethane	ND	83.7	167	U
74-95-3	Dibromomethane	ND	83.7	167	U
110-75-8	2-Chloroethyl vinyl ether	ND	83.7	167	U
10061-01-5	cis-1,3-Dichloropropene	ND	83.7	167	U
108-88-3	Toluene	ND	83.7	167	U
10061-02-6	trans-1,3-Dichloropropene	ND	83.7	167	U
79-00-5	1,1,2-Trichloroethane	ND	83.7	167	U
108-10-1	4-Methyl-2-pentanone	ND	83.7	167	U
106-93-4	1,2-Dibromoethane	ND	83.7	167	U
591-78-6	2-Hexanone	ND	83.7	167	U
142-28-9	1,3-Dichloropropane	ND	83.7	167	U
127-18-4	Tetrachloroethene	ND	83.7	167	U
124-48-1	Dibromochloromethane	ND	83.7	167	U
100-41-4	Ethylbenzene	ND	83.7	167	U
108-90-7	Chlorobenzene	ND	83.7	167	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	83.7	167	U
108-38-3/106-42	m,p-Xylenes	ND	167	335	U
95-47-6	o-Xylene	ND	167	335	U
100-42-5	Styrene	ND	83.7	335	U
75-25-2	Bromoform	ND	83.7	167	U
98-82-8	Isopropylbenzene	ND	83.7	167	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	83.7	167	U
96-18-4	1,2,3-Trichloropropane	ND	83.7	167	U
103-65-1	n-Propyl Benzene	ND	83.7	167	U
108-86-1	Bromobenzene	ND	83.7	167	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01RE1
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/23/16 15:06	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 5035A	File ID:	A9583.D
Prep Batch:	B6I2307	Sequence:	S6I2304	Analyzed:	09/23/16 15:06
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	83.7	167	U
95-49-8	2-Chlorotoluene	ND	83.7	167	U
106-43-4	4-Chlorotoluene	ND	83.7	167	U
98-06-6	tert-Butylbenzene	ND	83.7	167	U
95-63-6	1,2,4-Trimethylbenzene	ND	83.7	167	U
135-98-8	sec-Butylbenzene	ND	83.7	167	U
99-87-6	p-Isopropyltoluene	ND	83.7	167	U
541-73-1	1,3-Dichlorobenzene	ND	83.7	167	U
106-46-7	1,4-Dichlorobenzene	ND	83.7	167	U
104-51-8	n-Butyl Benzene	ND	83.7	167	U
95-50-1	1,2-Dichlorobenzene	ND	83.7	167	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	83.7	167	U
120-82-1	1,2,4-Trichlorobenzene	ND	83.7	167	U
87-68-3	Hexachlorobutadiene	ND	83.7	167	U
87-61-6	1,2,3-Trichlorobenzene	ND	83.7	167	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	95%	70-130
Toluene-d8	100%	70-130
Bromofluorobenzene	102%	70-130

* Values outside of QC limits
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B - Indicates compound found in associated blank
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D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Matrix:	Soil
Percent Solids:	37.20	File ID:	092016B-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	14900	28.8	28.8	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7439-97-6	Mercury	ND	0.202	0.202	1	U	09/19/16 08:21	EPA 7471A	09/19/16 13:21 PRT	EPA 7471
7440-36-0	Antimony	ND	5.75	5.75	1	U	09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-38-2	Arsenic	4.85	1.44	1.44	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-39-3	Barium	104	28.8	28.8	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.719	0.719	1	U	09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-43-9	Cadmium	0.902	0.719	0.719	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-70-2	Calcium	132000	1800	1800	50	D	09/19/16 08:50	EPA 3050B	09/20/16 13:05 LIT	EPA 6010
7440-47-3	Chromium	61.1	2.88	2.88	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-48-4	Cobalt	8.69	7.19	7.19	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-50-8	Copper	35.2	4.31	4.31	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7439-89-6	Iron	18200	35.9	35.9	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7439-92-1	Lead	52.8	1.44	1.44	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7439-95-4	Magnesium	7880	71.9	71.9	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7439-96-5	Manganese	458	2.88	2.88	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-02-0	Nickel	21.1	5.75	5.75	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-09-7	Potassium	2020	71.9	71.9	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7782-49-2	Selenium	ND	5.75	5.75	1	U	09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-22-4	Silver	ND	0.719	0.719	1	U	09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-23-5	Sodium	753	71.9	71.9	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-28-0	Thallium	ND	2.16	4.31	1	U	09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-62-2	Vanadium	46.6	7.19	7.19	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-66-6	Zinc	123	8.63	8.63	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010

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Accredited Analytical Resources, LLC.

WET CHEMISTRY

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Matrix:	Soil
Percent Solids:	37.20	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	61.1	1.07	1.07	1		09/20/16 12:37	[CALC]	09/22/16 08:15 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	5.38	5.38	1	U	09/20/16 12:37	SW 846 3060A	09/22/16 08:15 NNM	EPA 7196A
NA	Cyanide (total)	ND	2.69	2.69	1	U	09/22/16 09:32	EPA 9010C	09/22/16 16:12 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	37.2	0.100	0.100	1		09/19/16 11:59	Percent Solids	09/19/16 16:56 KMC	SM 2540 G

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Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1602114

Client Sample ID:	Lab Sample ID:
EP-32	1602114-01
EP-33	1602114-02
EP-33	1602114-02RE1
DUP-1	1602114-03
DUP-1	1602114-03RE1

This data has been reviewed and accepted by:

Daniel Miguel 11/14/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Accredited Analytical Resources, LLC.

Methodology Summary

EPA Method SW846 8081/8082:
NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:
NJ 8270C
NY 8270D

Total Mercury by SW846 7471:
NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:
NJ 8260B
NY 8260C

Wet Chemistry:
Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1602114**

Received: 11/7/16 14:15

Cooler

Temperature °C	6.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3664
INITIAL RESULTS TO:	Sean Harrison
EMAIL FOR INVOICE:	sharrison@brinkerhw.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1602114
P.O. #	10BR188

COLLECTION INFORMATION / ANALYSIS

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex chrom	Tri chrom	AAR SAMPLE #
EP-32	11/7/16 1230	S	5'-6' 15.5'	4	G	X	X	X	-01
EP-33	11/7/16 1215	S	4.5'-5' 10'	4	G	X	X	X	-02
DUP-1	11/7/16 1220	S		4	G	X	X	X	-03

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Catagory B Data Deliverables. Hard copy Report due (4) four weeks from today.

COOLER TEMP: 6°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Rachael Barr SIGN: R B

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Rachael Barr	Print Name: K. Muniz	Print Name:	Print Name:
Signature: R B	Signature: K Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
	Date Received: 11/7/16 Time: 1416	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-32	1602114-01	Soil	11/07/2016 12:30	11/07/2016 14:15
EP-33	1602114-02	Soil	11/07/2016 12:15	11/07/2016 14:15
DUP-1	1602114-03	Soil	11/07/2016 12:20	11/07/2016 14:15

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
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RL - Reporting limit

Accredited Analytical Resources, LLC.

PEST/PCB

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/09/16 05:33	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 3550B	File ID:	G18486.D
Prep Batch:	B6K0902	Sequence:	S6K1103	Analyzed:	11/11/16 13:16
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	2.44	2.44	U
319-85-7	beta-BHC	ND	2.44	2.44	U
319-86-8	delta-BHC	ND	2.44	2.44	U
58-89-9	gamma-BHC [Lindane]	ND	2.44	2.44	U
76-44-8	Heptachlor	ND	2.44	2.44	U
309-00-2	Aldrin	ND	2.44	2.44	U
1024-57-3	Heptachlor Epoxide	ND	2.44	2.44	U
959-98-8	Endosulfan I	ND	2.44	2.44	U
60-57-1	Dieldrin	ND	4.93	4.93	U
72-55-9	4,4'-DDE	ND	4.93	4.93	U
72-20-8	Endrin	ND	4.93	4.93	U
33213-65-9	Endosulfan II	ND	4.93	4.93	U
72-54-8	4,4'-DDD	ND	4.93	4.93	U
1031-07-8	Endosulfan sulfate	ND	4.93	4.93	U
50-29-3	4,4'-DDT	ND	4.93	4.93	U
72-43-5	Methoxychlor	ND	7.41	24.7	U
53494-70-5	Endrin ketone	ND	4.93	4.93	U
7421-93-4	Endrin aldehyde	ND	4.93	4.93	U
5103-71-9	alpha-Chlordane	ND	2.44	2.44	U
5566-34-7	gamma-Chlordane	ND	2.44	2.44	U
8001-35-2	Toxaphene	ND	123	123	U
12674-11-2	Aroclor-1016	ND	61.5	123	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/09/16 05:33	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 3550B	File ID:	G18486.D
Prep Batch:	B6K0902	Sequence:	S6K1103	Analyzed:	11/11/16 13:16
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	61.5	123	U
11141-16-5	Aroclor-1232	ND	61.5	123	U
53469-21-9	Aroclor-1242	ND	61.5	123	U
12672-29-6	Aroclor-1248	ND	61.5	123	U
11097-69-1	Aroclor-1254	ND	61.5	123	U
11096-82-5	Aroclor-1260	ND	61.5	123	U
37324-23-5	Aroclor-1262	ND	61.5	123	U
11100-14-4	Aroclor-1268	ND	61.5	123	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	42.5%	30-150
Tetrachloro-m-xylene [2C]	49.2%	30-150
Decachlorobiphenyl	51.6%	30-150
Decachlorobiphenyl [2C]	66.0%	30-150

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RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:33	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B	File ID:	G18487.D
Prep Batch:	B6K0902	Sequence:	S6K1103	Analyzed:	11/11/16 13:46
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.763	0.763	U
319-85-7	beta-BHC	ND	0.763	0.763	U
319-86-8	delta-BHC	ND	0.763	0.763	U
58-89-9	gamma-BHC [Lindane]	ND	0.763	0.763	U
76-44-8	Heptachlor	ND	0.763	0.763	U
309-00-2	Aldrin	ND	0.763	0.763	U
1024-57-3	Heptachlor Epoxide	ND	0.763	0.763	U
959-98-8	Endosulfan I	ND	0.763	0.763	U
60-57-1	Dieldrin	ND	1.54	1.54	U
72-55-9	4,4'-DDE	ND	1.54	1.54	U
72-20-8	Endrin	ND	1.54	1.54	U
33213-65-9	Endosulfan II	ND	1.54	1.54	U
72-54-8	4,4'-DDD	ND	1.54	1.54	U
1031-07-8	Endosulfan sulfate	ND	1.54	1.54	U
50-29-3	4,4'-DDT	ND	1.54	1.54	U
72-43-5	Methoxychlor	ND	2.31	7.70	U
53494-70-5	Endrin ketone	ND	1.54	1.54	U
7421-93-4	Endrin aldehyde	ND	1.54	1.54	U
5103-71-9	alpha-Chlordane	ND	0.763	0.763	U
5566-34-7	gamma-Chlordane	ND	0.763	0.763	U
8001-35-2	Toxaphene	ND	38.5	38.5	U
12674-11-2	Aroclor-1016	ND	19.2	38.5	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:33	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B	File ID:	G18487.D
Prep Batch:	B6K0902	Sequence:	S6K1103	Analyzed:	11/11/16 13:46
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.2	38.5	U
11141-16-5	Aroclor-1232	ND	19.2	38.5	U
53469-21-9	Aroclor-1242	ND	19.2	38.5	U
12672-29-6	Aroclor-1248	ND	19.2	38.5	U
11097-69-1	Aroclor-1254	ND	19.2	38.5	U
11096-82-5	Aroclor-1260	ND	19.2	38.5	U
37324-23-5	Aroclor-1262	ND	19.2	38.5	U
11100-14-4	Aroclor-1268	ND	19.2	38.5	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	77.2%	30-150
Tetrachloro-m-xylene [2C]	98.8%	30-150
Decachlorobiphenyl	98.7%	30-150
Decachlorobiphenyl [2C]	116%	30-150

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D - Indicates result is based on a dilution
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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/09/16 05:33	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 3550B	File ID:	G18488.D
Prep Batch:	B6K0902	Sequence:	S6K1103	Analyzed:	11/11/16 14:15
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.755	0.755	U
319-85-7	beta-BHC	ND	0.755	0.755	U
319-86-8	delta-BHC	ND	0.755	0.755	U
58-89-9	gamma-BHC [Lindane]	ND	0.755	0.755	U
76-44-8	Heptachlor	ND	0.755	0.755	U
309-00-2	Aldrin	ND	0.755	0.755	U
1024-57-3	Heptachlor Epoxide	ND	0.755	0.755	U
959-98-8	Endosulfan I	ND	0.755	0.755	U
60-57-1	Dieldrin	ND	1.52	1.52	U
72-55-9	4,4'-DDE	ND	1.52	1.52	U
72-20-8	Endrin	ND	1.52	1.52	U
33213-65-9	Endosulfan II	ND	1.52	1.52	U
72-54-8	4,4'-DDD	ND	1.52	1.52	U
1031-07-8	Endosulfan sulfate	ND	1.52	1.52	U
50-29-3	4,4'-DDT	ND	1.52	1.52	U
72-43-5	Methoxychlor	ND	2.29	7.62	U
53494-70-5	Endrin ketone	ND	1.52	1.52	U
7421-93-4	Endrin aldehyde	ND	1.52	1.52	U
5103-71-9	alpha-Chlordane	ND	0.755	0.755	U
5566-34-7	gamma-Chlordane	ND	0.755	0.755	U
8001-35-2	Toxaphene	ND	38.1	38.1	U
12674-11-2	Aroclor-1016	ND	19.0	38.1	U

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ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/09/16 05:33	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 3550B	File ID:	G18488.D
Prep Batch:	B6K0902	Sequence:	S6K1103	Analyzed:	11/11/16 14:15
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.0	38.1	U
11141-16-5	Aroclor-1232	ND	19.0	38.1	U
53469-21-9	Aroclor-1242	ND	19.0	38.1	U
12672-29-6	Aroclor-1248	ND	19.0	38.1	U
11097-69-1	Aroclor-1254	ND	19.0	38.1	U
11096-82-5	Aroclor-1260	ND	19.0	38.1	U
37324-23-5	Aroclor-1262	ND	19.0	38.1	U
11100-14-4	Aroclor-1268	ND	19.0	38.1	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	87.0%	30-150
Tetrachloro-m-xylene [2C]	105%	30-150
Decachlorobiphenyl	103%	30-150
Decachlorobiphenyl [2C]	115%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 3550B GCMS	File ID:	E11561.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 18:11
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	123	619	U
108-95-2	Phenol	ND	123	619	U
111-44-4	bis(2-chloroethyl)ether	ND	123	619	U
95-57-8	2-Chlorophenol	ND	123	619	U
541-73-1	1,3-Dichlorobenzene	ND	123	619	U
106-46-7	1,4-Dichlorobenzene	ND	123	619	U
100-51-6	Benzyl alcohol	ND	123	619	U
95-50-1	1,2-Dichlorobenzene	ND	123	619	U
95-48-7	2-Methylphenol	ND	123	619	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	123	619	U
106-44-5	3 & 4-Methylphenol	ND	123	619	U
621-64-7	N-Nitroso-di-n-propylamine	ND	123	619	U
67-72-1	Hexachloroethane	ND	123	619	U
98-95-3	Nitrobenzene	ND	123	619	U
78-59-1	Isophorone	ND	123	619	U
88-75-5	2-Nitrophenol	ND	123	619	U
105-67-9	2,4-Dimethylphenol	ND	123	619	U
65-85-0	Benzoic acid	ND	307	1230	U
111-91-1	bis(2-chloroethoxy)methane	ND	123	619	U
120-83-2	2,4-Dichlorophenol	ND	123	619	U
120-82-1	1,2,4-Trichlorobenzene	ND	123	619	U
91-20-3	Naphthalene	ND	123	619	U
106-47-8	4-Chloroaniline	ND	123	619	U
87-68-3	Hexachlorobutadiene	ND	123	619	U
59-50-7	4-Chloro-3-methylphenol	ND	123	619	U
91-57-6	2-Methylnaphthylene	ND	123	619	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 3550B GCMS	File ID:	E11561.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 18:11
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	123	619	U
88-06-2	2,4,6-Trichlorophenol	ND	123	619	U
95-95-4	2,4,5-Trichlorophenol	ND	123	619	U
91-58-7	2-Chloronaphthalene	ND	123	619	U
88-74-4	2-Nitroaniline	ND	123	619	U
131-11-3	Dimethylphthalate	ND	123	619	U
208-96-8	Acenaphthylene	ND	123	619	U
99-09-2	3-Nitroaniline	ND	123	619	U
83-32-9	Acenaphthene	ND	123	619	U
51-28-5	2,4-Dinitrophenol	ND	123	1230	U
100-02-7	4-Nitrophenol	ND	123	619	U
132-64-9	Dibenzofuran	ND	123	619	U
606-20-2	2,6-Dinitrotoluene	ND	123	619	U
121-14-2	2,4-Dinitrotoluene	ND	123	619	U
84-66-2	Diethyl phthalate	ND	123	619	U
7005-72-3	4-Chlorophenyl-phenylether	ND	123	619	U
86-73-7	Fluorene	ND	123	619	U
100-01-6	4-Nitroaniline	ND	123	619	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	123	619	U
86-30-6	N-Nitrosodiphenylamine	ND	123	619	U
101-55-3	4-Bromophenyl-phenylether	ND	123	619	U
118-74-1	Hexachlorobenzene	ND	123	619	U
87-86-5	Pentachlorophenol	ND	123	619	U
85-01-8	Phenanthrene	815	123	619	
120-12-7	Anthracene	141	123	619	J
84-74-2	Di-n-butyl phthalate	ND	123	619	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 3550B GCMS	File ID:	E11561.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 18:11
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	959	123	619	
129-00-0	Pyrene	1090	123	619	
85-68-7	Butylbenzylphthalate	ND	123	619	U
91-94-1	3,3'-Dichlorobenzidine	ND	307	619	U
56-55-3	Benzo[a]anthracene	431	123	619	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	123	619	U
218-01-9	Chrysene	482	123	619	J
117-84-0	Di-n-octyl phthalate	ND	123	619	U
205-99-2	Benzo[b]fluoranthene	520	123	619	J
207-08-9	Benzo[k]fluoranthene	174	123	619	J
50-32-8	Benzo[a]pyrene	420	123	619	J
193-39-5	Indeno(1,2,3-cd)pyrene	261	123	619	J
53-70-3	Dibenzo(a,h)anthracene	ND	123	619	U
191-24-2	Benzo[ghi]perylene	294	123	619	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	53%	30-130
Phenol-d5	59%	30-130
Nitrobenzene-d5	72%	30-130
2-Fluorobiphenyl	83%	30-130
2,4,6-Tribromophenol	80%	30-130
Terphenyl-d14	99%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11556.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 14:35
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	38.5	193	U
108-95-2	Phenol	ND	38.5	193	U
111-44-4	bis(2-chloroethyl)ether	ND	38.5	193	U
95-57-8	2-Chlorophenol	ND	38.5	193	U
541-73-1	1,3-Dichlorobenzene	ND	38.5	193	U
106-46-7	1,4-Dichlorobenzene	ND	38.5	193	U
100-51-6	Benzyl alcohol	ND	38.5	193	U
95-50-1	1,2-Dichlorobenzene	ND	38.5	193	U
95-48-7	2-Methylphenol	ND	38.5	193	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	38.5	193	U
106-44-5	3 & 4-Methylphenol	ND	38.5	193	U
621-64-7	N-Nitroso-di-n-propylamine	ND	38.5	193	U
67-72-1	Hexachloroethane	ND	38.5	193	U
98-95-3	Nitrobenzene	ND	38.5	193	U
78-59-1	Isophorone	ND	38.5	193	U
88-75-5	2-Nitrophenol	ND	38.5	193	U
105-67-9	2,4-Dimethylphenol	ND	38.5	193	U
65-85-0	Benzoic acid	ND	96.0	385	U
111-91-1	bis(2-chloroethoxy)methane	ND	38.5	193	U
120-83-2	2,4-Dichlorophenol	ND	38.5	193	U
120-82-1	1,2,4-Trichlorobenzene	ND	38.5	193	U
91-20-3	Naphthalene	10300	38.5	193	E
106-47-8	4-Chloroaniline	ND	38.5	193	U
87-68-3	Hexachlorobutadiene	ND	38.5	193	U
59-50-7	4-Chloro-3-methylphenol	ND	38.5	193	U
91-57-6	2-Methylnaphthylene	10200	38.5	193	E

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ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11556.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 14:35
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	38.5	193	U
88-06-2	2,4,6-Trichlorophenol	ND	38.5	193	U
95-95-4	2,4,5-Trichlorophenol	ND	38.5	193	U
91-58-7	2-Chloronaphthalene	ND	38.5	193	U
88-74-4	2-Nitroaniline	ND	38.5	193	U
131-11-3	Dimethylphthalate	ND	38.5	193	U
208-96-8	Acenaphthylene	ND	38.5	193	U
99-09-2	3-Nitroaniline	ND	38.5	193	U
83-32-9	Acenaphthene	42.7	38.5	193	J
51-28-5	2,4-Dinitrophenol	ND	38.5	385	U
100-02-7	4-Nitrophenol	ND	38.5	193	U
132-64-9	Dibenzofuran	ND	38.5	193	U
606-20-2	2,6-Dinitrotoluene	ND	38.5	193	U
121-14-2	2,4-Dinitrotoluene	ND	38.5	193	U
84-66-2	Diethyl phthalate	ND	38.5	193	U
7005-72-3	4-Chlorophenyl-phenylether	ND	38.5	193	U
86-73-7	Fluorene	113	38.5	193	J
100-01-6	4-Nitroaniline	ND	38.5	193	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	38.5	193	U
86-30-6	N-Nitrosodiphenylamine	ND	38.5	193	U
101-55-3	4-Bromophenyl-phenylether	ND	38.5	193	U
118-74-1	Hexachlorobenzene	ND	38.5	193	U
87-86-5	Pentachlorophenol	ND	38.5	193	U
85-01-8	Phenanthrene	215	38.5	193	
120-12-7	Anthracene	53.5	38.5	193	J
84-74-2	Di-n-butyl phthalate	ND	38.5	193	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11556.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 14:35
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	114	38.5	193	J
129-00-0	Pyrene	116	38.5	193	J
85-68-7	Butylbenzylphthalate	ND	38.5	193	U
91-94-1	3,3'-Dichlorobenzidine	ND	96.0	193	U
56-55-3	Benzo[a]anthracene	50.6	38.5	193	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	38.5	193	U
218-01-9	Chrysene	48.4	38.5	193	J
117-84-0	Di-n-octyl phthalate	ND	38.5	193	U
205-99-2	Benzo[b]fluoranthene	ND	38.5	193	U
207-08-9	Benzo[k]fluoranthene	ND	38.5	193	U
50-32-8	Benzo[a]pyrene	ND	38.5	193	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38.5	193	U
53-70-3	Dibenzo(a,h)anthracene	ND	38.5	193	U
191-24-2	Benzo[ghi]perylene	ND	38.5	193	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	58%	30-130
Phenol-d5	65%	30-130
Nitrobenzene-d5	66%	30-130
2-Fluorobiphenyl	79%	30-130
2,4,6-Tribromophenol	91%	30-130
Terphenyl-d14	91%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02RE1
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11558.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 16:01
Dilution:	10			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	385	1930	U
108-95-2	Phenol	ND	385	1930	U
111-44-4	bis(2-chloroethyl)ether	ND	385	1930	U
95-57-8	2-Chlorophenol	ND	385	1930	U
541-73-1	1,3-Dichlorobenzene	ND	385	1930	U
106-46-7	1,4-Dichlorobenzene	ND	385	1930	U
100-51-6	Benzyl alcohol	ND	385	1930	U
95-50-1	1,2-Dichlorobenzene	ND	385	1930	U
95-48-7	2-Methylphenol	ND	385	1930	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	385	1930	U
106-44-5	3 & 4-Methylphenol	ND	385	1930	U
621-64-7	N-Nitroso-di-n-propylamine	ND	385	1930	U
67-72-1	Hexachloroethane	ND	385	1930	U
98-95-3	Nitrobenzene	ND	385	1930	U
78-59-1	Isophorone	ND	385	1930	U
88-75-5	2-Nitrophenol	ND	385	1930	U
105-67-9	2,4-Dimethylphenol	ND	385	1930	U
65-85-0	Benzoic acid	ND	960	3850	U
111-91-1	bis(2-chloroethoxy)methane	ND	385	1930	U
120-83-2	2,4-Dichlorophenol	ND	385	1930	U
120-82-1	1,2,4-Trichlorobenzene	ND	385	1930	U
91-20-3	Naphthalene	14200	385	1930	D
106-47-8	4-Chloroaniline	ND	385	1930	U
87-68-3	Hexachlorobutadiene	ND	385	1930	U
59-50-7	4-Chloro-3-methylphenol	ND	385	1930	U
91-57-6	2-Methylnaphthylene	11300	385	1930	D

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ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02RE1
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11558.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 16:01
Dilution:	10			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	385	1930	U
88-06-2	2,4,6-Trichlorophenol	ND	385	1930	U
95-95-4	2,4,5-Trichlorophenol	ND	385	1930	U
91-58-7	2-Chloronaphthalene	ND	385	1930	U
88-74-4	2-Nitroaniline	ND	385	1930	U
131-11-3	Dimethylphthalate	ND	385	1930	U
208-96-8	Acenaphthylene	ND	385	1930	U
99-09-2	3-Nitroaniline	ND	385	1930	U
83-32-9	Acenaphthene	ND	385	1930	U
51-28-5	2,4-Dinitrophenol	ND	385	3850	U
100-02-7	4-Nitrophenol	ND	385	1930	U
132-64-9	Dibenzofuran	ND	385	1930	U
606-20-2	2,6-Dinitrotoluene	ND	385	1930	U
121-14-2	2,4-Dinitrotoluene	ND	385	1930	U
84-66-2	Diethyl phthalate	ND	385	1930	U
7005-72-3	4-Chlorophenyl-phenylether	ND	385	1930	U
86-73-7	Fluorene	ND	385	1930	U
100-01-6	4-Nitroaniline	ND	385	1930	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	385	1930	U
86-30-6	N-Nitrosodiphenylamine	ND	385	1930	U
101-55-3	4-Bromophenyl-phenylether	ND	385	1930	U
118-74-1	Hexachlorobenzene	ND	385	1930	U
87-86-5	Pentachlorophenol	ND	385	1930	U
85-01-8	Phenanthrene	ND	385	1930	U
120-12-7	Anthracene	ND	385	1930	U
84-74-2	Di-n-butyl phthalate	ND	385	1930	U

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ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02RE1
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11558.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 16:01
Dilution:	10			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	ND	385	1930	U
129-00-0	Pyrene	ND	385	1930	U
85-68-7	Butylbenzylphthalate	ND	385	1930	U
91-94-1	3,3'-Dichlorobenzidine	ND	960	1930	U
56-55-3	Benzo[a]anthracene	ND	385	1930	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	385	1930	U
218-01-9	Chrysene	ND	385	1930	U
117-84-0	Di-n-octyl phthalate	ND	385	1930	U
205-99-2	Benzo[b]fluoranthene	ND	385	1930	U
207-08-9	Benzo[k]fluoranthene	ND	385	1930	U
50-32-8	Benzo[a]pyrene	ND	385	1930	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	385	1930	U
53-70-3	Dibenzo(a,h)anthracene	ND	385	1930	U
191-24-2	Benzo[ghi]perylene	ND	385	1930	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	56%	30-130
Phenol-d5	63%	30-130
Nitrobenzene-d5	72%	30-130
2-Fluorobiphenyl	81%	30-130
2,4,6-Tribromophenol	68%	30-130
Terphenyl-d14	95%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 3550B GCMS	File ID:	E11557.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 15:18
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	38.1	191	U
108-95-2	Phenol	ND	38.1	191	U
111-44-4	bis(2-chloroethyl)ether	ND	38.1	191	U
95-57-8	2-Chlorophenol	ND	38.1	191	U
541-73-1	1,3-Dichlorobenzene	ND	38.1	191	U
106-46-7	1,4-Dichlorobenzene	ND	38.1	191	U
100-51-6	Benzyl alcohol	ND	38.1	191	U
95-50-1	1,2-Dichlorobenzene	ND	38.1	191	U
95-48-7	2-Methylphenol	ND	38.1	191	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	38.1	191	U
106-44-5	3 & 4-Methylphenol	ND	38.1	191	U
621-64-7	N-Nitroso-di-n-propylamine	ND	38.1	191	U
67-72-1	Hexachloroethane	ND	38.1	191	U
98-95-3	Nitrobenzene	ND	38.1	191	U
78-59-1	Isophorone	ND	38.1	191	U
88-75-5	2-Nitrophenol	ND	38.1	191	U
105-67-9	2,4-Dimethylphenol	ND	38.1	191	U
65-85-0	Benzoic acid	ND	95.0	381	U
111-91-1	bis(2-chloroethoxy)methane	ND	38.1	191	U
120-83-2	2,4-Dichlorophenol	ND	38.1	191	U
120-82-1	1,2,4-Trichlorobenzene	ND	38.1	191	U
91-20-3	Naphthalene	1190	38.1	191	
106-47-8	4-Chloroaniline	ND	38.1	191	U
87-68-3	Hexachlorobutadiene	ND	38.1	191	U
59-50-7	4-Chloro-3-methylphenol	ND	38.1	191	U
91-57-6	2-Methylnaphthylene	1140	38.1	191	

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 3550B GCMS	File ID:	E11557.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 15:18
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	38.1	191	U
88-06-2	2,4,6-Trichlorophenol	ND	38.1	191	U
95-95-4	2,4,5-Trichlorophenol	ND	38.1	191	U
91-58-7	2-Chloronaphthalene	ND	38.1	191	U
88-74-4	2-Nitroaniline	ND	38.1	191	U
131-11-3	Dimethylphthalate	ND	38.1	191	U
208-96-8	Acenaphthylene	ND	38.1	191	U
99-09-2	3-Nitroaniline	ND	38.1	191	U
83-32-9	Acenaphthene	ND	38.1	191	U
51-28-5	2,4-Dinitrophenol	ND	38.1	381	U
100-02-7	4-Nitrophenol	ND	38.1	191	U
132-64-9	Dibenzofuran	ND	38.1	191	U
606-20-2	2,6-Dinitrotoluene	ND	38.1	191	U
121-14-2	2,4-Dinitrotoluene	ND	38.1	191	U
84-66-2	Diethyl phthalate	ND	38.1	191	U
7005-72-3	4-Chlorophenyl-phenylether	ND	38.1	191	U
86-73-7	Fluorene	ND	38.1	191	U
100-01-6	4-Nitroaniline	ND	38.1	191	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	38.1	191	U
86-30-6	N-Nitrosodiphenylamine	ND	38.1	191	U
101-55-3	4-Bromophenyl-phenylether	ND	38.1	191	U
118-74-1	Hexachlorobenzene	ND	38.1	191	U
87-86-5	Pentachlorophenol	ND	38.1	191	U
85-01-8	Phenanthrene	ND	38.1	191	U
120-12-7	Anthracene	ND	38.1	191	U
84-74-2	Di-n-butyl phthalate	ND	38.1	191	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 3550B GCMS	File ID:	E11557.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 15:18
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	ND	38.1	191	U
129-00-0	Pyrene	ND	38.1	191	U
85-68-7	Butylbenzylphthalate	ND	38.1	191	U
91-94-1	3,3'-Dichlorobenzidine	ND	95.0	191	U
56-55-3	Benzo[a]anthracene	ND	38.1	191	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	38.1	191	U
218-01-9	Chrysene	ND	38.1	191	U
117-84-0	Di-n-octyl phthalate	ND	38.1	191	U
205-99-2	Benzo[b]fluoranthene	ND	38.1	191	U
207-08-9	Benzo[k]fluoranthene	ND	38.1	191	U
50-32-8	Benzo[a]pyrene	ND	38.1	191	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38.1	191	U
53-70-3	Dibenzo(a,h)anthracene	ND	38.1	191	U
191-24-2	Benzo[ghi]perylene	ND	38.1	191	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	59%	30-130
Phenol-d5	62%	30-130
Nitrobenzene-d5	76%	30-130
2-Fluorobiphenyl	78%	30-130
2,4,6-Tribromophenol	77%	30-130
Terphenyl-d14	94%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

VOLATILES SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/11/16 15:12	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 5035A	File ID:	A10263.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:12
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	33.2	55.3	U
107-13-1	Acrylonitrile	ND	11.1	55.3	U
67-64-1	Acetone	129	5.53	11.1	B
75-71-8	Dichlorodifluoromethane	ND	5.53	11.1	U
74-87-3	Chloromethane	ND	5.53	11.1	U
75-01-4	Vinyl chloride	ND	5.53	11.1	U
74-83-9	Bromomethane	ND	5.53	11.1	U
75-00-3	Chloroethane	ND	5.53	11.1	U
75-69-4	Trichlorofluoromethane	ND	5.53	11.1	U
75-35-4	1,1-Dichloroethene	ND	5.53	11.1	U
75-15-0	Carbon disulfide	ND	5.53	11.1	U
75-09-2	Methylene Chloride	ND	5.53	11.1	U
156-60-5	trans-1,2-Dichloroethene	ND	5.53	11.1	U
75-34-3	1,1-Dichloroethane	ND	5.53	11.1	U
108-05-4	Vinyl acetate	ND	5.53	11.1	U
590-20-7	2,2-Dichloropropane	ND	5.53	11.1	U
78-93-3	2-Butanone	44.4	5.53	11.1	
156-59-4	cis-1,2-Dichloroethene	ND	5.53	11.1	U
67-66-3	Chloroform	ND	5.53	11.1	U
74-97-5	Bromochloromethane	ND	5.53	11.1	U
71-55-6	1,1,1-Trichloroethane	ND	5.53	11.1	U
563-58-6	1,1-Dichloropropene	ND	5.53	11.1	U
56-23-5	Carbon Tetrachloride	ND	5.53	11.1	U
107-06-2	1,2-Dichloroethane	ND	5.53	11.1	U
71-43-2	Benzene	ND	5.53	11.1	U
79-01-6	Trichloroethene	ND	5.53	11.1	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/11/16 15:12	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 5035A	File ID:	A10263.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:12
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	5.53	11.1	U
75-27-4	Bromodichloromethane	ND	5.53	11.1	U
74-95-3	Dibromomethane	ND	5.53	11.1	U
110-75-8	2-Chloroethyl vinyl ether	ND	5.53	11.1	U
10061-01-5	cis-1,3-Dichloropropene	ND	5.53	11.1	U
108-88-3	Toluene	ND	5.53	11.1	U
10061-02-6	trans-1,3-Dichloropropene	ND	5.53	11.1	U
79-00-5	1,1,2-Trichloroethane	ND	5.53	11.1	U
108-10-1	4-Methyl-2-pentanone	ND	5.53	11.1	U
106-93-4	1,2-Dibromoethane	ND	5.53	11.1	U
591-78-6	2-Hexanone	ND	5.53	11.1	U
142-28-9	1,3-Dichloropropane	ND	5.53	11.1	U
127-18-4	Tetrachloroethene	ND	5.53	11.1	U
124-48-1	Dibromochloromethane	ND	5.53	11.1	U
100-41-4	Ethylbenzene	ND	5.53	11.1	U
108-90-7	Chlorobenzene	ND	5.53	11.1	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.53	11.1	U
108-38-3/106-42	m,p-Xylenes	ND	11.1	22.1	U
95-47-6	o-Xylene	ND	11.1	22.1	U
100-42-5	Styrene	ND	5.53	22.1	U
75-25-2	Bromoform	ND	5.53	11.1	U
98-82-8	Isopropylbenzene	ND	5.53	11.1	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.53	11.1	U
96-18-4	1,2,3-Trichloropropane	ND	5.53	11.1	U
103-65-1	n-Propyl Benzene	ND	5.53	11.1	U
108-86-1	Bromobenzene	ND	5.53	11.1	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/11/16 15:12	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 5035A	File ID:	A10263.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:12
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	5.53	11.1	U
95-49-8	2-Chlorotoluene	ND	5.53	11.1	U
106-43-4	4-Chlorotoluene	ND	5.53	11.1	U
98-06-6	tert-Butylbenzene	ND	5.53	11.1	U
95-63-6	1,2,4-Trimethylbenzene	ND	5.53	11.1	U
135-98-8	sec-Butylbenzene	ND	5.53	11.1	U
99-87-6	p-Isopropyltoluene	ND	5.53	11.1	U
541-73-1	1,3-Dichlorobenzene	ND	5.53	11.1	U
106-46-7	1,4-Dichlorobenzene	ND	5.53	11.1	U
104-51-8	n-Butyl Benzene	ND	5.53	11.1	U
95-50-1	1,2-Dichlorobenzene	ND	5.53	11.1	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.53	11.1	U
120-82-1	1,2,4-Trichlorobenzene	ND	5.53	11.1	U
87-68-3	Hexachlorobutadiene	ND	5.53	11.1	U
87-61-6	1,2,3-Trichlorobenzene	ND	5.53	11.1	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	114%	70-130
Toluene-d8	94%	70-130
Bromofluorobenzene	71%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/08/16 19:00	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 5035A	File ID:	A10230.D
Prep Batch:	B6K0818	Sequence:	S6K0809	Analyzed:	11/08/16 19:00
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	5.88	9.80	U
107-13-1	Acrylonitrile	ND	1.96	9.80	U
67-64-1	Acetone	21.4	0.980	1.96	
75-71-8	Dichlorodifluoromethane	ND	0.980	1.96	U
74-87-3	Chloromethane	ND	0.980	1.96	U
75-01-4	Vinyl chloride	ND	0.980	1.96	U
74-83-9	Bromomethane	ND	0.980	1.96	U
75-00-3	Chloroethane	ND	0.980	1.96	U
75-69-4	Trichlorofluoromethane	ND	0.980	1.96	U
75-35-4	1,1-Dichloroethene	ND	0.980	1.96	U
75-15-0	Carbon disulfide	ND	0.980	1.96	U
75-09-2	Methylene Chloride	ND	0.980	1.96	U
156-60-5	trans-1,2-Dichloroethene	ND	0.980	1.96	U
75-34-3	1,1-Dichloroethane	ND	0.980	1.96	U
108-05-4	Vinyl acetate	ND	0.980	1.96	U
590-20-7	2,2-Dichloropropane	ND	0.980	1.96	U
78-93-3	2-Butanone	ND	0.980	1.96	U
156-59-4	cis-1,2-Dichloroethene	ND	0.980	1.96	U
67-66-3	Chloroform	ND	0.980	1.96	U
74-97-5	Bromochloromethane	ND	0.980	1.96	U
71-55-6	1,1,1-Trichloroethane	ND	0.980	1.96	U
563-58-6	1,1-Dichloropropene	ND	0.980	1.96	U
56-23-5	Carbon Tetrachloride	ND	0.980	1.96	U
107-06-2	1,2-Dichloroethane	ND	0.980	1.96	U
71-43-2	Benzene	ND	0.980	1.96	U
79-01-6	Trichloroethene	ND	0.980	1.96	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/08/16 19:00	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 5035A	File ID:	A10230.D
Prep Batch:	B6K0818	Sequence:	S6K0809	Analyzed:	11/08/16 19:00
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	0.980	1.96	U
75-27-4	Bromodichloromethane	ND	0.980	1.96	U
74-95-3	Dibromomethane	ND	0.980	1.96	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.980	1.96	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.980	1.96	U
108-88-3	Toluene	ND	0.980	1.96	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.980	1.96	U
79-00-5	1,1,2-Trichloroethane	ND	0.980	1.96	U
108-10-1	4-Methyl-2-pentanone	ND	0.980	1.96	U
106-93-4	1,2-Dibromoethane	ND	0.980	1.96	U
591-78-6	2-Hexanone	ND	0.980	1.96	U
142-28-9	1,3-Dichloropropane	ND	0.980	1.96	U
127-18-4	Tetrachloroethene	ND	0.980	1.96	U
124-48-1	Dibromochloromethane	ND	0.980	1.96	U
100-41-4	Ethylbenzene	13.0	0.980	1.96	
108-90-7	Chlorobenzene	ND	0.980	1.96	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.980	1.96	U
108-38-3/106-42	m,p-Xylenes	ND	1.96	3.92	U
95-47-6	o-Xylene	ND	1.96	3.92	U
100-42-5	Styrene	ND	0.980	3.92	U
75-25-2	Bromoform	ND	0.980	1.96	U
98-82-8	Isopropylbenzene	37.3	0.980	1.96	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.980	1.96	U
96-18-4	1,2,3-Trichloropropane	ND	0.980	1.96	U
103-65-1	n-Propyl Benzene	103	0.980	1.96	
108-86-1	Bromobenzene	ND	0.980	1.96	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/08/16 19:00	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 5035A	File ID:	A10230.D
Prep Batch:	B6K0818	Sequence:	S6K0809	Analyzed:	11/08/16 19:00
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	0.980	1.96	U
95-49-8	2-Chlorotoluene	ND	0.980	1.96	U
106-43-4	4-Chlorotoluene	ND	0.980	1.96	U
98-06-6	tert-Butylbenzene	ND	0.980	1.96	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.980	1.96	U
135-98-8	sec-Butylbenzene	ND	0.980	1.96	U
99-87-6	p-Isopropyltoluene	ND	0.980	1.96	U
541-73-1	1,3-Dichlorobenzene	ND	0.980	1.96	U
106-46-7	1,4-Dichlorobenzene	ND	0.980	1.96	U
104-51-8	n-Butyl Benzene	12.6	0.980	1.96	
95-50-1	1,2-Dichlorobenzene	ND	0.980	1.96	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.980	1.96	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.980	1.96	U
87-68-3	Hexachlorobutadiene	ND	0.980	1.96	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.980	1.96	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	87%	70-130
Toluene-d8	93%	70-130
Bromofluorobenzene	94%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/08/16 20:03	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 5035A	File ID:	A10232.D
Prep Batch:	B6K0818	Sequence:	S6K0809	Analyzed:	11/08/16 20:03
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	137	229	U
107-13-1	Acrylonitrile	ND	45.8	229	U
67-64-1	Acetone	ND	22.9	45.8	U
75-71-8	Dichlorodifluoromethane	ND	22.9	45.8	U
74-87-3	Chloromethane	ND	22.9	45.8	U
75-01-4	Vinyl chloride	ND	22.9	45.8	U
74-83-9	Bromomethane	ND	22.9	45.8	U
75-00-3	Chloroethane	ND	22.9	45.8	U
75-69-4	Trichlorofluoromethane	ND	22.9	45.8	U
75-35-4	1,1-Dichloroethene	ND	22.9	45.8	U
75-15-0	Carbon disulfide	ND	22.9	45.8	U
75-09-2	Methylene Chloride	ND	22.9	45.8	U
156-60-5	trans-1,2-Dichloroethene	ND	22.9	45.8	U
75-34-3	1,1-Dichloroethane	ND	22.9	45.8	U
108-05-4	Vinyl acetate	ND	22.9	45.8	U
590-20-7	2,2-Dichloropropane	ND	22.9	45.8	U
78-93-3	2-Butanone	ND	22.9	45.8	U
156-59-4	cis-1,2-Dichloroethene	ND	22.9	45.8	U
67-66-3	Chloroform	ND	22.9	45.8	U
74-97-5	Bromochloromethane	ND	22.9	45.8	U
71-55-6	1,1,1-Trichloroethane	ND	22.9	45.8	U
563-58-6	1,1-Dichloropropene	ND	22.9	45.8	U
56-23-5	Carbon Tetrachloride	ND	22.9	45.8	U
107-06-2	1,2-Dichloroethane	ND	22.9	45.8	U
71-43-2	Benzene	ND	22.9	45.8	U
79-01-6	Trichloroethene	ND	22.9	45.8	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/08/16 20:03	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 5035A	File ID:	A10232.D
Prep Batch:	B6K0818	Sequence:	S6K0809	Analyzed:	11/08/16 20:03
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	22.9	45.8	U
75-27-4	Bromodichloromethane	ND	22.9	45.8	U
74-95-3	Dibromomethane	ND	22.9	45.8	U
110-75-8	2-Chloroethyl vinyl ether	ND	22.9	45.8	U
10061-01-5	cis-1,3-Dichloropropene	ND	22.9	45.8	U
108-88-3	Toluene	ND	22.9	45.8	U
10061-02-6	trans-1,3-Dichloropropene	ND	22.9	45.8	U
79-00-5	1,1,2-Trichloroethane	ND	22.9	45.8	U
108-10-1	4-Methyl-2-pentanone	ND	22.9	45.8	U
106-93-4	1,2-Dibromoethane	ND	22.9	45.8	U
591-78-6	2-Hexanone	ND	22.9	45.8	U
142-28-9	1,3-Dichloropropane	ND	22.9	45.8	U
127-18-4	Tetrachloroethene	ND	22.9	45.8	U
124-48-1	Dibromochloromethane	ND	22.9	45.8	U
100-41-4	Ethylbenzene	397	22.9	45.8	D
108-90-7	Chlorobenzene	ND	22.9	45.8	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	22.9	45.8	U
108-38-3/106-42	m,p-Xylenes	ND	45.8	91.5	U
95-47-6	o-Xylene	ND	45.8	91.5	U
100-42-5	Styrene	ND	22.9	91.5	U
75-25-2	Bromoform	ND	22.9	45.8	U
98-82-8	Isopropylbenzene	1920	22.9	45.8	D
79-34-5	1,1,2,2-Tetrachloroethane	ND	22.9	45.8	U
96-18-4	1,2,3-Trichloropropane	ND	22.9	45.8	U
103-65-1	n-Propyl Benzene	7150	22.9	45.8	E, D
108-86-1	Bromobenzene	ND	22.9	45.8	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/08/16 20:03	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 5035A	File ID:	A10232.D
Prep Batch:	B6K0818	Sequence:	S6K0809	Analyzed:	11/08/16 20:03
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	117	22.9	45.8	D
95-49-8	2-Chlorotoluene	ND	22.9	45.8	U
106-43-4	4-Chlorotoluene	ND	22.9	45.8	U
98-06-6	tert-Butylbenzene	ND	22.9	45.8	U
95-63-6	1,2,4-Trimethylbenzene	42.3	22.9	45.8	D, J
135-98-8	sec-Butylbenzene	1140	22.9	45.8	D
99-87-6	p-Isopropyltoluene	234	22.9	45.8	D
541-73-1	1,3-Dichlorobenzene	ND	22.9	45.8	U
106-46-7	1,4-Dichlorobenzene	ND	22.9	45.8	U
104-51-8	n-Butyl Benzene	2770	22.9	45.8	D
95-50-1	1,2-Dichlorobenzene	ND	22.9	45.8	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	22.9	45.8	U
120-82-1	1,2,4-Trichlorobenzene	ND	22.9	45.8	U
87-68-3	Hexachlorobutadiene	ND	22.9	45.8	U
87-61-6	1,2,3-Trichlorobenzene	ND	22.9	45.8	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	87%	70-130
Toluene-d8	91%	70-130
Bromofluorobenzene	106%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03RE1
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/11/16 15:43	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 5035A	File ID:	A10264.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:43
Dilution:	100			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	686	1140	U
107-13-1	Acrylonitrile	ND	229	1140	U
67-64-1	Acetone	ND	114	229	U
75-71-8	Dichlorodifluoromethane	ND	114	229	U
74-87-3	Chloromethane	ND	114	229	U
75-01-4	Vinyl chloride	ND	114	229	U
74-83-9	Bromomethane	ND	114	229	U
75-00-3	Chloroethane	ND	114	229	U
75-69-4	Trichlorofluoromethane	ND	114	229	U
75-35-4	1,1-Dichloroethene	ND	114	229	U
75-15-0	Carbon disulfide	ND	114	229	U
75-09-2	Methylene Chloride	ND	114	229	U
156-60-5	trans-1,2-Dichloroethene	ND	114	229	U
75-34-3	1,1-Dichloroethane	ND	114	229	U
108-05-4	Vinyl acetate	ND	114	229	U
590-20-7	2,2-Dichloropropane	ND	114	229	U
78-93-3	2-Butanone	ND	114	229	U
156-59-4	cis-1,2-Dichloroethene	ND	114	229	U
67-66-3	Chloroform	ND	114	229	U
74-97-5	Bromochloromethane	ND	114	229	U
71-55-6	1,1,1-Trichloroethane	ND	114	229	U
563-58-6	1,1-Dichloropropene	ND	114	229	U
56-23-5	Carbon Tetrachloride	ND	114	229	U
107-06-2	1,2-Dichloroethane	ND	114	229	U
71-43-2	Benzene	ND	114	229	U
79-01-6	Trichloroethene	ND	114	229	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03RE1
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/11/16 15:43	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 5035A	File ID:	A10264.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:43
Dilution:	100			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	114	229	U
75-27-4	Bromodichloromethane	ND	114	229	U
74-95-3	Dibromomethane	ND	114	229	U
110-75-8	2-Chloroethyl vinyl ether	ND	114	229	U
10061-01-5	cis-1,3-Dichloropropene	ND	114	229	U
108-88-3	Toluene	ND	114	229	U
10061-02-6	trans-1,3-Dichloropropene	ND	114	229	U
79-00-5	1,1,2-Trichloroethane	ND	114	229	U
108-10-1	4-Methyl-2-pentanone	ND	114	229	U
106-93-4	1,2-Dibromoethane	ND	114	229	U
591-78-6	2-Hexanone	ND	114	229	U
142-28-9	1,3-Dichloropropane	ND	114	229	U
127-18-4	Tetrachloroethene	ND	114	229	U
124-48-1	Dibromochloromethane	ND	114	229	U
100-41-4	Ethylbenzene	ND	114	229	U
108-90-7	Chlorobenzene	ND	114	229	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	114	229	U
108-38-3/106-42	m,p-Xylenes	ND	229	458	U
95-47-6	o-Xylene	ND	229	458	U
100-42-5	Styrene	ND	114	458	U
75-25-2	Bromoform	ND	114	229	U
98-82-8	Isopropylbenzene	ND	114	229	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	114	229	U
96-18-4	1,2,3-Trichloropropane	ND	114	229	U
103-65-1	n-Propyl Benzene	6640	114	229	D
108-86-1	Bromobenzene	ND	114	229	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03RE1
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/11/16 15:43	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 5035A	File ID:	A10264.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:43
Dilution:	100			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	114	229	U
95-49-8	2-Chlorotoluene	ND	114	229	U
106-43-4	4-Chlorotoluene	ND	114	229	U
98-06-6	tert-Butylbenzene	ND	114	229	U
95-63-6	1,2,4-Trimethylbenzene	ND	114	229	U
135-98-8	sec-Butylbenzene	ND	114	229	U
99-87-6	p-Isopropyltoluene	ND	114	229	U
541-73-1	1,3-Dichlorobenzene	ND	114	229	U
106-46-7	1,4-Dichlorobenzene	ND	114	229	U
104-51-8	n-Butyl Benzene	ND	114	229	U
95-50-1	1,2-Dichlorobenzene	ND	114	229	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	114	229	U
120-82-1	1,2,4-Trichlorobenzene	ND	114	229	U
87-68-3	Hexachlorobutadiene	ND	114	229	U
87-61-6	1,2,3-Trichlorobenzene	ND	114	229	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	103%	70-130
Toluene-d8	101%	70-130
Bromofluorobenzene	102%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Matrix:	Soil
Percent Solids:	27.00	File ID:	110816A-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	13000	67.2	67.2	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7439-97-6	Mercury	ND	0.278	0.278	1	U	11/11/16 07:31	EPA 7471A	11/11/16 13:13 PRT	EPA 7471
7440-36-0	Antimony	ND	13.4	13.4	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-38-2	Arsenic	5.44	3.36	3.36	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-39-3	Barium	74.8	67.2	67.2	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-41-7	Beryllium	ND	1.68	1.68	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-43-9	Cadmium	ND	1.68	1.68	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-70-2	Calcium	8850	84.0	84.0	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-47-3	Chromium	24.8	6.72	6.72	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-48-4	Cobalt	ND	16.8	16.8	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-50-8	Copper	25.7	10.1	10.1	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7439-89-6	Iron	20600	84.0	84.0	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7439-92-1	Lead	38.9	3.36	3.36	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7439-95-4	Magnesium	6320	168	168	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7439-96-5	Manganese	167	6.72	6.72	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-02-0	Nickel	16.0	13.4	13.4	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-09-7	Potassium	1810	168	168	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7782-49-2	Selenium	ND	13.4	13.4	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-22-4	Silver	ND	1.68	1.68	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-23-5	Sodium	3520	168	168	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-28-0	Thallium	ND	5.04	10.1	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-62-2	Vanadium	37.5	16.8	16.8	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-66-6	Zinc	76.3	20.2	20.2	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Matrix:	Soil
Percent Solids:	86.50	File ID:	110816A-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	7210	18.2	18.2	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0867	0.0867	1	U	11/11/16 07:31	EPA 7471A	11/11/16 13:15 PRT	EPA 7471
7440-36-0	Antimony	ND	3.64	3.64	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-38-2	Arsenic	1.08	0.911	0.911	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-39-3	Barium	41.7	18.2	18.2	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.456	0.456	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.456	0.456	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-70-2	Calcium	8550	22.8	22.8	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-47-3	Chromium	16.1	1.82	1.82	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-48-4	Cobalt	7.27	4.56	4.56	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-50-8	Copper	18.2	2.73	2.73	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7439-89-6	Iron	15800	569	569	25	D	11/07/16 15:34	EPA 3050B	11/08/16 13:57 LIT	EPA 6010
7439-92-1	Lead	7.79	0.911	0.911	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7439-95-4	Magnesium	7720	45.6	45.6	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7439-96-5	Manganese	415	1.82	1.82	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-02-0	Nickel	12.9	3.64	3.64	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-09-7	Potassium	1690	45.6	45.6	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7782-49-2	Selenium	ND	3.64	3.64	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-22-4	Silver	ND	0.456	0.456	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-23-5	Sodium	185	45.6	45.6	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-28-0	Thallium	ND	1.37	2.73	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-62-2	Vanadium	27.5	4.56	4.56	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-66-6	Zinc	43.0	5.47	5.47	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
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B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Matrix:	Soil
Percent Solids:	87.40	File ID:	110816A-023

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	6580	18.3	18.3	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0858	0.0858	1	U	11/11/16 07:31	EPA 7471A	11/11/16 13:17 PRT	EPA 7471
7440-36-0	Antimony	ND	3.65	3.65	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-38-2	Arsenic	0.958	0.913	0.913	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-39-3	Barium	38.2	18.3	18.3	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.457	0.457	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.457	0.457	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-70-2	Calcium	8710	22.8	22.8	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-47-3	Chromium	14.3	1.83	1.83	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-48-4	Cobalt	7.10	4.57	4.57	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-50-8	Copper	17.1	2.74	2.74	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7439-89-6	Iron	15600	571	571	25	D	11/07/16 15:34	EPA 3050B	11/08/16 14:02 LIT	EPA 6010
7439-92-1	Lead	8.52	0.913	0.913	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7439-95-4	Magnesium	7580	45.7	45.7	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7439-96-5	Manganese	556	1.83	1.83	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-02-0	Nickel	11.1	3.65	3.65	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-09-7	Potassium	1530	45.7	45.7	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7782-49-2	Selenium	ND	3.65	3.65	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-22-4	Silver	ND	0.457	0.457	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-23-5	Sodium	180	45.7	45.7	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-28-0	Thallium	ND	1.37	2.74	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-62-2	Vanadium	23.7	4.57	4.57	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-66-6	Zinc	41.1	5.48	5.48	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
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J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
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RL - Reporting limit

Accredited Analytical Resources, LLC.

WET CHEMISTRY

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Matrix:	Soil
Percent Solids:	27.00	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	24.8	1.81	1.81	1		11/09/16 10:00	[CALC]	11/10/16 12:53 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	7.41	7.41	1	U	11/09/16 10:00	SW 846 3060A	11/10/16 12:53 NNM	EPA 7196A
NA	Cyanide (total)	ND	3.70	3.70	1	U	11/14/16 09:14	EPA 9010C	11/14/16 15:02 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	27.0	0.100	0.100	1		11/07/16 14:00	Percent Solids	11/08/16 09:00 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Matrix:	Soil
Percent Solids:	86.50	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	16.1	1.58	1.58	1		11/09/16 10:00	[CALC]	11/10/16 12:53 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.31	2.31	1	U	11/09/16 10:00	SW 846 3060A	11/10/16 12:53 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.16	1.16	1	U	11/14/16 09:14	EPA 9010C	11/14/16 15:02 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	86.5	0.100	0.100	1		11/07/16 14:00	Percent Solids	11/08/16 09:00 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Matrix:	Soil
Percent Solids:	87.40	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	14.3	1.60	1.60	1		11/09/16 10:00	[CALC]	11/10/16 12:53 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.29	2.29	1	U	11/09/16 10:00	SW 846 3060A	11/10/16 12:53 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.14	1.14	1	U	11/14/16 09:14	EPA 9010C	11/14/16 15:02 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	87.4	0.100	0.100	1		11/07/16 14:00	Percent Solids	11/08/16 09:00 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1602245

Client Sample ID:	Lab Sample ID:
EP-34	1602245-01
EP-35	1602245-02
EP-36	1602245-03
EP-37	1602245-04
EP-38	1602245-05
EP-39	1602245-06
EP-39	1602245-06RE1
EP-40	1602245-07
DUP-2	1602245-08

This data has been reviewed and accepted by:

Daniel Miguel 12/08/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Methodology Summary

EPA Method SW846 8081/8082:
NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:
NJ 8270C
NY 8270D

Total Mercury by SW846 7471:
NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:
NJ 8260B
NY 8260C

Wet Chemistry:
Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources, LLC.

Internal Chain of Custody

	Out	*In*
1602245-01 (A)		
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
1602245-01 (B)	*Out*	*In*
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-01 (C)	*Out*	*In*
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-01 (D)	*Out*	*In*
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-01RE1 (A)	*Out*	*In*
Walk-In Storage	12/6/16 15:37 by ARS	12/7/16 15:52 by ARS
Walk-In Storage	12/7/16 15:52 by DSM	by DSM
1602245-02 (A)	*Out*	*In*
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
Metals	12/8/16 8:40 by PRT	by PRT
1602245-02 (B)	*Out*	*In*
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-02 (C)	*Out*	*In*
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-02 (D)	*Out*	*In*
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-02RE1 (D)	*Out*	*In*
VOA Storage	12/7/16 14:17 by SG	12/7/16 15:55 by SG

VOA Storage	12/7/16 15:55 by SG	by SG

1602245-03 (A)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
Metals	12/8/16 8:40 by PRT	by PRT

1602245-03 (B)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-03 (C)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-03 (D)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-03RE1 (D)	*Out*	*In*
VOA Storage	12/7/16 16:08 by SG	by SG

1602245-04 (A)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
Metals	12/8/16 8:40 by PRT	by PRT

1602245-04 (B)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-04 (C)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-04 (D)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-04RE1 (D)	*Out*	*In*
VOA Storage	12/7/16 14:17 by SG	12/7/16 15:55 by SG
VOA Storage	12/7/16 15:55 by SG	by SG

1602245-05 (A)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC

Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
1602245-05 (B)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-05 (C)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-05 (D)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-06 (A)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
Metals	12/8/16 8:40 by PRT	by PRT
1602245-06 (B)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-06 (C)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-06 (D)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-06RE1 (A)	*Out*	*In*
Walk-In Storage	12/6/16 15:37 by ARS	12/7/16 15:32 by ARS
Walk-In Storage	12/7/16 15:32 by DSM	by DSM
1602245-07 (A)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
1602245-07 (B)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-07 (C)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-07 (D)	*Out*	*In*

START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-08 (A)	*Out*	*In*
START	12/2/16 16:49 by KMC	12/2/16 16:49 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
Metals	12/8/16 8:40 by PRT	by PRT
1602245-08 (B)	*Out*	*In*
START	12/2/16 16:49 by KMC	12/2/16 16:49 by KMC
1602245-08 (C)	*Out*	*In*
START	12/2/16 16:49 by KMC	12/2/16 16:49 by KMC
1602245-08 (D)	*Out*	*In*
START	12/2/16 16:49 by KMC	12/2/16 16:49 by KMC

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1602245**

Received: 12/2/16 16:45

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Sean Harrison
EMAIL FOR INVOICE:	sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1602245
P.O. #	10BR188

ANALYSIS

PRES. CODE → 5 5 5
CONT. CODE → E G G

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-34	12/2/16 1415	S	3	4	G	X	X	X	-01
EP-35	1424		3						-02
EP-36	1432		4						-03
EP-37	1440		5						-04
EP-38	1455		4						-05
EP-39	1505		5						-06
EP-40	1510		6						-07
DUP-2	1520		6			X	X	X	-08

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE

PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER

TURNAROUND TIME: (CIRCLE ONE)	STANDARD	5 DAY	72 HRS. (IF BLANK STANDARD WILL APPLY)	48 HRS.	24 HRS.	OTHER X
REPORT TYPE:	RESULTS ONLY	REDUCED	FULL X	EDD	EXCEL SPREADSHEET	

COMMENTS: 3 DAY TAT on Results, 5 DAY TAT for CATB Report. NYSDEC Catagory B data deliverables.

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Rachael Barr SIGN:

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Rachael Barr	Print Name: K. Muniz	Print Name:	Print Name:
Signature:	Signature: K Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 12/2/16	Time: 1645	Date Received: / /	Time:
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-34	1602245-01	Soil	12/02/2016 14:15	12/02/2016 16:45
EP-35	1602245-02	Soil	12/02/2016 14:24	12/02/2016 16:45
EP-36	1602245-03	Soil	12/02/2016 14:32	12/02/2016 16:45
EP-37	1602245-04	Soil	12/02/2016 14:40	12/02/2016 16:45
EP-38	1602245-05	Soil	12/02/2016 14:55	12/02/2016 16:45
EP-39	1602245-06	Soil	12/02/2016 15:05	12/02/2016 16:45
EP-40	1602245-07	Soil	12/02/2016 15:10	12/02/2016 16:45
DUP-2	1602245-08	Soil	12/02/2016 15:20	12/02/2016 16:45

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

PEST/PCB

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23708.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:30
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.831	0.831	U
319-85-7	beta-BHC	ND	0.831	0.831	U
319-86-8	delta-BHC	ND	0.831	0.831	U
58-89-9	gamma-BHC [Lindane]	ND	0.831	0.831	U
76-44-8	Heptachlor	ND	0.831	0.831	U
309-00-2	Aldrin	ND	0.831	0.831	U
1024-57-3	Heptachlor Epoxide	ND	0.831	0.831	U
959-98-8	Endosulfan I	ND	0.831	0.831	U
60-57-1	Dieldrin	ND	1.68	1.68	U
72-55-9	4,4'-DDE	ND	1.68	1.68	U
72-20-8	Endrin	ND	1.68	1.68	U
33213-65-9	Endosulfan II	ND	1.68	1.68	U
72-54-8	4,4'-DDD	ND	1.68	1.68	U
1031-07-8	Endosulfan sulfate	ND	1.68	1.68	U
50-29-3	4,4'-DDT	ND	1.68	1.68	U
72-43-5	Methoxychlor	ND	2.52	8.39	U
53494-70-5	Endrin ketone	ND	1.68	1.68	U
7421-93-4	Endrin aldehyde	ND	1.68	1.68	U
5103-71-9	alpha-Chlordane	ND	0.831	0.831	U
5566-34-7	gamma-Chlordane	ND	0.831	0.831	U
8001-35-2	Toxaphene	ND	41.9	41.9	U
12674-11-2	Aroclor-1016	ND	20.9	41.9	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23708.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:30
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.9	41.9	U
11141-16-5	Aroclor-1232	ND	20.9	41.9	U
53469-21-9	Aroclor-1242	ND	20.9	41.9	U
12672-29-6	Aroclor-1248	ND	20.9	41.9	U
11097-69-1	Aroclor-1254	ND	20.9	41.9	U
11096-82-5	Aroclor-1260	ND	20.9	41.9	U
37324-23-5	Aroclor-1262	ND	20.9	41.9	U
11100-14-4	Aroclor-1268	ND	20.9	41.9	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	67.3%	30-150
Tetrachloro-m-xylene [2C]	74.8%	30-150
Decachlorobiphenyl	70.1%	30-150
Decachlorobiphenyl [2C]	99.6%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B	File ID:	A23709.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:59
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.860	0.860	U
319-85-7	beta-BHC	ND	0.860	0.860	U
319-86-8	delta-BHC	ND	0.860	0.860	U
58-89-9	gamma-BHC [Lindane]	ND	0.860	0.860	U
76-44-8	Heptachlor	ND	0.860	0.860	U
309-00-2	Aldrin	ND	0.860	0.860	U
1024-57-3	Heptachlor Epoxide	ND	0.860	0.860	U
959-98-8	Endosulfan I	ND	0.860	0.860	U
60-57-1	Dieldrin	ND	1.73	1.73	U
72-55-9	4,4'-DDE	ND	1.73	1.73	U
72-20-8	Endrin	ND	1.73	1.73	U
33213-65-9	Endosulfan II	ND	1.73	1.73	U
72-54-8	4,4'-DDD	ND	1.73	1.73	U
1031-07-8	Endosulfan sulfate	ND	1.73	1.73	U
50-29-3	4,4'-DDT	ND	1.73	1.73	U
72-43-5	Methoxychlor	ND	2.61	8.68	U
53494-70-5	Endrin ketone	ND	1.73	1.73	U
7421-93-4	Endrin aldehyde	ND	1.73	1.73	U
5103-71-9	alpha-Chlordane	ND	0.860	0.860	U
5566-34-7	gamma-Chlordane	ND	0.860	0.860	U
8001-35-2	Toxaphene	ND	43.4	43.4	U
12674-11-2	Aroclor-1016	ND	21.6	43.4	U

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ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B	File ID:	A23709.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:59
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	21.6	43.4	U
11141-16-5	Aroclor-1232	ND	21.6	43.4	U
53469-21-9	Aroclor-1242	ND	21.6	43.4	U
12672-29-6	Aroclor-1248	ND	21.6	43.4	U
11097-69-1	Aroclor-1254	ND	21.6	43.4	U
11096-82-5	Aroclor-1260	ND	21.6	43.4	U
37324-23-5	Aroclor-1262	ND	21.6	43.4	U
11100-14-4	Aroclor-1268	ND	21.6	43.4	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	65.2%	30-150
Tetrachloro-m-xylene [2C]	69.3%	30-150
Decachlorobiphenyl	71.5%	30-150
Decachlorobiphenyl [2C]	90.7%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23710.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:28
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.831	0.831	U
319-85-7	beta-BHC	ND	0.831	0.831	U
319-86-8	delta-BHC	ND	0.831	0.831	U
58-89-9	gamma-BHC [Lindane]	ND	0.831	0.831	U
76-44-8	Heptachlor	ND	0.831	0.831	U
309-00-2	Aldrin	ND	0.831	0.831	U
1024-57-3	Heptachlor Epoxide	ND	0.831	0.831	U
959-98-8	Endosulfan I	ND	0.831	0.831	U
60-57-1	Dieldrin	ND	1.68	1.68	U
72-55-9	4,4'-DDE	ND	1.68	1.68	U
72-20-8	Endrin	ND	1.68	1.68	U
33213-65-9	Endosulfan II	ND	1.68	1.68	U
72-54-8	4,4'-DDD	ND	1.68	1.68	U
1031-07-8	Endosulfan sulfate	ND	1.68	1.68	U
50-29-3	4,4'-DDT	ND	1.68	1.68	U
72-43-5	Methoxychlor	ND	2.52	8.39	U
53494-70-5	Endrin ketone	ND	1.68	1.68	U
7421-93-4	Endrin aldehyde	ND	1.68	1.68	U
5103-71-9	alpha-Chlordane	ND	0.831	0.831	U
5566-34-7	gamma-Chlordane	ND	0.831	0.831	U
8001-35-2	Toxaphene	ND	41.9	41.9	U
12674-11-2	Aroclor-1016	ND	20.9	41.9	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23710.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:28
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.9	41.9	U
11141-16-5	Aroclor-1232	ND	20.9	41.9	U
53469-21-9	Aroclor-1242	ND	20.9	41.9	U
12672-29-6	Aroclor-1248	ND	20.9	41.9	U
11097-69-1	Aroclor-1254	ND	20.9	41.9	U
11096-82-5	Aroclor-1260	ND	20.9	41.9	U
37324-23-5	Aroclor-1262	ND	20.9	41.9	U
11100-14-4	Aroclor-1268	ND	20.9	41.9	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	61.7%	30-150
Tetrachloro-m-xylene [2C]	69.5%	30-150
Decachlorobiphenyl	67.0%	30-150
Decachlorobiphenyl [2C]	92.0%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B	File ID:	A23711.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:58
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.825	0.825	U
319-85-7	beta-BHC	ND	0.825	0.825	U
319-86-8	delta-BHC	ND	0.825	0.825	U
58-89-9	gamma-BHC [Lindane]	ND	0.825	0.825	U
76-44-8	Heptachlor	ND	0.825	0.825	U
309-00-2	Aldrin	ND	0.825	0.825	U
1024-57-3	Heptachlor Epoxide	ND	0.825	0.825	U
959-98-8	Endosulfan I	ND	0.825	0.825	U
60-57-1	Dieldrin	ND	1.66	1.66	U
72-55-9	4,4'-DDE	ND	1.66	1.66	U
72-20-8	Endrin	ND	1.66	1.66	U
33213-65-9	Endosulfan II	ND	1.66	1.66	U
72-54-8	4,4'-DDD	ND	1.66	1.66	U
1031-07-8	Endosulfan sulfate	ND	1.66	1.66	U
50-29-3	4,4'-DDT	ND	1.66	1.66	U
72-43-5	Methoxychlor	ND	2.50	8.32	U
53494-70-5	Endrin ketone	ND	1.66	1.66	U
7421-93-4	Endrin aldehyde	ND	1.66	1.66	U
5103-71-9	alpha-Chlordane	ND	0.825	0.825	U
5566-34-7	gamma-Chlordane	ND	0.825	0.825	U
8001-35-2	Toxaphene	ND	41.6	41.6	U
12674-11-2	Aroclor-1016	ND	20.8	41.6	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B	File ID:	A23711.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:58
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.8	41.6	U
11141-16-5	Aroclor-1232	ND	20.8	41.6	U
53469-21-9	Aroclor-1242	ND	20.8	41.6	U
12672-29-6	Aroclor-1248	ND	20.8	41.6	U
11097-69-1	Aroclor-1254	ND	20.8	41.6	U
11096-82-5	Aroclor-1260	ND	20.8	41.6	U
37324-23-5	Aroclor-1262	ND	20.8	41.6	U
11100-14-4	Aroclor-1268	ND	20.8	41.6	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	63.5%	30-150
Tetrachloro-m-xylene [2C]	71.6%	30-150
Decachlorobiphenyl	69.5%	30-150
Decachlorobiphenyl [2C]	90.8%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B	File ID:	A23712.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:27
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.793	0.793	U
319-85-7	beta-BHC	ND	0.793	0.793	U
319-86-8	delta-BHC	ND	0.793	0.793	U
58-89-9	gamma-BHC [Lindane]	ND	0.793	0.793	U
76-44-8	Heptachlor	ND	0.793	0.793	U
309-00-2	Aldrin	ND	0.793	0.793	U
1024-57-3	Heptachlor Epoxide	ND	0.793	0.793	U
959-98-8	Endosulfan I	ND	0.793	0.793	U
60-57-1	Dieldrin	ND	1.60	1.60	U
72-55-9	4,4'-DDE	ND	1.60	1.60	U
72-20-8	Endrin	ND	1.60	1.60	U
33213-65-9	Endosulfan II	ND	1.60	1.60	U
72-54-8	4,4'-DDD	ND	1.60	1.60	U
1031-07-8	Endosulfan sulfate	ND	1.60	1.60	U
50-29-3	4,4'-DDT	ND	1.60	1.60	U
72-43-5	Methoxychlor	ND	2.40	8.00	U
53494-70-5	Endrin ketone	ND	1.60	1.60	U
7421-93-4	Endrin aldehyde	ND	1.60	1.60	U
5103-71-9	alpha-Chlordane	ND	0.793	0.793	U
5566-34-7	gamma-Chlordane	ND	0.793	0.793	U
8001-35-2	Toxaphene	ND	40.0	40.0	U
12674-11-2	Aroclor-1016	ND	20.0	40.0	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B	File ID:	A23712.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:27
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.0	40.0	U
11141-16-5	Aroclor-1232	ND	20.0	40.0	U
53469-21-9	Aroclor-1242	ND	20.0	40.0	U
12672-29-6	Aroclor-1248	ND	20.0	40.0	U
11097-69-1	Aroclor-1254	ND	20.0	40.0	U
11096-82-5	Aroclor-1260	ND	20.0	40.0	U
37324-23-5	Aroclor-1262	ND	20.0	40.0	U
11100-14-4	Aroclor-1268	ND	20.0	40.0	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	76.7%	30-150
Tetrachloro-m-xylene [2C]	91.1%	30-150
Decachlorobiphenyl	83.5%	30-150
Decachlorobiphenyl [2C]	84.7%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B	File ID:	A23713.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:56
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.806	0.806	U
319-85-7	beta-BHC	ND	0.806	0.806	U
319-86-8	delta-BHC	ND	0.806	0.806	U
58-89-9	gamma-BHC [Lindane]	ND	0.806	0.806	U
76-44-8	Heptachlor	ND	0.806	0.806	U
309-00-2	Aldrin	ND	0.806	0.806	U
1024-57-3	Heptachlor Epoxide	ND	0.806	0.806	U
959-98-8	Endosulfan I	ND	0.806	0.806	U
60-57-1	Dieldrin	ND	1.62	1.62	U
72-55-9	4,4'-DDE	ND	1.62	1.62	U
72-20-8	Endrin	ND	1.62	1.62	U
33213-65-9	Endosulfan II	ND	1.62	1.62	U
72-54-8	4,4'-DDD	ND	1.62	1.62	U
1031-07-8	Endosulfan sulfate	ND	1.62	1.62	U
50-29-3	4,4'-DDT	ND	1.62	1.62	U
72-43-5	Methoxychlor	ND	2.44	8.13	U
53494-70-5	Endrin ketone	ND	1.62	1.62	U
7421-93-4	Endrin aldehyde	ND	1.62	1.62	U
5103-71-9	alpha-Chlordane	ND	0.806	0.806	U
5566-34-7	gamma-Chlordane	ND	0.806	0.806	U
8001-35-2	Toxaphene	ND	40.7	40.7	U
12674-11-2	Aroclor-1016	ND	20.3	40.7	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B	File ID:	A23713.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:56
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.3	40.7	U
11141-16-5	Aroclor-1232	ND	20.3	40.7	U
53469-21-9	Aroclor-1242	ND	20.3	40.7	U
12672-29-6	Aroclor-1248	ND	20.3	40.7	U
11097-69-1	Aroclor-1254	ND	20.3	40.7	U
11096-82-5	Aroclor-1260	ND	20.3	40.7	U
37324-23-5	Aroclor-1262	ND	20.3	40.7	U
11100-14-4	Aroclor-1268	ND	20.3	40.7	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	63.9%	30-150
Tetrachloro-m-xylene [2C]	70.8%	30-150
Decachlorobiphenyl	67.2%	30-150
Decachlorobiphenyl [2C]	76.5%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B	File ID:	A23729.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 16:48
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.758	0.758	U
319-85-7	beta-BHC	ND	0.758	0.758	U
319-86-8	delta-BHC	ND	0.758	0.758	U
58-89-9	gamma-BHC [Lindane]	ND	0.758	0.758	U
76-44-8	Heptachlor	ND	0.758	0.758	U
309-00-2	Aldrin	ND	0.758	0.758	U
1024-57-3	Heptachlor Epoxide	ND	0.758	0.758	U
959-98-8	Endosulfan I	ND	0.758	0.758	U
60-57-1	Dieldrin	ND	1.53	1.53	U
72-55-9	4,4'-DDE	ND	1.53	1.53	U
72-20-8	Endrin	ND	1.53	1.53	U
33213-65-9	Endosulfan II	ND	1.53	1.53	U
72-54-8	4,4'-DDD	ND	1.53	1.53	U
1031-07-8	Endosulfan sulfate	ND	1.53	1.53	U
50-29-3	4,4'-DDT	ND	1.53	1.53	U
72-43-5	Methoxychlor	ND	2.30	7.65	U
53494-70-5	Endrin ketone	ND	1.53	1.53	U
7421-93-4	Endrin aldehyde	ND	1.53	1.53	U
5103-71-9	alpha-Chlordane	ND	0.758	0.758	U
5566-34-7	gamma-Chlordane	ND	0.758	0.758	U
8001-35-2	Toxaphene	ND	38.2	38.2	U
12674-11-2	Aroclor-1016	ND	19.1	38.2	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B	File ID:	A23729.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 16:48
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.1	38.2	U
11141-16-5	Aroclor-1232	ND	19.1	38.2	U
53469-21-9	Aroclor-1242	ND	19.1	38.2	U
12672-29-6	Aroclor-1248	ND	19.1	38.2	U
11097-69-1	Aroclor-1254	ND	19.1	38.2	U
11096-82-5	Aroclor-1260	ND	19.1	38.2	U
37324-23-5	Aroclor-1262	ND	19.1	38.2	U
11100-14-4	Aroclor-1268	ND	19.1	38.2	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	73.8%	30-150
Tetrachloro-m-xylene [2C]	89.3%	30-150
Decachlorobiphenyl	92.3%	30-150
Decachlorobiphenyl [2C]	127%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B	File ID:	A23730.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 17:17
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.767	0.767	U
319-85-7	beta-BHC	ND	0.767	0.767	U
319-86-8	delta-BHC	ND	0.767	0.767	U
58-89-9	gamma-BHC [Lindane]	ND	0.767	0.767	U
76-44-8	Heptachlor	ND	0.767	0.767	U
309-00-2	Aldrin	ND	0.767	0.767	U
1024-57-3	Heptachlor Epoxide	ND	0.767	0.767	U
959-98-8	Endosulfan I	ND	0.767	0.767	U
60-57-1	Dieldrin	ND	1.54	1.54	U
72-55-9	4,4'-DDE	ND	1.54	1.54	U
72-20-8	Endrin	ND	1.54	1.54	U
33213-65-9	Endosulfan II	ND	1.54	1.54	U
72-54-8	4,4'-DDD	ND	1.54	1.54	U
1031-07-8	Endosulfan sulfate	ND	1.54	1.54	U
50-29-3	4,4'-DDT	ND	1.54	1.54	U
72-43-5	Methoxychlor	ND	2.32	7.74	U
53494-70-5	Endrin ketone	ND	1.54	1.54	U
7421-93-4	Endrin aldehyde	ND	1.54	1.54	U
5103-71-9	alpha-Chlordane	ND	0.767	0.767	U
5566-34-7	gamma-Chlordane	ND	0.767	0.767	U
8001-35-2	Toxaphene	ND	38.7	38.7	U
12674-11-2	Aroclor-1016	ND	19.3	38.7	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B	File ID:	A23730.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 17:17
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.3	38.7	U
11141-16-5	Aroclor-1232	ND	19.3	38.7	U
53469-21-9	Aroclor-1242	ND	19.3	38.7	U
12672-29-6	Aroclor-1248	ND	19.3	38.7	U
11097-69-1	Aroclor-1254	ND	19.3	38.7	U
11096-82-5	Aroclor-1260	ND	19.3	38.7	U
37324-23-5	Aroclor-1262	ND	19.3	38.7	U
11100-14-4	Aroclor-1268	ND	19.3	38.7	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	76.6%	30-150
Tetrachloro-m-xylene [2C]	92.5%	30-150
Decachlorobiphenyl	94.1%	30-150
Decachlorobiphenyl [2C]	114%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

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ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4289.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 20:20
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	41.9	210	U
108-95-2	Phenol	ND	41.9	210	U
111-44-4	bis(2-chloroethyl)ether	ND	41.9	210	U
95-57-8	2-Chlorophenol	ND	41.9	210	U
541-73-1	1,3-Dichlorobenzene	ND	41.9	210	U
106-46-7	1,4-Dichlorobenzene	ND	41.9	210	U
100-51-6	Benzyl alcohol	ND	41.9	210	U
95-50-1	1,2-Dichlorobenzene	ND	41.9	210	U
95-48-7	2-Methylphenol	ND	41.9	210	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	41.9	210	U
106-44-5	3 & 4-Methylphenol	ND	41.9	210	U
621-64-7	N-Nitroso-di-n-propylamine	ND	41.9	210	U
67-72-1	Hexachloroethane	ND	41.9	210	U
98-95-3	Nitrobenzene	ND	41.9	210	U
78-59-1	Isophorone	ND	41.9	210	U
88-75-5	2-Nitrophenol	ND	41.9	210	U
105-67-9	2,4-Dimethylphenol	ND	41.9	210	U
65-85-0	Benzoic acid	ND	105	419	U
111-91-1	bis(2-chloroethoxy)methane	ND	41.9	210	U
120-83-2	2,4-Dichlorophenol	ND	41.9	210	U
120-82-1	1,2,4-Trichlorobenzene	ND	41.9	210	U
91-20-3	Naphthalene	ND	41.9	210	U
106-47-8	4-Chloroaniline	ND	41.9	210	U
87-68-3	Hexachlorobutadiene	ND	41.9	210	U
59-50-7	4-Chloro-3-methylphenol	ND	41.9	210	U
91-57-6	2-Methylnaphthylene	ND	41.9	210	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4289.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 20:20
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	41.9	210	U
88-06-2	2,4,6-Trichlorophenol	ND	41.9	210	U
95-95-4	2,4,5-Trichlorophenol	ND	41.9	210	U
91-58-7	2-Chloronaphthalene	ND	41.9	210	U
88-74-4	2-Nitroaniline	ND	41.9	210	U
131-11-3	Dimethylphthalate	ND	41.9	210	U
208-96-8	Acenaphthylene	ND	41.9	210	U
99-09-2	3-Nitroaniline	ND	41.9	210	U
83-32-9	Acenaphthene	48.4	41.9	210	J
51-28-5	2,4-Dinitrophenol	ND	41.9	419	U
100-02-7	4-Nitrophenol	ND	41.9	210	U
132-64-9	Dibenzofuran	ND	41.9	210	U
606-20-2	2,6-Dinitrotoluene	ND	41.9	210	U
121-14-2	2,4-Dinitrotoluene	ND	41.9	210	U
84-66-2	Diethyl phthalate	ND	41.9	210	U
7005-72-3	4-Chlorophenyl-phenylether	ND	41.9	210	U
86-73-7	Fluorene	61.0	41.9	210	J
100-01-6	4-Nitroaniline	ND	41.9	210	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	41.9	210	U
86-30-6	N-Nitrosodiphenylamine	ND	41.9	210	U
101-55-3	4-Bromophenyl-phenylether	ND	41.9	210	U
118-74-1	Hexachlorobenzene	ND	41.9	210	U
87-86-5	Pentachlorophenol	ND	41.9	210	U
85-01-8	Phenanthrene	666	41.9	210	
120-12-7	Anthracene	133	41.9	210	J
84-74-2	Di-n-butyl phthalate	ND	41.9	210	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4289.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 20:20
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	924	41.9	210	
129-00-0	Pyrene	820	41.9	210	
85-68-7	Butylbenzylphthalate	ND	41.9	210	U
91-94-1	3,3'-Dichlorobenzidine	ND	105	210	U
56-55-3	Benzo[a]anthracene	390	41.9	210	
117-81-7	bis(2-ethylhexyl)phthalate	ND	41.9	210	U
218-01-9	Chrysene	403	41.9	210	
117-84-0	Di-n-octyl phthalate	ND	41.9	210	U
205-99-2	Benzo[b]fluoranthene	643	41.9	210	
207-08-9	Benzo[k]fluoranthene	198	41.9	210	J
50-32-8	Benzo[a]pyrene	386	41.9	210	
193-39-5	Indeno(1,2,3-cd)pyrene	83.5	41.9	210	J
53-70-3	Dibenzo(a,h)anthracene	ND	41.9	210	U
191-24-2	Benzo[ghi]perylene	75.9	41.9	210	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	54%	30-130
Phenol-d5	64%	30-130
Nitrobenzene-d5	73%	30-130
2-Fluorobiphenyl	71%	30-130
2,4,6-Tribromophenol	74%	30-130
Terphenyl-d14	89%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B GCMS	File ID:	B4283.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:54
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	43.4	218	U
108-95-2	Phenol	ND	43.4	218	U
111-44-4	bis(2-chloroethyl)ether	ND	43.4	218	U
95-57-8	2-Chlorophenol	ND	43.4	218	U
541-73-1	1,3-Dichlorobenzene	ND	43.4	218	U
106-46-7	1,4-Dichlorobenzene	ND	43.4	218	U
100-51-6	Benzyl alcohol	ND	43.4	218	U
95-50-1	1,2-Dichlorobenzene	ND	43.4	218	U
95-48-7	2-Methylphenol	ND	43.4	218	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	43.4	218	U
106-44-5	3 & 4-Methylphenol	ND	43.4	218	U
621-64-7	N-Nitroso-di-n-propylamine	ND	43.4	218	U
67-72-1	Hexachloroethane	ND	43.4	218	U
98-95-3	Nitrobenzene	ND	43.4	218	U
78-59-1	Isophorone	ND	43.4	218	U
88-75-5	2-Nitrophenol	ND	43.4	218	U
105-67-9	2,4-Dimethylphenol	ND	43.4	218	U
65-85-0	Benzoic acid	ND	108	434	U
111-91-1	bis(2-chloroethoxy)methane	ND	43.4	218	U
120-83-2	2,4-Dichlorophenol	ND	43.4	218	U
120-82-1	1,2,4-Trichlorobenzene	ND	43.4	218	U
91-20-3	Naphthalene	47.2	43.4	218	J
106-47-8	4-Chloroaniline	ND	43.4	218	U
87-68-3	Hexachlorobutadiene	ND	43.4	218	U
59-50-7	4-Chloro-3-methylphenol	ND	43.4	218	U
91-57-6	2-Methylnaphthylene	ND	43.4	218	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B GCMS	File ID:	B4283.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:54
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	43.4	218	U
88-06-2	2,4,6-Trichlorophenol	ND	43.4	218	U
95-95-4	2,4,5-Trichlorophenol	ND	43.4	218	U
91-58-7	2-Chloronaphthalene	ND	43.4	218	U
88-74-4	2-Nitroaniline	ND	43.4	218	U
131-11-3	Dimethylphthalate	ND	43.4	218	U
208-96-8	Acenaphthylene	ND	43.4	218	U
99-09-2	3-Nitroaniline	ND	43.4	218	U
83-32-9	Acenaphthene	ND	43.4	218	U
51-28-5	2,4-Dinitrophenol	ND	43.4	434	U
100-02-7	4-Nitrophenol	ND	43.4	218	U
132-64-9	Dibenzofuran	ND	43.4	218	U
606-20-2	2,6-Dinitrotoluene	ND	43.4	218	U
121-14-2	2,4-Dinitrotoluene	ND	43.4	218	U
84-66-2	Diethyl phthalate	ND	43.4	218	U
7005-72-3	4-Chlorophenyl-phenylether	ND	43.4	218	U
86-73-7	Fluorene	51.5	43.4	218	J
100-01-6	4-Nitroaniline	ND	43.4	218	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	43.4	218	U
86-30-6	N-Nitrosodiphenylamine	ND	43.4	218	U
101-55-3	4-Bromophenyl-phenylether	ND	43.4	218	U
118-74-1	Hexachlorobenzene	ND	43.4	218	U
87-86-5	Pentachlorophenol	ND	43.4	218	U
85-01-8	Phenanthrene	512	43.4	218	
120-12-7	Anthracene	107	43.4	218	J
84-74-2	Di-n-butyl phthalate	ND	43.4	218	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B GCMS	File ID:	B4283.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:54
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	572	43.4	218	
129-00-0	Pyrene	452	43.4	218	
85-68-7	Butylbenzylphthalate	ND	43.4	218	U
91-94-1	3,3'-Dichlorobenzidine	ND	108	218	U
56-55-3	Benzo[a]anthracene	221	43.4	218	
117-81-7	bis(2-ethylhexyl)phthalate	ND	43.4	218	U
218-01-9	Chrysene	237	43.4	218	
117-84-0	Di-n-octyl phthalate	ND	43.4	218	U
205-99-2	Benzo[b]fluoranthene	263	43.4	218	
207-08-9	Benzo[k]fluoranthene	84.4	43.4	218	J
50-32-8	Benzo[a]pyrene	210	43.4	218	J
193-39-5	Indeno(1,2,3-cd)pyrene	88.4	43.4	218	J
53-70-3	Dibenzo(a,h)anthracene	ND	43.4	218	U
191-24-2	Benzo[ghi]perylene	99.9	43.4	218	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	43%	30-130
Phenol-d5	47%	30-130
Nitrobenzene-d5	52%	30-130
2-Fluorobiphenyl	52%	30-130
2,4,6-Tribromophenol	67%	30-130
Terphenyl-d14	64%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4284.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 16:39
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	41.9	210	U
108-95-2	Phenol	ND	41.9	210	U
111-44-4	bis(2-chloroethyl)ether	ND	41.9	210	U
95-57-8	2-Chlorophenol	ND	41.9	210	U
541-73-1	1,3-Dichlorobenzene	ND	41.9	210	U
106-46-7	1,4-Dichlorobenzene	ND	41.9	210	U
100-51-6	Benzyl alcohol	ND	41.9	210	U
95-50-1	1,2-Dichlorobenzene	ND	41.9	210	U
95-48-7	2-Methylphenol	ND	41.9	210	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	41.9	210	U
106-44-5	3 & 4-Methylphenol	ND	41.9	210	U
621-64-7	N-Nitroso-di-n-propylamine	ND	41.9	210	U
67-72-1	Hexachloroethane	ND	41.9	210	U
98-95-3	Nitrobenzene	ND	41.9	210	U
78-59-1	Isophorone	ND	41.9	210	U
88-75-5	2-Nitrophenol	ND	41.9	210	U
105-67-9	2,4-Dimethylphenol	ND	41.9	210	U
65-85-0	Benzoic acid	ND	105	419	U
111-91-1	bis(2-chloroethoxy)methane	ND	41.9	210	U
120-83-2	2,4-Dichlorophenol	ND	41.9	210	U
120-82-1	1,2,4-Trichlorobenzene	ND	41.9	210	U
91-20-3	Naphthalene	ND	41.9	210	U
106-47-8	4-Chloroaniline	ND	41.9	210	U
87-68-3	Hexachlorobutadiene	ND	41.9	210	U
59-50-7	4-Chloro-3-methylphenol	ND	41.9	210	U
91-57-6	2-Methylnaphthylene	ND	41.9	210	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4284.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 16:39
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	41.9	210	U
88-06-2	2,4,6-Trichlorophenol	ND	41.9	210	U
95-95-4	2,4,5-Trichlorophenol	ND	41.9	210	U
91-58-7	2-Chloronaphthalene	ND	41.9	210	U
88-74-4	2-Nitroaniline	ND	41.9	210	U
131-11-3	Dimethylphthalate	ND	41.9	210	U
208-96-8	Acenaphthylene	ND	41.9	210	U
99-09-2	3-Nitroaniline	ND	41.9	210	U
83-32-9	Acenaphthene	85.2	41.9	210	J
51-28-5	2,4-Dinitrophenol	ND	41.9	419	U
100-02-7	4-Nitrophenol	ND	41.9	210	U
132-64-9	Dibenzofuran	55.5	41.9	210	J
606-20-2	2,6-Dinitrotoluene	ND	41.9	210	U
121-14-2	2,4-Dinitrotoluene	ND	41.9	210	U
84-66-2	Diethyl phthalate	ND	41.9	210	U
7005-72-3	4-Chlorophenyl-phenylether	ND	41.9	210	U
86-73-7	Fluorene	89.1	41.9	210	J
100-01-6	4-Nitroaniline	ND	41.9	210	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	41.9	210	U
86-30-6	N-Nitrosodiphenylamine	ND	41.9	210	U
101-55-3	4-Bromophenyl-phenylether	ND	41.9	210	U
118-74-1	Hexachlorobenzene	ND	41.9	210	U
87-86-5	Pentachlorophenol	ND	41.9	210	U
85-01-8	Phenanthrene	965	41.9	210	
120-12-7	Anthracene	192	41.9	210	J
84-74-2	Di-n-butyl phthalate	ND	41.9	210	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4284.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 16:39
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	1030	41.9	210	
129-00-0	Pyrene	811	41.9	210	
85-68-7	Butylbenzylphthalate	ND	41.9	210	U
91-94-1	3,3'-Dichlorobenzidine	ND	105	210	U
56-55-3	Benzo[a]anthracene	406	41.9	210	
117-81-7	bis(2-ethylhexyl)phthalate	ND	41.9	210	U
218-01-9	Chrysene	415	41.9	210	
117-84-0	Di-n-octyl phthalate	ND	41.9	210	U
205-99-2	Benzo[b]fluoranthene	453	41.9	210	
207-08-9	Benzo[k]fluoranthene	146	41.9	210	J
50-32-8	Benzo[a]pyrene	348	41.9	210	
193-39-5	Indeno(1,2,3-cd)pyrene	116	41.9	210	J
53-70-3	Dibenzo(a,h)anthracene	ND	41.9	210	U
191-24-2	Benzo[ghi]perylene	118	41.9	210	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	44%	30-130
Phenol-d5	49%	30-130
Nitrobenzene-d5	52%	30-130
2-Fluorobiphenyl	51%	30-130
2,4,6-Tribromophenol	68%	30-130
Terphenyl-d14	61%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B GCMS	File ID:	B4285.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 17:23
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	41.6	209	U
108-95-2	Phenol	ND	41.6	209	U
111-44-4	bis(2-chloroethyl)ether	ND	41.6	209	U
95-57-8	2-Chlorophenol	ND	41.6	209	U
541-73-1	1,3-Dichlorobenzene	ND	41.6	209	U
106-46-7	1,4-Dichlorobenzene	ND	41.6	209	U
100-51-6	Benzyl alcohol	ND	41.6	209	U
95-50-1	1,2-Dichlorobenzene	ND	41.6	209	U
95-48-7	2-Methylphenol	ND	41.6	209	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	41.6	209	U
106-44-5	3 & 4-Methylphenol	ND	41.6	209	U
621-64-7	N-Nitroso-di-n-propylamine	ND	41.6	209	U
67-72-1	Hexachloroethane	ND	41.6	209	U
98-95-3	Nitrobenzene	ND	41.6	209	U
78-59-1	Isophorone	ND	41.6	209	U
88-75-5	2-Nitrophenol	ND	41.6	209	U
105-67-9	2,4-Dimethylphenol	ND	41.6	209	U
65-85-0	Benzoic acid	ND	104	416	U
111-91-1	bis(2-chloroethoxy)methane	ND	41.6	209	U
120-83-2	2,4-Dichlorophenol	ND	41.6	209	U
120-82-1	1,2,4-Trichlorobenzene	ND	41.6	209	U
91-20-3	Naphthalene	ND	41.6	209	U
106-47-8	4-Chloroaniline	ND	41.6	209	U
87-68-3	Hexachlorobutadiene	ND	41.6	209	U
59-50-7	4-Chloro-3-methylphenol	ND	41.6	209	U
91-57-6	2-Methylnaphthylene	ND	41.6	209	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B GCMS	File ID:	B4285.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 17:23
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	41.6	209	U
88-06-2	2,4,6-Trichlorophenol	ND	41.6	209	U
95-95-4	2,4,5-Trichlorophenol	ND	41.6	209	U
91-58-7	2-Chloronaphthalene	ND	41.6	209	U
88-74-4	2-Nitroaniline	ND	41.6	209	U
131-11-3	Dimethylphthalate	ND	41.6	209	U
208-96-8	Acenaphthylene	ND	41.6	209	U
99-09-2	3-Nitroaniline	ND	41.6	209	U
83-32-9	Acenaphthene	ND	41.6	209	U
51-28-5	2,4-Dinitrophenol	ND	41.6	416	U
100-02-7	4-Nitrophenol	ND	41.6	209	U
132-64-9	Dibenzofuran	ND	41.6	209	U
606-20-2	2,6-Dinitrotoluene	ND	41.6	209	U
121-14-2	2,4-Dinitrotoluene	ND	41.6	209	U
84-66-2	Diethyl phthalate	ND	41.6	209	U
7005-72-3	4-Chlorophenyl-phenylether	ND	41.6	209	U
86-73-7	Fluorene	46.8	41.6	209	J
100-01-6	4-Nitroaniline	ND	41.6	209	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	41.6	209	U
86-30-6	N-Nitrosodiphenylamine	ND	41.6	209	U
101-55-3	4-Bromophenyl-phenylether	ND	41.6	209	U
118-74-1	Hexachlorobenzene	ND	41.6	209	U
87-86-5	Pentachlorophenol	ND	41.6	209	U
85-01-8	Phenanthrene	438	41.6	209	
120-12-7	Anthracene	92.2	41.6	209	J
84-74-2	Di-n-butyl phthalate	ND	41.6	209	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B GCMS	File ID:	B4285.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 17:23
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	530	41.6	209	
129-00-0	Pyrene	407	41.6	209	
85-68-7	Butylbenzylphthalate	ND	41.6	209	U
91-94-1	3,3'-Dichlorobenzidine	ND	104	209	U
56-55-3	Benzo[a]anthracene	209	41.6	209	
117-81-7	bis(2-ethylhexyl)phthalate	ND	41.6	209	U
218-01-9	Chrysene	218	41.6	209	
117-84-0	Di-n-octyl phthalate	ND	41.6	209	U
205-99-2	Benzo[b]fluoranthene	256	41.6	209	
207-08-9	Benzo[k]fluoranthene	85.6	41.6	209	J
50-32-8	Benzo[a]pyrene	202	41.6	209	J
193-39-5	Indeno(1,2,3-cd)pyrene	72.1	41.6	209	J
53-70-3	Dibenzo(a,h)anthracene	ND	41.6	209	U
191-24-2	Benzo[ghi]perylene	70.6	41.6	209	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	51%	30-130
Phenol-d5	57%	30-130
Nitrobenzene-d5	60%	30-130
2-Fluorobiphenyl	58%	30-130
2,4,6-Tribromophenol	69%	30-130
Terphenyl-d14	61%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B GCMS	File ID:	B4280.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 13:41
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	40.0	201	U
108-95-2	Phenol	ND	40.0	201	U
111-44-4	bis(2-chloroethyl)ether	ND	40.0	201	U
95-57-8	2-Chlorophenol	ND	40.0	201	U
541-73-1	1,3-Dichlorobenzene	ND	40.0	201	U
106-46-7	1,4-Dichlorobenzene	ND	40.0	201	U
100-51-6	Benzyl alcohol	ND	40.0	201	U
95-50-1	1,2-Dichlorobenzene	ND	40.0	201	U
95-48-7	2-Methylphenol	ND	40.0	201	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	40.0	201	U
106-44-5	3 & 4-Methylphenol	ND	40.0	201	U
621-64-7	N-Nitroso-di-n-propylamine	ND	40.0	201	U
67-72-1	Hexachloroethane	ND	40.0	201	U
98-95-3	Nitrobenzene	ND	40.0	201	U
78-59-1	Isophorone	ND	40.0	201	U
88-75-5	2-Nitrophenol	ND	40.0	201	U
105-67-9	2,4-Dimethylphenol	ND	40.0	201	U
65-85-0	Benzoic acid	ND	99.8	400	U
111-91-1	bis(2-chloroethoxy)methane	ND	40.0	201	U
120-83-2	2,4-Dichlorophenol	ND	40.0	201	U
120-82-1	1,2,4-Trichlorobenzene	ND	40.0	201	U
91-20-3	Naphthalene	ND	40.0	201	U
106-47-8	4-Chloroaniline	ND	40.0	201	U
87-68-3	Hexachlorobutadiene	ND	40.0	201	U
59-50-7	4-Chloro-3-methylphenol	ND	40.0	201	U
91-57-6	2-Methylnaphthylene	ND	40.0	201	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B GCMS	File ID:	B4280.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 13:41
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	40.0	201	U
88-06-2	2,4,6-Trichlorophenol	ND	40.0	201	U
95-95-4	2,4,5-Trichlorophenol	ND	40.0	201	U
91-58-7	2-Chloronaphthalene	ND	40.0	201	U
88-74-4	2-Nitroaniline	ND	40.0	201	U
131-11-3	Dimethylphthalate	ND	40.0	201	U
208-96-8	Acenaphthylene	ND	40.0	201	U
99-09-2	3-Nitroaniline	ND	40.0	201	U
83-32-9	Acenaphthene	ND	40.0	201	U
51-28-5	2,4-Dinitrophenol	ND	40.0	400	U
100-02-7	4-Nitrophenol	ND	40.0	201	U
132-64-9	Dibenzofuran	ND	40.0	201	U
606-20-2	2,6-Dinitrotoluene	ND	40.0	201	U
121-14-2	2,4-Dinitrotoluene	ND	40.0	201	U
84-66-2	Diethyl phthalate	ND	40.0	201	U
7005-72-3	4-Chlorophenyl-phenylether	ND	40.0	201	U
86-73-7	Fluorene	ND	40.0	201	U
100-01-6	4-Nitroaniline	ND	40.0	201	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	40.0	201	U
86-30-6	N-Nitrosodiphenylamine	ND	40.0	201	U
101-55-3	4-Bromophenyl-phenylether	ND	40.0	201	U
118-74-1	Hexachlorobenzene	ND	40.0	201	U
87-86-5	Pentachlorophenol	ND	40.0	201	U
85-01-8	Phenanthrene	ND	40.0	201	U
120-12-7	Anthracene	ND	40.0	201	U
84-74-2	Di-n-butyl phthalate	ND	40.0	201	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B GCMS	File ID:	B4280.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 13:41
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	ND	40.0	201	U
129-00-0	Pyrene	ND	40.0	201	U
85-68-7	Butylbenzylphthalate	ND	40.0	201	U
91-94-1	3,3'-Dichlorobenzidine	ND	99.8	201	U
56-55-3	Benzo[a]anthracene	ND	40.0	201	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	40.0	201	U
218-01-9	Chrysene	ND	40.0	201	U
117-84-0	Di-n-octyl phthalate	ND	40.0	201	U
205-99-2	Benzo[b]fluoranthene	ND	40.0	201	U
207-08-9	Benzo[k]fluoranthene	ND	40.0	201	U
50-32-8	Benzo[a]pyrene	ND	40.0	201	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	40.0	201	U
53-70-3	Dibenzo(a,h)anthracene	ND	40.0	201	U
191-24-2	Benzo[ghi]perylene	ND	40.0	201	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	55%	30-130
Phenol-d5	60%	30-130
Nitrobenzene-d5	64%	30-130
2-Fluorobiphenyl	61%	30-130
2,4,6-Tribromophenol	69%	30-130
Terphenyl-d14	70%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4288.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 19:36
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	40.7	204	U
108-95-2	Phenol	ND	40.7	204	U
111-44-4	bis(2-chloroethyl)ether	ND	40.7	204	U
95-57-8	2-Chlorophenol	ND	40.7	204	U
541-73-1	1,3-Dichlorobenzene	ND	40.7	204	U
106-46-7	1,4-Dichlorobenzene	ND	40.7	204	U
100-51-6	Benzyl alcohol	ND	40.7	204	U
95-50-1	1,2-Dichlorobenzene	ND	40.7	204	U
95-48-7	2-Methylphenol	90.1	40.7	204	J
39638-32-9	bis(2-chloroisopropyl)ether	ND	40.7	204	U
106-44-5	3 & 4-Methylphenol	222	40.7	204	
621-64-7	N-Nitroso-di-n-propylamine	ND	40.7	204	U
67-72-1	Hexachloroethane	ND	40.7	204	U
98-95-3	Nitrobenzene	ND	40.7	204	U
78-59-1	Isophorone	ND	40.7	204	U
88-75-5	2-Nitrophenol	ND	40.7	204	U
105-67-9	2,4-Dimethylphenol	114	40.7	204	J
65-85-0	Benzoic acid	ND	101	407	U
111-91-1	bis(2-chloroethoxy)methane	ND	40.7	204	U
120-83-2	2,4-Dichlorophenol	ND	40.7	204	U
120-82-1	1,2,4-Trichlorobenzene	ND	40.7	204	U
91-20-3	Naphthalene	11100	40.7	204	E
106-47-8	4-Chloroaniline	ND	40.7	204	U
87-68-3	Hexachlorobutadiene	ND	40.7	204	U
59-50-7	4-Chloro-3-methylphenol	ND	40.7	204	U
91-57-6	2-Methylnaphthylene	4470	40.7	204	

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4288.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 19:36
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	40.7	204	U
88-06-2	2,4,6-Trichlorophenol	ND	40.7	204	U
95-95-4	2,4,5-Trichlorophenol	ND	40.7	204	U
91-58-7	2-Chloronaphthalene	ND	40.7	204	U
88-74-4	2-Nitroaniline	ND	40.7	204	U
131-11-3	Dimethylphthalate	ND	40.7	204	U
208-96-8	Acenaphthylene	235	40.7	204	
99-09-2	3-Nitroaniline	ND	40.7	204	U
83-32-9	Acenaphthene	5530	40.7	204	E
51-28-5	2,4-Dinitrophenol	ND	40.7	407	U
100-02-7	4-Nitrophenol	ND	40.7	204	U
132-64-9	Dibenzofuran	6210	40.7	204	E
606-20-2	2,6-Dinitrotoluene	ND	40.7	204	U
121-14-2	2,4-Dinitrotoluene	ND	40.7	204	U
84-66-2	Diethyl phthalate	ND	40.7	204	U
7005-72-3	4-Chlorophenyl-phenylether	ND	40.7	204	U
86-73-7	Fluorene	6940	40.7	204	E
100-01-6	4-Nitroaniline	ND	40.7	204	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	40.7	204	U
86-30-6	N-Nitrosodiphenylamine	ND	40.7	204	U
101-55-3	4-Bromophenyl-phenylether	ND	40.7	204	U
118-74-1	Hexachlorobenzene	ND	40.7	204	U
87-86-5	Pentachlorophenol	ND	40.7	204	U
85-01-8	Phenanthrene	40200	40.7	204	E
120-12-7	Anthracene	9420	40.7	204	E
84-74-2	Di-n-butyl phthalate	ND	40.7	204	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4288.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 19:36
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	36600	40.7	204	E
129-00-0	Pyrene	47300	40.7	204	E
85-68-7	Butylbenzylphthalate	ND	40.7	204	U
91-94-1	3,3'-Dichlorobenzidine	ND	101	204	U
56-55-3	Benzo[a]anthracene	21900	40.7	204	E
117-81-7	bis(2-ethylhexyl)phthalate	ND	40.7	204	U
218-01-9	Chrysene	14400	40.7	204	E
117-84-0	Di-n-octyl phthalate	ND	40.7	204	U
205-99-2	Benzo[b]fluoranthene	30900	40.7	204	E
207-08-9	Benzo[k]fluoranthene	7450	40.7	204	E
50-32-8	Benzo[a]pyrene	15600	40.7	204	E
193-39-5	Indeno(1,2,3-cd)pyrene	3760	40.7	204	
53-70-3	Dibenzo(a,h)anthracene	1360	40.7	204	
191-24-2	Benzo[ghi]perylene	3780	40.7	204	

Surrogate	% Recovery		Recovery Limits
2-Fluorophenol	66%		30-130
Phenol-d5	74%		30-130
Nitrobenzene-d5	88%		30-130
2-Fluorobiphenyl	79%		30-130
2,4,6-Tribromophenol	96%		30-130
Terphenyl-d14	206%	*	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06RE1
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4305.D
Prep Batch:	B6L0503	Sequence:	S6L0605	Analyzed:	12/06/16 21:11
Dilution:	20			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	813	4080	U
108-95-2	Phenol	ND	813	4080	U
111-44-4	bis(2-chloroethyl)ether	ND	813	4080	U
95-57-8	2-Chlorophenol	ND	813	4080	U
541-73-1	1,3-Dichlorobenzene	ND	813	4080	U
106-46-7	1,4-Dichlorobenzene	ND	813	4080	U
100-51-6	Benzyl alcohol	ND	813	4080	U
95-50-1	1,2-Dichlorobenzene	ND	813	4080	U
95-48-7	2-Methylphenol	ND	813	4080	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	813	4080	U
106-44-5	3 & 4-Methylphenol	ND	813	4080	U
621-64-7	N-Nitroso-di-n-propylamine	ND	813	4080	U
67-72-1	Hexachloroethane	ND	813	4080	U
98-95-3	Nitrobenzene	ND	813	4080	U
78-59-1	Isophorone	ND	813	4080	U
88-75-5	2-Nitrophenol	ND	813	4080	U
105-67-9	2,4-Dimethylphenol	ND	813	4080	U
65-85-0	Benzoic acid	ND	2030	8130	U
111-91-1	bis(2-chloroethoxy)methane	ND	813	4080	U
120-83-2	2,4-Dichlorophenol	ND	813	4080	U
120-82-1	1,2,4-Trichlorobenzene	ND	813	4080	U
91-20-3	Naphthalene	16600	813	4080	D
106-47-8	4-Chloroaniline	ND	813	4080	U
87-68-3	Hexachlorobutadiene	ND	813	4080	U
59-50-7	4-Chloro-3-methylphenol	ND	813	4080	U
91-57-6	2-Methylnaphthylene	4970	813	4080	D

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06RE1
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4305.D
Prep Batch:	B6L0503	Sequence:	S6L0605	Analyzed:	12/06/16 21:11
Dilution:	20			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	813	4080	U
88-06-2	2,4,6-Trichlorophenol	ND	813	4080	U
95-95-4	2,4,5-Trichlorophenol	ND	813	4080	U
91-58-7	2-Chloronaphthalene	ND	813	4080	U
88-74-4	2-Nitroaniline	ND	813	4080	U
131-11-3	Dimethylphthalate	ND	813	4080	U
208-96-8	Acenaphthylene	ND	813	4080	U
99-09-2	3-Nitroaniline	ND	813	4080	U
83-32-9	Acenaphthene	7080	813	4080	D
51-28-5	2,4-Dinitrophenol	ND	813	8130	U
100-02-7	4-Nitrophenol	ND	813	4080	U
132-64-9	Dibenzofuran	7820	813	4080	D
606-20-2	2,6-Dinitrotoluene	ND	813	4080	U
121-14-2	2,4-Dinitrotoluene	ND	813	4080	U
84-66-2	Diethyl phthalate	ND	813	4080	U
7005-72-3	4-Chlorophenyl-phenylether	ND	813	4080	U
86-73-7	Fluorene	8970	813	4080	D
100-01-6	4-Nitroaniline	ND	813	4080	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	813	4080	U
86-30-6	N-Nitrosodiphenylamine	ND	813	4080	U
101-55-3	4-Bromophenyl-phenylether	ND	813	4080	U
118-74-1	Hexachlorobenzene	ND	813	4080	U
87-86-5	Pentachlorophenol	ND	813	4080	U
85-01-8	Phenanthrene	59100	813	4080	D
120-12-7	Anthracene	11600	813	4080	D
84-74-2	Di-n-butyl phthalate	ND	813	4080	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06RE1
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4305.D
Prep Batch:	B6L0503	Sequence:	S6L0605	Analyzed:	12/06/16 21:11
Dilution:	20			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	41900	813	4080	D
129-00-0	Pyrene	88800	813	4080	D
85-68-7	Butylbenzylphthalate	ND	813	4080	U
91-94-1	3,3'-Dichlorobenzidine	ND	2030	4080	U
56-55-3	Benzo[a]anthracene	19800	813	4080	D
117-81-7	bis(2-ethylhexyl)phthalate	ND	813	4080	U
218-01-9	Chrysene	18900	813	4080	D
117-84-0	Di-n-octyl phthalate	ND	813	4080	U
205-99-2	Benzo[b]fluoranthene	27500	813	4080	D
207-08-9	Benzo[k]fluoranthene	8260	813	4080	D
50-32-8	Benzo[a]pyrene	15700	813	4080	D
193-39-5	Indeno(1,2,3-cd)pyrene	4770	813	4080	D
53-70-3	Dibenzo(a,h)anthracene	ND	813	4080	U
191-24-2	Benzo[ghi]perylene	4660	813	4080	D

Surrogate	% Recovery		Recovery Limits
2-Fluorophenol	73%		30-130
Phenol-d5	82%		30-130
Nitrobenzene-d5	83%		30-130
2-Fluorobiphenyl	86%		30-130
2,4,6-Tribromophenol	78%		30-130
Terphenyl-d14	219%	*	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B GCMS	File ID:	B4281.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 14:25
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	38.2	192	U
108-95-2	Phenol	ND	38.2	192	U
111-44-4	bis(2-chloroethyl)ether	ND	38.2	192	U
95-57-8	2-Chlorophenol	ND	38.2	192	U
541-73-1	1,3-Dichlorobenzene	ND	38.2	192	U
106-46-7	1,4-Dichlorobenzene	ND	38.2	192	U
100-51-6	Benzyl alcohol	ND	38.2	192	U
95-50-1	1,2-Dichlorobenzene	ND	38.2	192	U
95-48-7	2-Methylphenol	ND	38.2	192	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	38.2	192	U
106-44-5	3 & 4-Methylphenol	ND	38.2	192	U
621-64-7	N-Nitroso-di-n-propylamine	ND	38.2	192	U
67-72-1	Hexachloroethane	ND	38.2	192	U
98-95-3	Nitrobenzene	ND	38.2	192	U
78-59-1	Isophorone	ND	38.2	192	U
88-75-5	2-Nitrophenol	ND	38.2	192	U
105-67-9	2,4-Dimethylphenol	ND	38.2	192	U
65-85-0	Benzoic acid	ND	95.3	382	U
111-91-1	bis(2-chloroethoxy)methane	ND	38.2	192	U
120-83-2	2,4-Dichlorophenol	ND	38.2	192	U
120-82-1	1,2,4-Trichlorobenzene	ND	38.2	192	U
91-20-3	Naphthalene	ND	38.2	192	U
106-47-8	4-Chloroaniline	ND	38.2	192	U
87-68-3	Hexachlorobutadiene	ND	38.2	192	U
59-50-7	4-Chloro-3-methylphenol	ND	38.2	192	U
91-57-6	2-Methylnaphthylene	ND	38.2	192	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B GCMS	File ID:	B4281.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 14:25
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	38.2	192	U
88-06-2	2,4,6-Trichlorophenol	ND	38.2	192	U
95-95-4	2,4,5-Trichlorophenol	ND	38.2	192	U
91-58-7	2-Chloronaphthalene	ND	38.2	192	U
88-74-4	2-Nitroaniline	ND	38.2	192	U
131-11-3	Dimethylphthalate	ND	38.2	192	U
208-96-8	Acenaphthylene	ND	38.2	192	U
99-09-2	3-Nitroaniline	ND	38.2	192	U
83-32-9	Acenaphthene	ND	38.2	192	U
51-28-5	2,4-Dinitrophenol	ND	38.2	382	U
100-02-7	4-Nitrophenol	ND	38.2	192	U
132-64-9	Dibenzofuran	ND	38.2	192	U
606-20-2	2,6-Dinitrotoluene	ND	38.2	192	U
121-14-2	2,4-Dinitrotoluene	ND	38.2	192	U
84-66-2	Diethyl phthalate	ND	38.2	192	U
7005-72-3	4-Chlorophenyl-phenylether	ND	38.2	192	U
86-73-7	Fluorene	ND	38.2	192	U
100-01-6	4-Nitroaniline	ND	38.2	192	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	38.2	192	U
86-30-6	N-Nitrosodiphenylamine	ND	38.2	192	U
101-55-3	4-Bromophenyl-phenylether	ND	38.2	192	U
118-74-1	Hexachlorobenzene	ND	38.2	192	U
87-86-5	Pentachlorophenol	ND	38.2	192	U
85-01-8	Phenanthrene	ND	38.2	192	U
120-12-7	Anthracene	ND	38.2	192	U
84-74-2	Di-n-butyl phthalate	ND	38.2	192	U

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ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B GCMS	File ID:	B4281.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 14:25
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	56.8	38.2	192	J
129-00-0	Pyrene	47.1	38.2	192	J
85-68-7	Butylbenzylphthalate	ND	38.2	192	U
91-94-1	3,3'-Dichlorobenzidine	ND	95.3	192	U
56-55-3	Benzo[a]anthracene	ND	38.2	192	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	38.2	192	U
218-01-9	Chrysene	ND	38.2	192	U
117-84-0	Di-n-octyl phthalate	ND	38.2	192	U
205-99-2	Benzo[b]fluoranthene	ND	38.2	192	U
207-08-9	Benzo[k]fluoranthene	ND	38.2	192	U
50-32-8	Benzo[a]pyrene	ND	38.2	192	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38.2	192	U
53-70-3	Dibenzo(a,h)anthracene	ND	38.2	192	U
191-24-2	Benzo[ghi]perylene	ND	38.2	192	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	52%	30-130
Phenol-d5	56%	30-130
Nitrobenzene-d5	60%	30-130
2-Fluorobiphenyl	58%	30-130
2,4,6-Tribromophenol	67%	30-130
Terphenyl-d14	64%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B GCMS	File ID:	B4282.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:10
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	38.7	194	U
108-95-2	Phenol	ND	38.7	194	U
111-44-4	bis(2-chloroethyl)ether	ND	38.7	194	U
95-57-8	2-Chlorophenol	ND	38.7	194	U
541-73-1	1,3-Dichlorobenzene	ND	38.7	194	U
106-46-7	1,4-Dichlorobenzene	ND	38.7	194	U
100-51-6	Benzyl alcohol	ND	38.7	194	U
95-50-1	1,2-Dichlorobenzene	ND	38.7	194	U
95-48-7	2-Methylphenol	ND	38.7	194	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	38.7	194	U
106-44-5	3 & 4-Methylphenol	ND	38.7	194	U
621-64-7	N-Nitroso-di-n-propylamine	ND	38.7	194	U
67-72-1	Hexachloroethane	ND	38.7	194	U
98-95-3	Nitrobenzene	ND	38.7	194	U
78-59-1	Isophorone	ND	38.7	194	U
88-75-5	2-Nitrophenol	ND	38.7	194	U
105-67-9	2,4-Dimethylphenol	ND	38.7	194	U
65-85-0	Benzoic acid	ND	96.4	387	U
111-91-1	bis(2-chloroethoxy)methane	ND	38.7	194	U
120-83-2	2,4-Dichlorophenol	ND	38.7	194	U
120-82-1	1,2,4-Trichlorobenzene	ND	38.7	194	U
91-20-3	Naphthalene	ND	38.7	194	U
106-47-8	4-Chloroaniline	ND	38.7	194	U
87-68-3	Hexachlorobutadiene	ND	38.7	194	U
59-50-7	4-Chloro-3-methylphenol	ND	38.7	194	U
91-57-6	2-Methylnaphthylene	ND	38.7	194	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B GCMS	File ID:	B4282.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:10
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	38.7	194	U
88-06-2	2,4,6-Trichlorophenol	ND	38.7	194	U
95-95-4	2,4,5-Trichlorophenol	ND	38.7	194	U
91-58-7	2-Chloronaphthalene	ND	38.7	194	U
88-74-4	2-Nitroaniline	ND	38.7	194	U
131-11-3	Dimethylphthalate	ND	38.7	194	U
208-96-8	Acenaphthylene	ND	38.7	194	U
99-09-2	3-Nitroaniline	ND	38.7	194	U
83-32-9	Acenaphthene	ND	38.7	194	U
51-28-5	2,4-Dinitrophenol	ND	38.7	387	U
100-02-7	4-Nitrophenol	ND	38.7	194	U
132-64-9	Dibenzofuran	ND	38.7	194	U
606-20-2	2,6-Dinitrotoluene	ND	38.7	194	U
121-14-2	2,4-Dinitrotoluene	ND	38.7	194	U
84-66-2	Diethyl phthalate	ND	38.7	194	U
7005-72-3	4-Chlorophenyl-phenylether	ND	38.7	194	U
86-73-7	Fluorene	ND	38.7	194	U
100-01-6	4-Nitroaniline	ND	38.7	194	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	38.7	194	U
86-30-6	N-Nitrosodiphenylamine	ND	38.7	194	U
101-55-3	4-Bromophenyl-phenylether	ND	38.7	194	U
118-74-1	Hexachlorobenzene	ND	38.7	194	U
87-86-5	Pentachlorophenol	ND	38.7	194	U
85-01-8	Phenanthrene	96.4	38.7	194	J
120-12-7	Anthracene	ND	38.7	194	U
84-74-2	Di-n-butyl phthalate	ND	38.7	194	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B GCMS	File ID:	B4282.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:10
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	143	38.7	194	J
129-00-0	Pyrene	113	38.7	194	J
85-68-7	Butylbenzylphthalate	ND	38.7	194	U
91-94-1	3,3'-Dichlorobenzidine	ND	96.4	194	U
56-55-3	Benzo[a]anthracene	58.3	38.7	194	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	38.7	194	U
218-01-9	Chrysene	61.9	38.7	194	J
117-84-0	Di-n-octyl phthalate	ND	38.7	194	U
205-99-2	Benzo[b]fluoranthene	63.3	38.7	194	J
207-08-9	Benzo[k]fluoranthene	ND	38.7	194	U
50-32-8	Benzo[a]pyrene	53.5	38.7	194	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38.7	194	U
53-70-3	Dibenzo(a,h)anthracene	ND	38.7	194	U
191-24-2	Benzo[ghi]perylene	ND	38.7	194	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	51%	30-130
Phenol-d5	55%	30-130
Nitrobenzene-d5	59%	30-130
2-Fluorobiphenyl	58%	30-130
2,4,6-Tribromophenol	69%	30-130
Terphenyl-d14	64%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

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VOLATILES SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/06/16 13:28	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10500.D
Prep Batch:	B6L0614	Sequence:	S6L0607	Analyzed:	12/06/16 13:28
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.20	12.0	U
107-13-1	Acrylonitrile	ND	2.40	12.0	U
67-64-1	Acetone	7.17	1.20	2.40	
75-71-8	Dichlorodifluoromethane	ND	1.20	2.40	U
74-87-3	Chloromethane	ND	1.20	2.40	U
75-01-4	Vinyl chloride	ND	1.20	2.40	U
74-83-9	Bromomethane	ND	1.20	2.40	U
75-00-3	Chloroethane	ND	1.20	2.40	U
75-69-4	Trichlorofluoromethane	ND	1.20	2.40	U
75-35-4	1,1-Dichloroethene	ND	1.20	2.40	U
75-15-0	Carbon disulfide	ND	1.20	2.40	U
75-09-2	Methylene Chloride	ND	1.20	2.40	U
156-60-5	trans-1,2-Dichloroethene	ND	1.20	2.40	U
75-34-3	1,1-Dichloroethane	ND	1.20	2.40	U
108-05-4	Vinyl acetate	ND	1.20	2.40	U
590-20-7	2,2-Dichloropropane	ND	1.20	2.40	U
78-93-3	2-Butanone	ND	1.20	2.40	U
156-59-4	cis-1,2-Dichloroethene	ND	1.20	2.40	U
67-66-3	Chloroform	ND	1.20	2.40	U
74-97-5	Bromochloromethane	ND	1.20	2.40	U
71-55-6	1,1,1-Trichloroethane	ND	1.20	2.40	U
563-58-6	1,1-Dichloropropene	ND	1.20	2.40	U
56-23-5	Carbon Tetrachloride	ND	1.20	2.40	U
107-06-2	1,2-Dichloroethane	ND	1.20	2.40	U
71-43-2	Benzene	ND	1.20	2.40	U
79-01-6	Trichloroethene	ND	1.20	2.40	U

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ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/06/16 13:28	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10500.D
Prep Batch:	B6L0614	Sequence:	S6L0607	Analyzed:	12/06/16 13:28
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.20	2.40	U
75-27-4	Bromodichloromethane	ND	1.20	2.40	U
74-95-3	Dibromomethane	ND	1.20	2.40	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.20	2.40	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.20	2.40	U
108-88-3	Toluene	ND	1.20	2.40	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.20	2.40	U
79-00-5	1,1,2-Trichloroethane	ND	1.20	2.40	U
108-10-1	4-Methyl-2-pentanone	ND	1.20	2.40	U
106-93-4	1,2-Dibromoethane	ND	1.20	2.40	U
591-78-6	2-Hexanone	ND	1.20	2.40	U
142-28-9	1,3-Dichloropropane	ND	1.20	2.40	U
127-18-4	Tetrachloroethene	ND	1.20	2.40	U
124-48-1	Dibromochloromethane	ND	1.20	2.40	U
100-41-4	Ethylbenzene	ND	1.20	2.40	U
108-90-7	Chlorobenzene	ND	1.20	2.40	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.20	2.40	U
108-38-3/106-42	m,p-Xylenes	ND	2.40	4.80	U
95-47-6	o-Xylene	ND	2.40	4.80	U
100-42-5	Styrene	ND	1.20	4.80	U
75-25-2	Bromoform	ND	1.20	2.40	U
98-82-8	Isopropylbenzene	ND	1.20	2.40	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.20	2.40	U
96-18-4	1,2,3-Trichloropropane	ND	1.20	2.40	U
103-65-1	n-Propyl Benzene	ND	1.20	2.40	U
108-86-1	Bromobenzene	ND	1.20	2.40	U

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ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/06/16 13:28	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10500.D
Prep Batch:	B6L0614	Sequence:	S6L0607	Analyzed:	12/06/16 13:28
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.20	2.40	U
95-49-8	2-Chlorotoluene	ND	1.20	2.40	U
106-43-4	4-Chlorotoluene	ND	1.20	2.40	U
98-06-6	tert-Butylbenzene	ND	1.20	2.40	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.20	2.40	U
135-98-8	sec-Butylbenzene	ND	1.20	2.40	U
99-87-6	p-Isopropyltoluene	ND	1.20	2.40	U
541-73-1	1,3-Dichlorobenzene	ND	1.20	2.40	U
106-46-7	1,4-Dichlorobenzene	ND	1.20	2.40	U
104-51-8	n-Butyl Benzene	ND	1.20	2.40	U
95-50-1	1,2-Dichlorobenzene	ND	1.20	2.40	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.20	2.40	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.20	2.40	U
87-68-3	Hexachlorobutadiene	ND	1.20	2.40	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.20	2.40	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	110%	70-130
Toluene-d8	100%	70-130
Bromofluorobenzene	94%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 18:37	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 5035A	File ID:	A10481.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 18:37
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.05	11.7	U
107-13-1	Acrylonitrile	ND	2.35	11.7	U
67-64-1	Acetone	ND	1.17	2.35	U
75-71-8	Dichlorodifluoromethane	ND	1.17	2.35	U
74-87-3	Chloromethane	ND	1.17	2.35	U
75-01-4	Vinyl chloride	ND	1.17	2.35	U
74-83-9	Bromomethane	ND	1.17	2.35	U
75-00-3	Chloroethane	ND	1.17	2.35	U
75-69-4	Trichlorofluoromethane	ND	1.17	2.35	U
75-35-4	1,1-Dichloroethene	ND	1.17	2.35	U
75-15-0	Carbon disulfide	ND	1.17	2.35	U
75-09-2	Methylene Chloride	ND	1.17	2.35	U
156-60-5	trans-1,2-Dichloroethene	ND	1.17	2.35	U
75-34-3	1,1-Dichloroethane	ND	1.17	2.35	U
108-05-4	Vinyl acetate	ND	1.17	2.35	U
590-20-7	2,2-Dichloropropane	ND	1.17	2.35	U
78-93-3	2-Butanone	ND	1.17	2.35	U
156-59-4	cis-1,2-Dichloroethene	ND	1.17	2.35	U
67-66-3	Chloroform	ND	1.17	2.35	U
74-97-5	Bromochloromethane	ND	1.17	2.35	U
71-55-6	1,1,1-Trichloroethane	ND	1.17	2.35	U
563-58-6	1,1-Dichloropropene	ND	1.17	2.35	U
56-23-5	Carbon Tetrachloride	ND	1.17	2.35	U
107-06-2	1,2-Dichloroethane	ND	1.17	2.35	U
71-43-2	Benzene	ND	1.17	2.35	U
79-01-6	Trichloroethene	ND	1.17	2.35	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 18:37	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 5035A	File ID:	A10481.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 18:37
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.17	2.35	U
75-27-4	Bromodichloromethane	ND	1.17	2.35	U
74-95-3	Dibromomethane	ND	1.17	2.35	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.17	2.35	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.17	2.35	U
108-88-3	Toluene	ND	1.17	2.35	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.17	2.35	U
79-00-5	1,1,2-Trichloroethane	ND	1.17	2.35	U
108-10-1	4-Methyl-2-pentanone	ND	1.17	2.35	U
106-93-4	1,2-Dibromoethane	ND	1.17	2.35	U
591-78-6	2-Hexanone	ND	1.17	2.35	U
142-28-9	1,3-Dichloropropane	ND	1.17	2.35	U
127-18-4	Tetrachloroethene	ND	1.17	2.35	U
124-48-1	Dibromochloromethane	ND	1.17	2.35	U
100-41-4	Ethylbenzene	ND	1.17	2.35	U
108-90-7	Chlorobenzene	ND	1.17	2.35	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.17	2.35	U
108-38-3/106-42	m,p-Xylenes	ND	2.35	4.70	U
95-47-6	o-Xylene	ND	2.35	4.70	U
100-42-5	Styrene	ND	1.17	4.70	U
75-25-2	Bromoform	ND	1.17	2.35	U
98-82-8	Isopropylbenzene	ND	1.17	2.35	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.17	2.35	U
96-18-4	1,2,3-Trichloropropane	ND	1.17	2.35	U
103-65-1	n-Propyl Benzene	ND	1.17	2.35	U
108-86-1	Bromobenzene	ND	1.17	2.35	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 18:37	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 5035A	File ID:	A10481.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 18:37
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.17	2.35	U
95-49-8	2-Chlorotoluene	ND	1.17	2.35	U
106-43-4	4-Chlorotoluene	ND	1.17	2.35	U
98-06-6	tert-Butylbenzene	ND	1.17	2.35	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.17	2.35	U
135-98-8	sec-Butylbenzene	ND	1.17	2.35	U
99-87-6	p-Isopropyltoluene	ND	1.17	2.35	U
541-73-1	1,3-Dichlorobenzene	ND	1.17	2.35	U
106-46-7	1,4-Dichlorobenzene	ND	1.17	2.35	U
104-51-8	n-Butyl Benzene	ND	1.17	2.35	U
95-50-1	1,2-Dichlorobenzene	ND	1.17	2.35	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.17	2.35	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.17	2.35	U
87-68-3	Hexachlorobutadiene	ND	1.17	2.35	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.17	2.35	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	111%	70-130
Toluene-d8	86%	70-130
Bromofluorobenzene	75%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 19:09	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10482.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:09
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.54	12.6	U
107-13-1	Acrylonitrile	ND	2.51	12.6	U
67-64-1	Acetone	ND	1.26	2.51	U
75-71-8	Dichlorodifluoromethane	ND	1.26	2.51	U
74-87-3	Chloromethane	ND	1.26	2.51	U
75-01-4	Vinyl chloride	ND	1.26	2.51	U
74-83-9	Bromomethane	ND	1.26	2.51	U
75-00-3	Chloroethane	ND	1.26	2.51	U
75-69-4	Trichlorofluoromethane	ND	1.26	2.51	U
75-35-4	1,1-Dichloroethene	ND	1.26	2.51	U
75-15-0	Carbon disulfide	ND	1.26	2.51	U
75-09-2	Methylene Chloride	ND	1.26	2.51	U
156-60-5	trans-1,2-Dichloroethene	ND	1.26	2.51	U
75-34-3	1,1-Dichloroethane	ND	1.26	2.51	U
108-05-4	Vinyl acetate	ND	1.26	2.51	U
590-20-7	2,2-Dichloropropane	ND	1.26	2.51	U
78-93-3	2-Butanone	ND	1.26	2.51	U
156-59-4	cis-1,2-Dichloroethene	ND	1.26	2.51	U
67-66-3	Chloroform	ND	1.26	2.51	U
74-97-5	Bromochloromethane	ND	1.26	2.51	U
71-55-6	1,1,1-Trichloroethane	ND	1.26	2.51	U
563-58-6	1,1-Dichloropropene	ND	1.26	2.51	U
56-23-5	Carbon Tetrachloride	ND	1.26	2.51	U
107-06-2	1,2-Dichloroethane	ND	1.26	2.51	U
71-43-2	Benzene	ND	1.26	2.51	U
79-01-6	Trichloroethene	ND	1.26	2.51	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 19:09	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10482.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:09
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.26	2.51	U
75-27-4	Bromodichloromethane	ND	1.26	2.51	U
74-95-3	Dibromomethane	ND	1.26	2.51	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.26	2.51	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.26	2.51	U
108-88-3	Toluene	ND	1.26	2.51	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.26	2.51	U
79-00-5	1,1,2-Trichloroethane	ND	1.26	2.51	U
108-10-1	4-Methyl-2-pentanone	ND	1.26	2.51	U
106-93-4	1,2-Dibromoethane	ND	1.26	2.51	U
591-78-6	2-Hexanone	ND	1.26	2.51	U
142-28-9	1,3-Dichloropropane	ND	1.26	2.51	U
127-18-4	Tetrachloroethene	ND	1.26	2.51	U
124-48-1	Dibromochloromethane	ND	1.26	2.51	U
100-41-4	Ethylbenzene	ND	1.26	2.51	U
108-90-7	Chlorobenzene	ND	1.26	2.51	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.26	2.51	U
108-38-3/106-42	m,p-Xylenes	ND	2.51	5.03	U
95-47-6	o-Xylene	ND	2.51	5.03	U
100-42-5	Styrene	ND	1.26	5.03	U
75-25-2	Bromoform	ND	1.26	2.51	U
98-82-8	Isopropylbenzene	ND	1.26	2.51	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.26	2.51	U
96-18-4	1,2,3-Trichloropropane	ND	1.26	2.51	U
103-65-1	n-Propyl Benzene	ND	1.26	2.51	U
108-86-1	Bromobenzene	ND	1.26	2.51	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 19:09	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10482.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:09
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.26	2.51	U
95-49-8	2-Chlorotoluene	ND	1.26	2.51	U
106-43-4	4-Chlorotoluene	ND	1.26	2.51	U
98-06-6	tert-Butylbenzene	ND	1.26	2.51	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.26	2.51	U
135-98-8	sec-Butylbenzene	ND	1.26	2.51	U
99-87-6	p-Isopropyltoluene	ND	1.26	2.51	U
541-73-1	1,3-Dichlorobenzene	ND	1.26	2.51	U
106-46-7	1,4-Dichlorobenzene	ND	1.26	2.51	U
104-51-8	n-Butyl Benzene	ND	1.26	2.51	U
95-50-1	1,2-Dichlorobenzene	ND	1.26	2.51	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.26	2.51	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.26	2.51	U
87-68-3	Hexachlorobutadiene	ND	1.26	2.51	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.26	2.51	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	115%	70-130
Toluene-d8	91%	70-130
Bromofluorobenzene	78%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 19:40	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 5035A	File ID:	A10483.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:40
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.10	11.8	U
107-13-1	Acrylonitrile	ND	2.37	11.8	U
67-64-1	Acetone	ND	1.18	2.37	U
75-71-8	Dichlorodifluoromethane	ND	1.18	2.37	U
74-87-3	Chloromethane	ND	1.18	2.37	U
75-01-4	Vinyl chloride	ND	1.18	2.37	U
74-83-9	Bromomethane	ND	1.18	2.37	U
75-00-3	Chloroethane	ND	1.18	2.37	U
75-69-4	Trichlorofluoromethane	ND	1.18	2.37	U
75-35-4	1,1-Dichloroethene	ND	1.18	2.37	U
75-15-0	Carbon disulfide	ND	1.18	2.37	U
75-09-2	Methylene Chloride	ND	1.18	2.37	U
156-60-5	trans-1,2-Dichloroethene	ND	1.18	2.37	U
75-34-3	1,1-Dichloroethane	ND	1.18	2.37	U
108-05-4	Vinyl acetate	ND	1.18	2.37	U
590-20-7	2,2-Dichloropropane	ND	1.18	2.37	U
78-93-3	2-Butanone	ND	1.18	2.37	U
156-59-4	cis-1,2-Dichloroethene	ND	1.18	2.37	U
67-66-3	Chloroform	ND	1.18	2.37	U
74-97-5	Bromochloromethane	ND	1.18	2.37	U
71-55-6	1,1,1-Trichloroethane	ND	1.18	2.37	U
563-58-6	1,1-Dichloropropene	ND	1.18	2.37	U
56-23-5	Carbon Tetrachloride	ND	1.18	2.37	U
107-06-2	1,2-Dichloroethane	ND	1.18	2.37	U
71-43-2	Benzene	ND	1.18	2.37	U
79-01-6	Trichloroethene	ND	1.18	2.37	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 19:40	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 5035A	File ID:	A10483.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:40
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.18	2.37	U
75-27-4	Bromodichloromethane	ND	1.18	2.37	U
74-95-3	Dibromomethane	ND	1.18	2.37	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.18	2.37	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.18	2.37	U
108-88-3	Toluene	ND	1.18	2.37	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.18	2.37	U
79-00-5	1,1,2-Trichloroethane	ND	1.18	2.37	U
108-10-1	4-Methyl-2-pentanone	ND	1.18	2.37	U
106-93-4	1,2-Dibromoethane	ND	1.18	2.37	U
591-78-6	2-Hexanone	ND	1.18	2.37	U
142-28-9	1,3-Dichloropropane	ND	1.18	2.37	U
127-18-4	Tetrachloroethene	ND	1.18	2.37	U
124-48-1	Dibromochloromethane	ND	1.18	2.37	U
100-41-4	Ethylbenzene	ND	1.18	2.37	U
108-90-7	Chlorobenzene	ND	1.18	2.37	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.18	2.37	U
108-38-3/106-42	m,p-Xylenes	ND	2.37	4.73	U
95-47-6	o-Xylene	ND	2.37	4.73	U
100-42-5	Styrene	ND	1.18	4.73	U
75-25-2	Bromoform	ND	1.18	2.37	U
98-82-8	Isopropylbenzene	ND	1.18	2.37	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.18	2.37	U
96-18-4	1,2,3-Trichloropropane	ND	1.18	2.37	U
103-65-1	n-Propyl Benzene	ND	1.18	2.37	U
108-86-1	Bromobenzene	ND	1.18	2.37	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 19:40	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 5035A	File ID:	A10483.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:40
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.18	2.37	U
95-49-8	2-Chlorotoluene	ND	1.18	2.37	U
106-43-4	4-Chlorotoluene	ND	1.18	2.37	U
98-06-6	tert-Butylbenzene	ND	1.18	2.37	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.18	2.37	U
135-98-8	sec-Butylbenzene	ND	1.18	2.37	U
99-87-6	p-Isopropyltoluene	ND	1.18	2.37	U
541-73-1	1,3-Dichlorobenzene	ND	1.18	2.37	U
106-46-7	1,4-Dichlorobenzene	ND	1.18	2.37	U
104-51-8	n-Butyl Benzene	ND	1.18	2.37	U
95-50-1	1,2-Dichlorobenzene	ND	1.18	2.37	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.18	2.37	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.18	2.37	U
87-68-3	Hexachlorobutadiene	ND	1.18	2.37	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.18	2.37	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	110%	70-130
Toluene-d8	82%	70-130
Bromofluorobenzene	73%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 20:11	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 5035A	File ID:	A10484.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 20:11
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	5.56	9.27	U
107-13-1	Acrylonitrile	ND	1.85	9.27	U
67-64-1	Acetone	1.85	0.927	1.85	
75-71-8	Dichlorodifluoromethane	ND	0.927	1.85	U
74-87-3	Chloromethane	ND	0.927	1.85	U
75-01-4	Vinyl chloride	ND	0.927	1.85	U
74-83-9	Bromomethane	ND	0.927	1.85	U
75-00-3	Chloroethane	ND	0.927	1.85	U
75-69-4	Trichlorofluoromethane	ND	0.927	1.85	U
75-35-4	1,1-Dichloroethene	ND	0.927	1.85	U
75-15-0	Carbon disulfide	ND	0.927	1.85	U
75-09-2	Methylene Chloride	ND	0.927	1.85	U
156-60-5	trans-1,2-Dichloroethene	ND	0.927	1.85	U
75-34-3	1,1-Dichloroethane	ND	0.927	1.85	U
108-05-4	Vinyl acetate	ND	0.927	1.85	U
590-20-7	2,2-Dichloropropane	ND	0.927	1.85	U
78-93-3	2-Butanone	ND	0.927	1.85	U
156-59-4	cis-1,2-Dichloroethene	ND	0.927	1.85	U
67-66-3	Chloroform	ND	0.927	1.85	U
74-97-5	Bromochloromethane	ND	0.927	1.85	U
71-55-6	1,1,1-Trichloroethane	ND	0.927	1.85	U
563-58-6	1,1-Dichloropropene	ND	0.927	1.85	U
56-23-5	Carbon Tetrachloride	ND	0.927	1.85	U
107-06-2	1,2-Dichloroethane	ND	0.927	1.85	U
71-43-2	Benzene	ND	0.927	1.85	U
79-01-6	Trichloroethene	ND	0.927	1.85	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 20:11	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 5035A	File ID:	A10484.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 20:11
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	0.927	1.85	U
75-27-4	Bromodichloromethane	ND	0.927	1.85	U
74-95-3	Dibromomethane	ND	0.927	1.85	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.927	1.85	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.927	1.85	U
108-88-3	Toluene	ND	0.927	1.85	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.927	1.85	U
79-00-5	1,1,2-Trichloroethane	ND	0.927	1.85	U
108-10-1	4-Methyl-2-pentanone	ND	0.927	1.85	U
106-93-4	1,2-Dibromoethane	ND	0.927	1.85	U
591-78-6	2-Hexanone	ND	0.927	1.85	U
142-28-9	1,3-Dichloropropane	ND	0.927	1.85	U
127-18-4	Tetrachloroethene	ND	0.927	1.85	U
124-48-1	Dibromochloromethane	ND	0.927	1.85	U
100-41-4	Ethylbenzene	ND	0.927	1.85	U
108-90-7	Chlorobenzene	ND	0.927	1.85	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.927	1.85	U
108-38-3/106-42	m,p-Xylenes	ND	1.85	3.71	U
95-47-6	o-Xylene	ND	1.85	3.71	U
100-42-5	Styrene	ND	0.927	3.71	U
75-25-2	Bromoform	ND	0.927	1.85	U
98-82-8	Isopropylbenzene	ND	0.927	1.85	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.927	1.85	U
96-18-4	1,2,3-Trichloropropane	ND	0.927	1.85	U
103-65-1	n-Propyl Benzene	ND	0.927	1.85	U
108-86-1	Bromobenzene	ND	0.927	1.85	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 20:11	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 5035A	File ID:	A10484.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 20:11
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	0.927	1.85	U
95-49-8	2-Chlorotoluene	ND	0.927	1.85	U
106-43-4	4-Chlorotoluene	ND	0.927	1.85	U
98-06-6	tert-Butylbenzene	ND	0.927	1.85	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.927	1.85	U
135-98-8	sec-Butylbenzene	ND	0.927	1.85	U
99-87-6	p-Isopropyltoluene	ND	0.927	1.85	U
541-73-1	1,3-Dichlorobenzene	ND	0.927	1.85	U
106-46-7	1,4-Dichlorobenzene	ND	0.927	1.85	U
104-51-8	n-Butyl Benzene	ND	0.927	1.85	U
95-50-1	1,2-Dichlorobenzene	ND	0.927	1.85	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.927	1.85	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.927	1.85	U
87-68-3	Hexachlorobutadiene	ND	0.927	1.85	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.927	1.85	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	101%	70-130
Toluene-d8	100%	70-130
Bromofluorobenzene	91%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/07/16 13:17	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 5035A	File ID:	A10522.D
Prep Batch:	B6L0715	Sequence:	S6L0708	Analyzed:	12/07/16 13:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	6.72	11.2	U
107-13-1	Acrylonitrile	ND	2.24	11.2	U
67-64-1	Acetone	ND	1.12	2.24	U
75-71-8	Dichlorodifluoromethane	ND	1.12	2.24	U
74-87-3	Chloromethane	ND	1.12	2.24	U
75-01-4	Vinyl chloride	ND	1.12	2.24	U
74-83-9	Bromomethane	ND	1.12	2.24	U
75-00-3	Chloroethane	ND	1.12	2.24	U
75-69-4	Trichlorofluoromethane	ND	1.12	2.24	U
75-35-4	1,1-Dichloroethene	ND	1.12	2.24	U
75-15-0	Carbon disulfide	ND	1.12	2.24	U
75-09-2	Methylene Chloride	ND	1.12	2.24	U
156-60-5	trans-1,2-Dichloroethene	ND	1.12	2.24	U
75-34-3	1,1-Dichloroethane	ND	1.12	2.24	U
108-05-4	Vinyl acetate	ND	1.12	2.24	U
590-20-7	2,2-Dichloropropane	ND	1.12	2.24	U
78-93-3	2-Butanone	ND	1.12	2.24	U
156-59-4	cis-1,2-Dichloroethene	ND	1.12	2.24	U
67-66-3	Chloroform	ND	1.12	2.24	U
74-97-5	Bromochloromethane	ND	1.12	2.24	U
71-55-6	1,1,1-Trichloroethane	ND	1.12	2.24	U
563-58-6	1,1-Dichloropropene	ND	1.12	2.24	U
56-23-5	Carbon Tetrachloride	ND	1.12	2.24	U
107-06-2	1,2-Dichloroethane	ND	1.12	2.24	U
71-43-2	Benzene	ND	1.12	2.24	U
79-01-6	Trichloroethene	ND	1.12	2.24	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/07/16 13:17	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 5035A	File ID:	A10522.D
Prep Batch:	B6L0715	Sequence:	S6L0708	Analyzed:	12/07/16 13:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.12	2.24	U
75-27-4	Bromodichloromethane	ND	1.12	2.24	U
74-95-3	Dibromomethane	ND	1.12	2.24	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.12	2.24	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.12	2.24	U
108-88-3	Toluene	ND	1.12	2.24	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.12	2.24	U
79-00-5	1,1,2-Trichloroethane	ND	1.12	2.24	U
108-10-1	4-Methyl-2-pentanone	ND	1.12	2.24	U
106-93-4	1,2-Dibromoethane	ND	1.12	2.24	U
591-78-6	2-Hexanone	ND	1.12	2.24	U
142-28-9	1,3-Dichloropropane	ND	1.12	2.24	U
127-18-4	Tetrachloroethene	ND	1.12	2.24	U
124-48-1	Dibromochloromethane	ND	1.12	2.24	U
100-41-4	Ethylbenzene	ND	1.12	2.24	U
108-90-7	Chlorobenzene	ND	1.12	2.24	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.12	2.24	U
108-38-3/106-42	m,p-Xylenes	ND	2.24	4.48	U
95-47-6	o-Xylene	ND	2.24	4.48	U
100-42-5	Styrene	ND	1.12	4.48	U
75-25-2	Bromoform	ND	1.12	2.24	U
98-82-8	Isopropylbenzene	ND	1.12	2.24	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.12	2.24	U
96-18-4	1,2,3-Trichloropropane	ND	1.12	2.24	U
103-65-1	n-Propyl Benzene	ND	1.12	2.24	U
108-86-1	Bromobenzene	ND	1.12	2.24	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/07/16 13:17	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 5035A	File ID:	A10522.D
Prep Batch:	B6L0715	Sequence:	S6L0708	Analyzed:	12/07/16 13:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.12	2.24	U
95-49-8	2-Chlorotoluene	ND	1.12	2.24	U
106-43-4	4-Chlorotoluene	ND	1.12	2.24	U
98-06-6	tert-Butylbenzene	ND	1.12	2.24	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.12	2.24	U
135-98-8	sec-Butylbenzene	ND	1.12	2.24	U
99-87-6	p-Isopropyltoluene	ND	1.12	2.24	U
541-73-1	1,3-Dichlorobenzene	ND	1.12	2.24	U
106-46-7	1,4-Dichlorobenzene	ND	1.12	2.24	U
104-51-8	n-Butyl Benzene	ND	1.12	2.24	U
95-50-1	1,2-Dichlorobenzene	ND	1.12	2.24	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.12	2.24	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.12	2.24	U
87-68-3	Hexachlorobutadiene	ND	1.12	2.24	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.12	2.24	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	120%	70-130
Toluene-d8	99%	70-130
Bromofluorobenzene	87%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 21:14	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 5035A	File ID:	A10486.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:14
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	5.60	9.33	U
107-13-1	Acrylonitrile	ND	1.87	9.33	U
67-64-1	Acetone	6.59	0.933	1.87	
75-71-8	Dichlorodifluoromethane	ND	0.933	1.87	U
74-87-3	Chloromethane	ND	0.933	1.87	U
75-01-4	Vinyl chloride	ND	0.933	1.87	U
74-83-9	Bromomethane	ND	0.933	1.87	U
75-00-3	Chloroethane	ND	0.933	1.87	U
75-69-4	Trichlorofluoromethane	ND	0.933	1.87	U
75-35-4	1,1-Dichloroethene	ND	0.933	1.87	U
75-15-0	Carbon disulfide	ND	0.933	1.87	U
75-09-2	Methylene Chloride	ND	0.933	1.87	U
156-60-5	trans-1,2-Dichloroethene	ND	0.933	1.87	U
75-34-3	1,1-Dichloroethane	ND	0.933	1.87	U
108-05-4	Vinyl acetate	ND	0.933	1.87	U
590-20-7	2,2-Dichloropropane	ND	0.933	1.87	U
78-93-3	2-Butanone	ND	0.933	1.87	U
156-59-4	cis-1,2-Dichloroethene	ND	0.933	1.87	U
67-66-3	Chloroform	ND	0.933	1.87	U
74-97-5	Bromochloromethane	ND	0.933	1.87	U
71-55-6	1,1,1-Trichloroethane	ND	0.933	1.87	U
563-58-6	1,1-Dichloropropene	ND	0.933	1.87	U
56-23-5	Carbon Tetrachloride	ND	0.933	1.87	U
107-06-2	1,2-Dichloroethane	ND	0.933	1.87	U
71-43-2	Benzene	ND	0.933	1.87	U
79-01-6	Trichloroethene	ND	0.933	1.87	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 21:14	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 5035A	File ID:	A10486.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:14
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	0.933	1.87	U
75-27-4	Bromodichloromethane	ND	0.933	1.87	U
74-95-3	Dibromomethane	ND	0.933	1.87	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.933	1.87	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.933	1.87	U
108-88-3	Toluene	ND	0.933	1.87	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.933	1.87	U
79-00-5	1,1,2-Trichloroethane	ND	0.933	1.87	U
108-10-1	4-Methyl-2-pentanone	ND	0.933	1.87	U
106-93-4	1,2-Dibromoethane	ND	0.933	1.87	U
591-78-6	2-Hexanone	ND	0.933	1.87	U
142-28-9	1,3-Dichloropropane	ND	0.933	1.87	U
127-18-4	Tetrachloroethene	ND	0.933	1.87	U
124-48-1	Dibromochloromethane	ND	0.933	1.87	U
100-41-4	Ethylbenzene	ND	0.933	1.87	U
108-90-7	Chlorobenzene	ND	0.933	1.87	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.933	1.87	U
108-38-3/106-42	m,p-Xylenes	ND	1.87	3.73	U
95-47-6	o-Xylene	ND	1.87	3.73	U
100-42-5	Styrene	ND	0.933	3.73	U
75-25-2	Bromoform	ND	0.933	1.87	U
98-82-8	Isopropylbenzene	ND	0.933	1.87	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.933	1.87	U
96-18-4	1,2,3-Trichloropropane	ND	0.933	1.87	U
103-65-1	n-Propyl Benzene	ND	0.933	1.87	U
108-86-1	Bromobenzene	ND	0.933	1.87	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 21:14	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 5035A	File ID:	A10486.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:14
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	0.933	1.87	U
95-49-8	2-Chlorotoluene	ND	0.933	1.87	U
106-43-4	4-Chlorotoluene	ND	0.933	1.87	U
98-06-6	tert-Butylbenzene	ND	0.933	1.87	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.933	1.87	U
135-98-8	sec-Butylbenzene	ND	0.933	1.87	U
99-87-6	p-Isopropyltoluene	ND	0.933	1.87	U
541-73-1	1,3-Dichlorobenzene	ND	0.933	1.87	U
106-46-7	1,4-Dichlorobenzene	ND	0.933	1.87	U
104-51-8	n-Butyl Benzene	ND	0.933	1.87	U
95-50-1	1,2-Dichlorobenzene	ND	0.933	1.87	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.933	1.87	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.933	1.87	U
87-68-3	Hexachlorobutadiene	ND	0.933	1.87	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.933	1.87	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	107%	70-130
Toluene-d8	100%	70-130
Bromofluorobenzene	91%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 21:46	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 5035A	File ID:	A10487.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	5.56	9.26	U
107-13-1	Acrylonitrile	ND	1.85	9.26	U
67-64-1	Acetone	18.2	0.926	1.85	
75-71-8	Dichlorodifluoromethane	ND	0.926	1.85	U
74-87-3	Chloromethane	ND	0.926	1.85	U
75-01-4	Vinyl chloride	ND	0.926	1.85	U
74-83-9	Bromomethane	ND	0.926	1.85	U
75-00-3	Chloroethane	ND	0.926	1.85	U
75-69-4	Trichlorofluoromethane	ND	0.926	1.85	U
75-35-4	1,1-Dichloroethene	ND	0.926	1.85	U
75-15-0	Carbon disulfide	ND	0.926	1.85	U
75-09-2	Methylene Chloride	ND	0.926	1.85	U
156-60-5	trans-1,2-Dichloroethene	ND	0.926	1.85	U
75-34-3	1,1-Dichloroethane	ND	0.926	1.85	U
108-05-4	Vinyl acetate	ND	0.926	1.85	U
590-20-7	2,2-Dichloropropane	ND	0.926	1.85	U
78-93-3	2-Butanone	5.22	0.926	1.85	
156-59-4	cis-1,2-Dichloroethene	ND	0.926	1.85	U
67-66-3	Chloroform	ND	0.926	1.85	U
74-97-5	Bromochloromethane	ND	0.926	1.85	U
71-55-6	1,1,1-Trichloroethane	ND	0.926	1.85	U
563-58-6	1,1-Dichloropropene	ND	0.926	1.85	U
56-23-5	Carbon Tetrachloride	ND	0.926	1.85	U
107-06-2	1,2-Dichloroethane	ND	0.926	1.85	U
71-43-2	Benzene	ND	0.926	1.85	U
79-01-6	Trichloroethene	ND	0.926	1.85	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 21:46	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 5035A	File ID:	A10487.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	0.926	1.85	U
75-27-4	Bromodichloromethane	ND	0.926	1.85	U
74-95-3	Dibromomethane	ND	0.926	1.85	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.926	1.85	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.926	1.85	U
108-88-3	Toluene	ND	0.926	1.85	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.926	1.85	U
79-00-5	1,1,2-Trichloroethane	ND	0.926	1.85	U
108-10-1	4-Methyl-2-pentanone	ND	0.926	1.85	U
106-93-4	1,2-Dibromoethane	ND	0.926	1.85	U
591-78-6	2-Hexanone	ND	0.926	1.85	U
142-28-9	1,3-Dichloropropane	ND	0.926	1.85	U
127-18-4	Tetrachloroethene	ND	0.926	1.85	U
124-48-1	Dibromochloromethane	ND	0.926	1.85	U
100-41-4	Ethylbenzene	ND	0.926	1.85	U
108-90-7	Chlorobenzene	ND	0.926	1.85	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.926	1.85	U
108-38-3/106-42	m,p-Xylenes	ND	1.85	3.70	U
95-47-6	o-Xylene	ND	1.85	3.70	U
100-42-5	Styrene	ND	0.926	3.70	U
75-25-2	Bromoform	ND	0.926	1.85	U
98-82-8	Isopropylbenzene	ND	0.926	1.85	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.926	1.85	U
96-18-4	1,2,3-Trichloropropane	ND	0.926	1.85	U
103-65-1	n-Propyl Benzene	ND	0.926	1.85	U
108-86-1	Bromobenzene	ND	0.926	1.85	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 21:46	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 5035A	File ID:	A10487.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	0.926	1.85	U
95-49-8	2-Chlorotoluene	ND	0.926	1.85	U
106-43-4	4-Chlorotoluene	ND	0.926	1.85	U
98-06-6	tert-Butylbenzene	ND	0.926	1.85	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.926	1.85	U
135-98-8	sec-Butylbenzene	ND	0.926	1.85	U
99-87-6	p-Isopropyltoluene	ND	0.926	1.85	U
541-73-1	1,3-Dichlorobenzene	ND	0.926	1.85	U
106-46-7	1,4-Dichlorobenzene	ND	0.926	1.85	U
104-51-8	n-Butyl Benzene	ND	0.926	1.85	U
95-50-1	1,2-Dichlorobenzene	ND	0.926	1.85	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.926	1.85	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.926	1.85	U
87-68-3	Hexachlorobutadiene	ND	0.926	1.85	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.926	1.85	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	107%	70-130
Toluene-d8	99%	70-130
Bromofluorobenzene	86%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

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METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Matrix:	Soil
Percent Solids:	79.40	File ID:	120616A-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	10600	18.1	18.1	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-97-6	Mercury	0.215	0.0945	0.0945	1		12/06/16 07:56	EPA 7471A	12/07/16 11:38 PRT	EPA 7471
7440-36-0	Antimony	ND	3.62	3.62	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-38-2	Arsenic	2.28	0.906	0.906	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-39-3	Barium	76.9	18.1	18.1	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-41-7	Beryllium	0.492	0.453	0.453	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-43-9	Cadmium	1.35	0.453	0.453	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-70-2	Calcium	13200	22.7	22.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-47-3	Chromium	21.0	1.81	1.81	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-48-4	Cobalt	9.53	4.53	4.53	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-50-8	Copper	46.1	2.72	2.72	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-89-6	Iron	24100	566	566	25	D	12/05/16 08:56	EPA 3050B	12/06/16 13:51 LIT	EPA 6010
7439-92-1	Lead	169	0.906	0.906	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-95-4	Magnesium	7500	45.3	45.3	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-96-5	Manganese	400	1.81	1.81	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-02-0	Nickel	18.3	3.62	3.62	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-09-7	Potassium	1540	45.3	45.3	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7782-49-2	Selenium	ND	3.62	3.62	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-22-4	Silver	ND	0.453	0.453	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-23-5	Sodium	275	45.3	45.3	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-28-0	Thallium	ND	1.36	2.72	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-62-2	Vanadium	30.6	4.53	4.53	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-66-6	Zinc	150	5.44	5.44	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Matrix:	Soil
Percent Solids:	76.70	File ID:	120616A-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	11100	25.5	25.5	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-97-6	Mercury	0.223	0.0978	0.0978	1		12/06/16 07:56	EPA 7471A	12/07/16 11:47 PRT	EPA 7471
7440-36-0	Antimony	ND	5.10	5.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-38-2	Arsenic	2.84	1.27	1.27	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-39-3	Barium	76.7	25.5	25.5	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.637	0.637	1	U	12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-43-9	Cadmium	1.27	0.637	0.637	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-70-2	Calcium	6920	31.9	31.9	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-47-3	Chromium	20.8	2.55	2.55	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-48-4	Cobalt	9.86	6.37	6.37	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-50-8	Copper	46.0	3.82	3.82	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-89-6	Iron	27100	797	797	25	D	12/05/16 08:56	EPA 3050B	12/06/16 13:56 LIT	EPA 6010
7439-92-1	Lead	134	1.27	1.27	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-95-4	Magnesium	5830	63.7	63.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-96-5	Manganese	411	2.55	2.55	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-02-0	Nickel	18.7	5.10	5.10	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-09-7	Potassium	1490	63.7	63.7	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7782-49-2	Selenium	ND	2.55	5.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-22-4	Silver	ND	0.637	0.637	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-23-5	Sodium	283	63.7	63.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-28-0	Thallium	ND	1.91	3.82	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-62-2	Vanadium	30.7	6.37	6.37	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-66-6	Zinc	151	7.65	7.65	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Matrix:	Soil
Percent Solids:	79.40	File ID:	120616A-023

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	12000	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-97-6	Mercury	0.202	0.0945	0.0945	1		12/06/16 07:56	EPA 7471A	12/07/16 11:49 PRT	EPA 7471
7440-36-0	Antimony	ND	4.10	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-38-2	Arsenic	1.73	1.02	1.02	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-39-3	Barium	52.5	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.512	0.512	1	U	12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-43-9	Cadmium	0.770	0.512	0.512	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-70-2	Calcium	3580	25.6	25.6	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-47-3	Chromium	21.1	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-48-4	Cobalt	8.71	5.12	5.12	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-50-8	Copper	24.8	3.07	3.07	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-89-6	Iron	20600	640	640	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:01 LIT	EPA 6010
7439-92-1	Lead	48.8	1.02	1.02	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-95-4	Magnesium	5090	51.2	51.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-96-5	Manganese	389	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-02-0	Nickel	15.7	4.10	4.10	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-09-7	Potassium	1230	51.2	51.2	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7782-49-2	Selenium	ND	2.05	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-22-4	Silver	ND	0.512	0.512	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-23-5	Sodium	227	51.2	51.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-28-0	Thallium	ND	1.54	3.07	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-62-2	Vanadium	28.3	5.12	5.12	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-66-6	Zinc	92.3	6.15	6.15	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
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B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Matrix:	Soil
Percent Solids:	80.00	File ID:	120616A-024

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	11200	22.6	22.6	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-97-6	Mercury	0.269	0.0938	0.0938	1		12/06/16 07:56	EPA 7471A	12/07/16 11:51 PRT	EPA 7471
7440-36-0	Antimony	ND	4.51	4.51	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-38-2	Arsenic	2.11	1.13	1.13	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-39-3	Barium	69.9	22.6	22.6	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.564	0.564	1	U	12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-43-9	Cadmium	1.15	0.564	0.564	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-70-2	Calcium	7290	28.2	28.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-47-3	Chromium	21.5	2.26	2.26	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-48-4	Cobalt	9.88	5.64	5.64	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-50-8	Copper	48.3	3.38	3.38	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-89-6	Iron	24900	705	705	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:06 LIT	EPA 6010
7439-92-1	Lead	174	1.13	1.13	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-95-4	Magnesium	6270	56.4	56.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-96-5	Manganese	466	2.26	2.26	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-02-0	Nickel	17.6	4.51	4.51	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-09-7	Potassium	1530	56.4	56.4	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7782-49-2	Selenium	ND	2.26	4.51	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-22-4	Silver	ND	0.564	0.564	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-23-5	Sodium	279	56.4	56.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-28-0	Thallium	ND	1.69	3.38	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-62-2	Vanadium	29.7	5.64	5.64	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-66-6	Zinc	127	6.77	6.77	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Matrix:	Soil
Percent Solids:	83.20	File ID:	120616A-025

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	11500	18.2	18.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0901	0.0901	1	U	12/06/16 07:56	EPA 7471A	12/07/16 11:53 PRT	EPA 7471
7440-36-0	Antimony	ND	3.63	3.63	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-38-2	Arsenic	ND	0.908	0.908	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-39-3	Barium	52.5	18.2	18.2	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-41-7	Beryllium	0.526	0.454	0.454	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-43-9	Cadmium	0.695	0.454	0.454	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-70-2	Calcium	1150	22.7	22.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-47-3	Chromium	21.3	1.82	1.82	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-48-4	Cobalt	10.7	4.54	4.54	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-50-8	Copper	19.8	2.72	2.72	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-89-6	Iron	19800	567	567	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:11 LIT	EPA 6010
7439-92-1	Lead	17.3	0.908	0.908	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-95-4	Magnesium	4790	45.4	45.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-96-5	Manganese	360	1.82	1.82	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-02-0	Nickel	17.3	3.63	3.63	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-09-7	Potassium	1760	45.4	45.4	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7782-49-2	Selenium	ND	3.63	3.63	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-22-4	Silver	ND	0.454	0.454	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-23-5	Sodium	126	45.4	45.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-28-0	Thallium	ND	1.36	2.72	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-62-2	Vanadium	33.8	4.54	4.54	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-66-6	Zinc	61.3	5.45	5.45	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
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B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Matrix:	Soil
Percent Solids:	81.90	File ID:	120616A-026

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	10300	23.2	23.2	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-97-6	Mercury	0.237	0.0916	0.0916	1		12/06/16 07:56	EPA 7471A	12/07/16 11:55 PRT	EPA 7471
7440-36-0	Antimony	ND	4.65	4.65	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-38-2	Arsenic	2.30	1.16	1.16	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-39-3	Barium	72.2	23.2	23.2	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.581	0.581	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-43-9	Cadmium	1.06	0.581	0.581	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-70-2	Calcium	6750	29.0	29.0	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-47-3	Chromium	19.8	2.32	2.32	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-48-4	Cobalt	9.73	5.81	5.81	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-50-8	Copper	44.3	3.49	3.49	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-89-6	Iron	23200	726	726	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:17 LIT	EPA 6010
7439-92-1	Lead	162	1.16	1.16	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-95-4	Magnesium	6280	58.1	58.1	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-96-5	Manganese	401	2.32	2.32	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-02-0	Nickel	17.4	4.65	4.65	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-09-7	Potassium	1530	58.1	58.1	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7782-49-2	Selenium	ND	2.32	4.65	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-22-4	Silver	ND	0.581	0.581	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-23-5	Sodium	239	58.1	58.1	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-28-0	Thallium	ND	1.74	3.49	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-62-2	Vanadium	29.0	5.81	5.81	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-66-6	Zinc	131	6.97	6.97	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Matrix:	Soil
Percent Solids:	87.10	File ID:	120616A-027

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	9890	18.5	18.5	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0861	0.0861	1	U	12/06/16 07:56	EPA 7471A	12/07/16 11:57 PRT	EPA 7471
7440-36-0	Antimony	ND	3.71	3.71	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-38-2	Arsenic	1.56	0.927	0.927	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-39-3	Barium	55.1	18.5	18.5	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.463	0.463	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-43-9	Cadmium	0.913	0.463	0.463	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-70-2	Calcium	3270	23.2	23.2	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-47-3	Chromium	18.4	1.85	1.85	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-48-4	Cobalt	10.2	4.63	4.63	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-50-8	Copper	30.7	2.78	2.78	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-89-6	Iron	21400	579	579	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:22 LIT	EPA 6010
7439-92-1	Lead	63.6	0.927	0.927	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-95-4	Magnesium	5080	46.3	46.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-96-5	Manganese	412	1.85	1.85	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-02-0	Nickel	17.2	3.71	3.71	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-09-7	Potassium	1440	46.3	46.3	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7782-49-2	Selenium	ND	3.71	3.71	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-22-4	Silver	ND	0.463	0.463	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-23-5	Sodium	129	46.3	46.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-28-0	Thallium	ND	1.39	2.78	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-62-2	Vanadium	25.9	4.63	4.63	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-66-6	Zinc	100	5.56	5.56	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Matrix:	Soil
Percent Solids:	86.10	File ID:	120616A-028

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	10600	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-97-6	Mercury	0.0883	0.0871	0.0871	1		12/06/16 07:56	EPA 7471A	12/07/16 11:59 PRT	EPA 7471
7440-36-0	Antimony	ND	4.10	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-38-2	Arsenic	1.73	1.03	1.03	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-39-3	Barium	42.9	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.513	0.513	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-43-9	Cadmium	0.554	0.513	0.513	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-70-2	Calcium	1380	25.7	25.7	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-47-3	Chromium	17.5	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-48-4	Cobalt	11.1	5.13	5.13	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-50-8	Copper	18.3	3.08	3.08	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-89-6	Iron	18000	641	641	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:27 LIT	EPA 6010
7439-92-1	Lead	31.8	1.03	1.03	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-95-4	Magnesium	4270	51.3	51.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-96-5	Manganese	227	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-02-0	Nickel	16.4	4.10	4.10	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-09-7	Potassium	1110	51.3	51.3	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7782-49-2	Selenium	ND	2.05	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-22-4	Silver	ND	0.513	0.513	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-23-5	Sodium	138	51.3	51.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-28-0	Thallium	ND	1.54	3.08	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-62-2	Vanadium	22.7	5.13	5.13	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-66-6	Zinc	55.6	6.16	6.16	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

WET CHEMISTRY

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Matrix:	Soil
Percent Solids:	79.40	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.0	1.44	1.44	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.52	2.52	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.26	1.26	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	79.4	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Matrix:	Soil
Percent Solids:	76.70	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	20.8	1.96	1.96	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.61	2.61	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.30	1.30	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	76.7	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Matrix:	Soil
Percent Solids:	79.40	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.1	1.63	1.63	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.52	2.52	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.26	1.26	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	79.4	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Matrix:	Soil
Percent Solids:	80.00	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.5	1.81	1.81	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.50	2.50	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.25	1.25	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	80.0	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Matrix:	Soil
Percent Solids:	83.20	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.3	1.51	1.51	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.40	2.40	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.20	1.20	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	83.2	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Matrix:	Soil
Percent Solids:	81.90	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	19.8	1.90	1.90	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.44	2.44	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.22	1.22	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	81.9	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Matrix:	Soil
Percent Solids:	87.10	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	18.4	1.61	1.61	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.30	2.30	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.15	1.15	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	87.1	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Matrix:	Soil
Percent Solids:	86.10	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	17.5	1.77	1.77	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.32	2.32	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.16	1.16	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	86.1	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
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P - Greater than 25% diff. between 2 GC columns.
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Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 138th Street, Bronx, NY; 10BR188

AAR Work Order: 1501878

Client Sample ID:	Lab Sample ID:
EP-1	1501878-01
EP-2	1501878-02
EP-3	1501878-03
EP-4	1501878-04
EP-5	1501878-05

This data has been reviewed and accepted by:

Daniel Miguel 11/23/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Table of Contents

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 5 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 138th Street, Bronx, NY; 10BR188) on 10/20/2015 3:15:00 PM.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J2622 and B5J2718 recovered outside control limits for certain analytes. These analytes were recovered outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the Volatile Organic analyses, the MS/MSD for Batch B5J2622 and B5J2718 had compounds recovered outside acceptance criteria due to matrix interference, the LCS's were recovered within acceptance limits; therefore, no further action required.

In the Volatile Organic analyses, the methylene chloride result reported for all samples is due to laboratory contamination.

In the BNA analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J2601 recovered outside control limits for certain analytes. These analytes were recovered outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B5J2601 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the Pesticide/PCB analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J2301 recovered outside control limits for certain analytes. These analytes were recovered outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the Pesticide/PCB analyses, the MS/MSD for Batch B5J2301 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the Metals analysis, the MDL/RL for Selenium exceeds the NYDEC Unrestricted Soil Cleanup Criteria for AAR Sample #1501878-01 and -05 due to the high moisture content of the sample (% Solid: 44.6% AAR Sample #1501878-01 and 22.8% AAR Sample #1501878-05).

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Accredited Analytical Resources, LLC.

Methodology Summary

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **138th Street, Bronx, NY; 10BR188**
Work Order: **1501878**

Received: 10/20/15 15:15

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	138th St, Bronx, NY, 10BR188
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	d.harm@brink.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1501878
P.O. #	

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH (ft)	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-1	10/19/15 10:15 - 11:30	S	MS-15	4	G	✓	✓	-01
EP-2	10/19/15 10:20 - 11:35	S	MS-15	4	G	✓	✓	-02
EP-3	10/19/15 10:27 - 11:40	S	MS-15	4	G	✓	✓	-03
EP-4	10/19/15 10:35 - 11:45	S	MS-15	4	G	✓	✓	-04
EP-5	10/19/15 10:40 - 11:50	S	MS-15	4	G	✓	✓	-05

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) (STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: John Iannuo	Print Name: John Iannuo	Print Name: K. Nunez
Signature: Monica Norton	Signature: John Iannuo	Signature: John Iannuo	Signature: K. Nunez
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 10/20/15 Time: 10:10		Date Received: 10/20/15 Time: 15:15	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Bernie O'Gara

From: "Monica Norton" <mnorton@brinkenv.com>
To: "'Bernie O'Gara'" <bernie@accreditedanalytical.com>
Cc: "'Sean Harrison'" <sharrison@brinkenv.com>
Sent: Wednesday, October 21, 2015 3:55 PM
Subject: Chain of Custody Revision - 255 E. 138th Street - 10BR188

Bernie,

For the COC that was submitted yesterday, October 20th, 2015 for the project located at 255 East 138th Street, Bronx, NY (Name: 10BR188), please change the sample time for each EP sample to be the second time (i.e. EP-1 sampled at 11:30, EP-2 sampled at 11:35, EP-3 sampled at 11:40, etc…).

Please let me know if you have any other questions.

Thanks!

Monica

Monica Norton
mnorton@brinkenv.com
BRINKERHOFF
ENVIRONMENTAL SERVICES, INC.
1805 Atlantic Avenue
Manasquan, NJ 08736
Phone: 732-223-2225
Fax: 732-223-3666
Web: www.BrinkEnv.com

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-1	1501878-01	Soil	10/19/2015 11:30	10/20/2015 15:15
EP-2	1501878-02	Soil	10/19/2015 11:35	10/20/2015 15:15
EP-3	1501878-03	Soil	10/19/2015 11:40	10/20/2015 15:15
EP-4	1501878-04	Soil	10/19/2015 11:45	10/20/2015 15:15
EP-5	1501878-05	Soil	10/19/2015 11:50	10/20/2015 15:15

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-1
Lab Sample ID: 1501878-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Date Sampled:	10/19/15 11:30	Matrix:	Soil
Percent Solids:	44.60	File ID:	102615B-017

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	4.48	8.97	1	U	10/26/15 09:32	EPA 3050B	10/26/15 14:04 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-2
Lab Sample ID: 1501878-02
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Date Sampled:	10/19/15 11:35	Matrix:	Soil
Percent Solids:	62.00	File ID:	102615B-018

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	3.23	6.45	1	U	10/26/15 09:32	EPA 3050B	10/26/15 14:09 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-3
Lab Sample ID: 1501878-03
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Date Sampled:	10/19/15 11:40	Matrix:	Soil
Percent Solids:	79.20	File ID:	102615B-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.53	5.05	1	U	10/26/15 09:32	EPA 3050B	10/26/15 14:14 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-4
Lab Sample ID: 1501878-04
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Date Sampled:	10/19/15 11:45	Matrix:	Soil
Percent Solids:	74.20	File ID:	102615B-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.70	5.39	1	U	10/26/15 09:32	EPA 3050B	10/26/15 14:29 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-5
Lab Sample ID: 1501878-05
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Date Sampled:	10/19/15 11:50	Matrix:	Soil
Percent Solids:	22.80	File ID:	102615B-023

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	8.77	17.5	1	U	10/26/15 09:32	EPA 3050B	10/26/15 14:34 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 138th Street, Bronx, NY; 10BR188

AAR Work Order: 1501909

Client Sample ID:	Lab Sample ID:
EP-6	1501909-01
EP-7	1501909-02
EP-8	1501909-03

This data has been reviewed and accepted by:

Daniel Miguel 11/23/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Table of Contents

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 3 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 138th Street, Bronx, NY; 10BR188) on 10/23/2015 2:30:00 PM.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J2622 and B5J2718 recovered outside control limits for certain analytes. These analytes were outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the Volatile Organic analyses, the MS/MSD for Batch B5J2622 and B5J2718 had compounds recovered outside acceptance criteria due to matrix interference, the LCS's were recovered within acceptance limits; therefore, no further action required.

In the Volatile Organic analyses, one surrogate (Bromofluorobenzene) for AAR Sample #1501909-01 was out of criteria. The sample was reanalyzed and the surrogate was again recovered out of the required criteria. The methylene chloride result reported for all samples is due to laboratory contamination.

In the BNA analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J2601 recovered outside control limits for certain analytes. These analytes were outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B5J2601 had compounds recovered outside acceptance limits due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the Metals analysis, the MDL/RL for Selenium exceeds the NYDEC Unrestricted Soil Cleanup Criteria for AAR Sample #1501909-01 and -03 due to the high moisture content of the sample (% Solid: 48% AAR Sample #1501909-01 and 47% AAR Sample #1501909-03).

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike concentration. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Accredited Analytical Resources, LLC.

Methodology Summary

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **138th Street, Bronx, NY; 10BR188**
Work Order: **1501909**

Received: 10/23/15 14:30

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ
ZIP:	08736

STATE AGENCY (CIRCLE ONE)	NJ (NY circled) PA
PROJECT NAME:	138th St., Bronx, NY; 10BR188
CONTACT:	Doug Harm
OFFICE PHONE #:	732-223-2225
OFFICE FAX #:	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brink.env

AAR QUOTE #	
AAR WORK ORDER #	1501909
P.O. #	

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL Full	TCL Full	AAR SAMPLE #
EP-6	10/22/15 / 13:57	S		4	G	✓	✓	-01
EP-7	10/22/15 / 14:08	S		4	G	✓	✓	-02
EP-8	10/23/15 / 08:15	S		4	G	✓	✓	-03

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ______

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ______

TURNAROUND TIME: (CIRCLE ONE) STANDARD (circled) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ______ (IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: A. McGill	Print Name: A. McGill	Print Name: K. Muniz
Signature: Monica Norton	Signature: [signature]	Signature: [signature]	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 10/23/15	Time: 10:45	Date Received: 10/23/15	Time: 1430

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-6	1501909-01	Soil	10/22/2015 13:57	10/23/2015 14:30
EP-7	1501909-02	Soil	10/22/2015 14:08	10/23/2015 14:30
EP-8	1501909-03	Soil	10/23/2015 08:15	10/23/2015 14:30

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-6
Lab Sample ID: 1501909-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501909

Date Sampled:	10/22/15 13:57	Matrix:	Soil
Percent Solids:	48.00	File ID:	102615B-029

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	4.17	8.33	1	U	10/26/15 09:32	EPA 3050B	10/26/15 15:05 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-7
Lab Sample ID: 1501909-02
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501909

Date Sampled:	10/22/15 14:08	Matrix:	Soil
Percent Solids:	70.00	File ID:	102615B-030

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.86	5.71	1	U	10/26/15 09:32	EPA 3050B	10/26/15 15:10 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-8
Lab Sample ID: 1501909-03
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501909

Date Sampled:	10/23/15 08:15	Matrix:	Soil
Percent Solids:	47.00	File ID:	102615B-031

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	4.26	8.51	1	U	10/26/15 09:32	EPA 3050B	10/26/15 15:15 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 138th Street, Bronx, NY; 10BR188

AAR Work Order: 1501914

Client Sample ID:	Lab Sample ID:
EP-9	1501914-01

This data has been reviewed and accepted by:

Daniel Miguel 11/18/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Table of Contents

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 138th Street, Bronx, NY; 10BR188) on 10/26/2015 12:20:00 PM.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J2622 and B5J2718 recovered outside control limits for certain analytes. These analytes were outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the Volatile Organic analyses, the MS/MSD for B5J2622 and B5J2718 had compounds recovered outside acceptance criteria due to matrix interference, the LCS's were recovered within acceptance limits; therefore, no further action required.

In the Volatile Organic analyses, the methylene chloride result reported is due to laboratory contamination.

In the BNA analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J2710 recovered outside control limits for certain analytes. These analytes were outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for B5J2710 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **138th Street, Bronx, NY; 10BR188**
Work Order: **1501914**

Received: 10/26/15 12:20

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	138th St., Bronx, NY; 10BR188
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brinx.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1501914
P.O. #	

COLLECTION INFORMATION

ANALYSIS

PRES. CODE →
CONT. CODE →

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-9	10/23/15 11:00 AM	S		4	G	✓	✓	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC ~~E = ENCORE~~ PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) (STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED X FULL ____ EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: J. McGee	Print Name: J. McGee	Print Name: K. Muniz
Signature: Monica Norton	Signature:	Signature:	Signature: K. Muniz
Agent of:	Agent of:	Agent of:	Agent of: AAR
Date Received: 10/26/15	Time: 9:50	Date Received: 10/26/15	Time: 1220

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-9	1501914-01	Soil	10/23/2015 11:00	10/26/2015 12:20

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9
Lab Sample ID: 1501914-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Date Sampled:	10/23/15 11:00	Matrix:	Soil
Percent Solids:	68.60	File ID:	102715B-016

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.92	5.83	1	U	10/27/15 11:02	EPA 3050B	10/27/15 15:29 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 138th Street, Bronx, NY; 10BR188

AAR Work Order: 1501923

Client Sample ID:	Lab Sample ID:
EP-10	1501923-01

This data has been reviewed and accepted by:

Daniel Miguel 11/18/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Table of Contents

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 138th Street, Bronx, NY; 10BR188) on 10/27/2015 2:15:00 PM.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B5K0314-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Volatile Organic analyses, the methylene chloride result reported is due to laboratory contamination.

In the BNA analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J3001 recovered outside control limits for certain analytes. These analytes were outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B5J3001 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **138th Street, Bronx, NY; 10BR188**
Work Order: **1501923**

Received: 10/27/15 14:15

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	135th Street, Bronx, NY; 10BR188
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brink.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ
ZIP:	08736

AAR QUOTE #	
AAR WORK ORDER #	1501923
P.O. #	

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL Lead	TCL Lead	AAR SAMPLE #
EP-10	10/26/15/12:05	S		4	G	✓	✓	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER

TURNAROUND TIME: (CIRCLE ONE) (STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER

(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: John Iannino	Print Name: John Iannino	Print Name: K. Muniz
Signature: Monica Norton	Signature:	Signature:	Signature:
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 10/27/15	Time: 1316	Date Received: 10/27/15	Time: 1415

RELINQUISHED BY	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-10	1501923-01	Soil	10/26/2015 12:05	10/27/2015 14:15

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-10
Lab Sample ID: 1501923-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501923

Date Sampled:	10/26/15 12:05	Matrix:	Soil
Percent Solids:	67.30	File ID:	103015A-017

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.97	5.94	1	U	10/30/15 08:41	EPA 3050B	10/30/15 14:02 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 138th Street, Bronx, NY; 10BR188

AAR Work Order: 1501955

Client Sample ID:	Lab Sample ID:
EP-11	1501955-01

This data has been reviewed and accepted by:

Daniel Miguel 11/23/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Table of Contents

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 138th Street, Bronx, NY; 10BR188) on 10/29/2015 3:40:00 PM.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B5K0314-MS1/MSD1 and B5K0509-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS's were recovered within acceptance limits for all compounds; therefore, no further action required.

In the Volatile Organic analyses, the methylene chloride result reported is due to laboratory contamination.

In the BNA analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J3001 recovered outside control limits for certain analytes. These analytes were outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B5J3001 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the Metals analysis, the MDL/RL for Selenium exceeds the NYDEC Unrestricted Soil Cleanup Criteria for AAR Sample #1501955-01 due to the high moisture content of the sample (% Solid: 50%).

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **138th Street, Bronx, NY; 10BR188**
Work Order: **1501955**

Received: 10/29/15 15:40

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	138th Street, Bronx, NY; 10BR168
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brink.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ
ZIP:	08736

AAR QUOTE #	
AAR WORK ORDER #	1501955
P.O. #	

ANALYSIS

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	PRES. CODE → / CONT. CODE → TAL full	TCL full	AAR SAMPLE #
EP-11	10/28/15 11:20	S		4	G	✓	✓	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) (STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ___ REDUCED ___ FULL X EDD ___ EXCEL SPREADSHEET ___

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable. COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: John Inacio	Print Name: John Inacio	Print Name: K. Muniz
Signature: Monica Norton	Signature:	Signature:	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 10/29/15	Time: 1245	Date Received: 10/29/15	Time: 1540

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-11	1501955-01	Soil	10/28/2015 11:20	10/29/2015 15:40

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-11
Lab Sample ID: 1501955-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501955

Date Sampled:	10/28/15 11:20	Matrix:	Soil
Percent Solids:	50.00	File ID:	103015A-018

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	4.00	8.00	1	U	10/30/15 08:41	EPA 3050B	10/30/15 14:07 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 138th Street, Bronx, NY; 10BR188

AAR Work Order: 1501974

Client Sample ID:	Lab Sample ID:
EP-12	1501974-01

This data has been reviewed and accepted by:

Daniel Miguel 11/18/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Table of Contents

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 138th Street, Bronx, NY; 10BR188) on 11/2/2015 3:50:00 PM.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B5K0314-MS1/MSD1 and B5K0509-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS's were recovered within acceptance limits for all compounds; therefore, no further action required.

In the Volatile Organic analyses, the methylene chloride result reported is due to laboratory contamination.

In the BNA analyses, B5K0410-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **138th Street, Bronx, NY; 10BR188**
Work Order: **1501974**

Received: 11/2/15 15:50

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	138th Street, Bronx, NY; 10BR188
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brink.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ
ZIP:	08736

AAR QUOTE #	
AAR WORK ORDER #	1501974
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL Bun	TCL Bun	AAR SAMPLE #
EP-12	10/30/15/11:00AM	S		4	G	✓	✓	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC ~~E = ENCORE~~ PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) (STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ___ REDUCED ___ FULL X EDD ___ EXCEL SPREADSHEET ___

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable.

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name:	Print Name:	Print Name: K. Muniz
Signature: Monica Norton	Signature:	Signature:	Signature: K. Muniz
Agent of:	Agent of:	Agent of:	Agent of: AAR
Date Received: 11/2/15	Time: 13:40	Date Received: 11/2/15	Time: 15:50

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-12	1501974-01	Soil	10/30/2015 11:00	11/02/2015 15:50

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-12
Lab Sample ID: 1501974-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501974

Date Sampled:	10/30/15 11:00	Matrix:	Soil
Percent Solids:	63.40	File ID:	110515B-017

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	3.15	6.31	1	U	11/05/15 06:45	EPA 3050B	11/05/15 13:34 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: E. 138th Street, Bronx, NY; 10BR188

AAR Work Order: 1502015

Client Sample ID:	Lab Sample ID:
EP-13	1502015-01
EP-9b	1502015-02

This data has been reviewed and accepted by:

Daniel Miguel 11/23/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 2 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: E. 138th Street, Bronx, NY; 10BR188) on 11/5/2015 4:25:00 PM.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B5K0916-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5K1009 recovered outside control limits for multiple analytes. These analytes were within house limits; therefore, the data has been reported.

In the Metals analysis, the MDL/RL for Selenium exceeds the NYDEC Unrestricted Soil Cleanup Criteria for AAR Sample #1502015-01 due to the high moisture content of the sample (% Solid: 20.6%).

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria fro those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **E. 138th Street, Bronx, NY; 10BR188**
Work Order: **1502015**

Received: 11/5/15 16:25

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	E. 138th Street, Bronx NY; 10BR188
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3066
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brink.env

AAR QUOTE #
AAR WORK ORDER # 1502015
P.O. # 10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-13	11/4/15 08:50	S		4	G	✓	✓	-01
EP-9b	11/4/15 13:15	S		4	G	✓	✓	-02

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____
CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE)	(STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ____ (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send Invoice to Brinkerhoff; NYSDEC Category B data deliverable
COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: J. Muñiz	Print Name:	Print Name: K. Muniz
Signature: Monica Norton	Signature:	Signature:	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 11/05/15	Time: 11:40	Date Received: 11/5/15	Time: 1625
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-13	1502015-01	Soil	11/04/2015 08:50	11/05/2015 16:25
EP-9b	1502015-02	Soil	11/04/2015 13:15	11/05/2015 16:25

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-13
Lab Sample ID: 1502015-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 08:50	Matrix:	Soil
Percent Solids:	20.60	File ID:	110915D-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	9.71	19.4	1	U	11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9b
Lab Sample ID: 1502015-02
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 13:15	Matrix:	Soil
Percent Solids:	58.00	File ID:	110915D-023

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	3.45	6.90	1	U	11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 138th Street, Bronx, NY; 10BR188

AAR Work Order: 1502031

Client Sample ID:	Lab Sample ID:
EP-14	1502031-01
EP-15	1502031-02
EP-16	1502031-03

This data has been reviewed and accepted by:

Daniel Miguel 11/18/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Table of Contents

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 3 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 138th Street, Bronx, NY; 10BR188) on 11/10/2015 2:15:00 PM.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B5K1614-MS1/MSD1 and B5K1710-MS1/MSD1 had compounds recovered outside acceptance limits due to matrix interference, the LCS was recovered within acceptance limts for all compounds; therefore, no further action required.

In the Volatile Organic analyses, one surrogate (Bromofluorobenzene) for AAR Sample #1502031-02 was out of criteria. The sample was reanalyzed and the surrogate was again recovered out of the required criteria. The methylene chloride result reported for AAR Sample #1502031-01 is due to matrix interference.

In the BNA analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5K1301 recovered outside control limits for certain analytes. These analytes were within house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B5K1301 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **138th Street, Bronx, NY; 10BR188**
Work Order: **1502031**

Received: 11/10/15 14:15

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	138th Street, Bronx, NY; 10BR188
CONTACT:	Doug Harm & Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm and Sharrison@brinkenv
EMAIL FOR INVOICE:	dharm@brinkenv

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ
ZIP:	08736

AAR QUOTE #	
AAR WORK ORDER #	1502031
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL Bwn	TCL Bwn	AAR SAMPLE #
EP-14	11/9/15/10:40	S		4	G	✓	✓	-01
EP-15	11/9/15/10:50	S		4	G	✓	✓	-02
EP-16	11/9/15/11:10	S		4	G	✓	✓	-03

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER
CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER

TURNAROUND TIME: (CIRCLE ONE)	STANDARD	5 DAY	72 HRS.	48 HRS.	24 HRS.	OTHER 1 week
	(IF BLANK STANDARD WILL APPLY)					
REPORT TYPE:	RESULTS ONLY ____	REDUCED ____	FULL X	EDD ____	EXCEL SPREADSHEET ____	

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable.
COOLER TEMP: 4°

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: John Ingram	Print Name: John Ingram	Print Name: K. Muniz
Signature: Monica Norton	Signature:	Signature:	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 11/10/15	Time: 10:15	Date Received: 11/10/15	Time: 1450
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-14	1502031-01	Soil	11/09/2015 10:40	11/10/2015 14:15
EP-15	1502031-02	Soil	11/09/2015 10:50	11/10/2015 14:15
EP-16	1502031-03	Soil	11/09/2015 11:10	11/10/2015 14:15

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-14
Lab Sample ID: 1502031-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:40	Matrix:	Soil
Percent Solids:	63.00	File ID:	111215B-018

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	3.17	6.35	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-15
Lab Sample ID: 1502031-02
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:50	Matrix:	Soil
Percent Solids:	58.00	File ID:	111215B-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	3.45	6.90	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-16
Lab Sample ID: 1502031-03
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 11:10	Matrix:	Soil
Percent Solids:	84.20	File ID:	111215B-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.38	4.75	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: E. 138th Street, Bronx, NY; 10BR188

AAR Work Order: 1502101

Client Sample ID:	Lab Sample ID:
EP-17	1502101-01

This data has been reviewed and accepted by:

Daniel Miguel 11/18/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: E. 138th Street, Bronx, NY; 10BR188) on 11/18/2015 4:10:00 PM.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the methylene chloride result reported is due to laboratory contamination.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **E. 138th Street, Bronx, NY; 10BR188**
Work Order: **1502101**

Received: 11/18/15 16:10

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	E 138th Street, Bronx, NY; 10BR188
CONTACT:	Doug Harm + Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm + Sean Harrison
EMAIL FOR INVOICE:	dharm@brink.env + sharrison@brink.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1502101
P.O. #	10BR188

ANALYSIS

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-17	11/17/15/11:50	S		4	G			-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER

TURNAROUND TIME: (CIRCLE ONE)	STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. (OTHER) 1 week (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ___ REDUCED ___ (FULL) X EDD ___ EXCEL SPREADSHEET ___

COMMENTS: NYSDEC Category B data deliverable. Please complete hardcopy report by November 25th, 2015. COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name:	Print Name:	Print Name: K. Muniz
Signature: Monica Norton	Signature:	Signature:	Signature: Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 11/18/15	Time: 12:20	Date Received: 11/18/15	Time: 1610

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-17	1502101-01	Soil	11/17/2015 11:50	11/18/2015 16:10

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-17
Lab Sample ID: 1502101-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502101

Date Sampled:	11/17/15 11:50	Matrix:	Soil
Percent Solids:	53.00	File ID:	111915D-029

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	3.77	7.55	1	U	11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street, Bronx, NY

AAR Work Order: 1502323

Client Sample ID:	Lab Sample ID:
EP-18	1502323-01

This data has been reviewed and accepted by:

Daniel Miguel 11/17/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street, Bronx, NY) on 12/23/2015 12:00:00 PM.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the BNA analyses, the laboratory control sample (LCS) for Batch B5L2403 recovered outside control limits for multiple analytes. These analytes were within house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B5L2403 had compounds recovered outside acceptance criteria due to matrix interference. The LCS was within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, the laboratory control sample (LCS) for Batch B5L2402 recovered outside control limits for certain analytes. These analytes were within house limits; therefore, the data has been reported.

In the Pesticide analyses, the MS/MSD for Batch B5L2402 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was within acceptance limits for affected compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Received: 12/23/15 12:00

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 E. 138th Street, Bronx, NY
CONTACT:	Doug Harm + Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm + Sean Harrison
EMAIL FOR INVOICE:	dharm@brink.env + sharrison@brinx.env

CLIENT NAME:	BrinKerhoff Environmental Services, Inc.
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan.
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1502323
P.O. #	10BR188

ANALYSIS

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	PRES. CODE → / CONT. CODE → TAL Full	TCL Full	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-18	12/23/15 10:10	S		4	G	X	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER_____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER_____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER 1 Week
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Category B data deliverable. Hard copy by January 13th 2015 NYSDEC
COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY. CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: K. Muniz	Print Name:	Print Name:
Signature: Monica Norton	Signature: K. Muniz	Signature:	Signature:
Agent of:	Agent of: AAR	Agent of:	Agent of:
Date Received: 12/23/15	Time: 1200	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-18	1502323-01	Soil	12/23/2015 10:10	12/23/2015 12:00

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-18
Lab Sample ID: 1502323-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Matrix:	Soil
Percent Solids:	71.30	File ID:	122815A-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.81	5.61	1	U	12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street, Bronx, NY

AAR Work Order: 1502333

Client Sample ID:	Lab Sample ID:
EP-19	1502333-01

This data has been reviewed and accepted by:

Daniel Miguel 11/17/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Table of Contents

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street, Bronx, NY) on 12/28/2015 12:57:00 PM.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B5L2811-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B5L3003 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B5L3003 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, B5L3001-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502333**

Received: 12/28/15 12:57

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 E. 138th Street, Bronx, NY
CONTACT:	Doug Harm + Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm + Sean Harrison
EMAIL FOR INVOICE:	dharm@brinkenv + sharrison@brinkenv

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Monasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1502333
P.O. #	10BR188

ANALYSIS

COLLECTION INFORMATION						ANALYSIS														
CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	PRES. CODE → / CONT. CODE →	5	E	6	6										AAR SAMPLE #
							TAL full	TCL full	Hex Chrom	Tri Chrom										
EP-19	12/28/15 / 9:05	S		4	G		X	X	X	X										-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD (1 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER _____ (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Category B data deliverable. Hard copy by January 27th 2015 NYSDEC

COOLER TEMP: 4°

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: D. Miguel	Print Name:	Print Name:
Signature: Monica Norton	Signature:	Signature:	Signature:
Agent of:	Agent of: AAR	Agent of:	Agent of:
Date Received: 12/28/15 Time: 12:57		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-19	1502333-01	Soil	12/28/2015 09:05	12/28/2015 12:57

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-19
Lab Sample ID: 1502333-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502333

Date Sampled:	12/28/15 09:05	Matrix:	Soil
Percent Solids:	79.00	File ID:	123015B-012

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.53	5.06	1	U	12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 E. 138th Street

AAR Work Order: 1600232

Client Sample ID:	Lab Sample ID:
EP-20	1600232-01

This data has been reviewed and accepted by:

Daniel Miguel 11/18/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Table of Contents

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 E. 138th Street) on 02/10/2016 13:00.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the MDL level was elevated due to matrix interference.

In the Volatile Organic analyses, B6B1514-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6B1101 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6B1101 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, B6B1201-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those compounds out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 E. 138th Street**
Work Order: **1600232**

Received: 2/10/16 13:00

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 E. 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Sean Harrison
EMAIL FOR INVOICE:	sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1690232
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL Metals	TCL Pest	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-20	2/10/16 10:15	S		4	G	✓	✓	✓	✓	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____
CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER 1 week (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Forte NYSDEC category B data deliverable - Send invoice to Brinkerhoff

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: MonicaNorton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: K. Muniz	Print Name:	Print Name:
Signature: MonicaNorton	Signature: K. Muniz	Signature:	Signature:
Agent of: BES	Agent of: AAR	Agent of:	Agent of:
Date Received: 2/10/16	Time: 1300	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-20	1600232-01	Soil	02/10/2016 10:15	02/10/2016 13:00

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Matrix:	Soil
Percent Solids:	83.00	File ID:	021216A-017

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.41	4.82	1	U	02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601375

Client Sample ID:	Lab Sample ID:
EP-21	1601375-01

This data has been reviewed and accepted by:

Daniel Miguel 11/17/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Table of Contents

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 07/21/2016 13:40.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, one surrogate (1,2-Dichloroethane-d4) was out of criteria. The sample was reanalyzed and the surrogate was again recovered out of the required criteria.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6G2215 recovered outside control limits for certain analytes. These analytes were within house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6G2215 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria due to matrix interference. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1601375**

Received: 7/21/16 13:40

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave.
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1601375
P.O. #	10BRI88

COLLECTION INFORMATION / ANALYSIS

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-21	7/21/16	S	18'	4	G	X	X	X	-01

PRES. CODE →
CONT. CODE →

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE

PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____ (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Catagory B Data Deliverables

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: Jonathan Kraus

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: Jonathan Kraus	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 7/21/16	Time: 1340	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-21	1601375-01	Soil	07/21/2016 00:00	07/21/2016 13:40

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-21
Lab Sample ID: 1601375-01
Project: 255 East 138th Street
Work Order: 1601375

Date Sampled:	07/21/16 00:00	Matrix:	Soil
Percent Solids:	81.00	File ID:	072216A-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.43	4.85	1	U	07/22/16 07:29	EPA 3050B	07/22/16 13:34 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138 Street

AAR Work Order: 1601418

Client Sample ID:	Lab Sample ID:
EP-22	1601418-01

This data has been reviewed and accepted by:

Daniel Miguel 11/18/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Table of Contents

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138 Street) on 07/28/2016 15:25.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the methylene chloride result reported is due to laboratory contamination.

In the Volatile Organic analyses, B6H0217-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6H0203 recovered outside control limits for multiple analytes. These analytes were recovered within house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6H0203 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138 Street**
Work Order: **1601418**

Received: 7/28/16 15:25

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138 Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey
ZIP:	08736

AAR QUOTE #	
AAR WORK ORDER #	1601418
P.O. #	10BR188

COLLECTION INFORMATION

ANALYSIS

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	PRES. CODE → / CONT. CODE → TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-22	7/28/16 1045	S	9-10'	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER

TURNAROUND TIME: (CIRCLE ONE) STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER

(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ___ REDUCED ___ FULL X EDD ___ EXCEL SPREADSHEET ___

COMMENTS: NYSDEC Catagory B Data Deliverables

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN:

SIGN BELOW WHEN DELIVERING SAMPLES - EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 7/28/16	Time: 1525	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-22	1601418-01	Soil	07/28/2016 10:44	07/28/2016 15:25

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-22
Lab Sample ID: 1601418-01
Project: 255 East 138 Street
Work Order: 1601418

Date Sampled:	07/28/16 10:44	Matrix:	Soil
Percent Solids:	89.20	File ID:	080216A-018

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.24	4.48	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:13 LIT	EPA 6010

* Values outside of QC limits
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U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 E. 138th Street

AAR Work Order: 1601618

Client Sample ID:	Lab Sample ID:
EP-24	1601618-01

This data has been reviewed and accepted by:

Daniel Miguel 11/18/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Table of Contents

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 E. 138th Street) on 08/24/2016 14:05.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B6H2515-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6H2601 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6H2601 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, the laboratory control sample (LCS) for Batch B6H2506 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike concentration. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 E. 138th Street**
Work Order: **1601618**

Received: 8/24/16 14:05

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 E. 138th St.
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey
ZIP:	08736

AAR QUOTE #	
AAR WORK ORDER #	1631618
P.O. #	10BR198

COLLECTION INFORMATION

ANALYSIS

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	PRES. CODE → / CONT. CODE → TAL/TCL	Hex Chrom	Tri. Chrom	AAR SAMPLE #
EP-24	8/24/16 1240	S	10-11	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYS DEC Catagory B Data Deliverables. Hard copy due 4 weeks from today: 8/24/16

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: Jonathan Kraus

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: R. Muniz	Print Name:	Print Name:
Signature: Jonathan Kraus	Signature: R. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 8/24/16	Time: 1405	Date Received: / /	Time:
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-24	1601618-01	Soil	08/24/2016 12:10	08/24/2016 14:05

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-24
Lab Sample ID: 1601618-01
Project: 255 E. 138th Street
Work Order: 1601618

Date Sampled:	08/24/16 12:10	Matrix:	Soil
Percent Solids:	82.40	File ID:	082616E-027

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.42	4.84	1	U	08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601635

Client Sample ID:	Lab Sample ID:
EP-25	1601635-01

This data has been reviewed and accepted by:

Daniel Miguel 11/17/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Table of Contents

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 08/24/2016 14:05.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B6H2515-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6H2601 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6H2601 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, the labortory control sample (LCS) for Batch B6H2506 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1601635**

Received: 8/24/16 14:05

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
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WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	BrinKerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey
ZIP:	08736

AAR QUOTE #	
AAR WORK ORDER #	1601635
P.O. #	10BRI88

ANALYSIS

PRES. CODE →
CONT. CODE →

TAL/TCL
Hex Chrom
TCL Chrom

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)				AAR SAMPLE #
EP-25	8/24/16 1040	S	NA	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER_____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER_____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____ (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Category B Data Deliverables. Hard Copy due 4 weeks from today, 8/24/16. DO NOT RUN. Until authorized by email

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN:

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature:	Signature: K. Muniz	Signature:	Signature:
Agent of: BrinKerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 8/24/16	Time: 1405	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX/ 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138th Street
CONTACT	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	BrinKerhoff Environmental
ADDRESS:	1805 Atlantic Ave.
CITY:	Manasquan
STATE:	New Jersey ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	
P.O. #	10BR189

ANALYSIS

PRES. CODE →
CONT. CODE →

TAL/TCL
Hex Chrom
TCL Chrom

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	AAR SAMPLE #
EP-25	8/24/16 1040	S		4	G	

Please analyze sample with a 48-hour TAT.
SH 8/25/2016

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ____ (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Category B Data Deliverables. Hard Copy due 4 weeks from today, 8/24/16. DO NOT RUN, Until authorized

COOLER TEMP:

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus by email SIGN:

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K Muniz	Print Name:	Print Name:
Signature:	Signature: K Muniz	Signature:	Signature:
Agent of: BrinKerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 8/24/16	Time: 1405	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-25	1601635-01	Soil	08/24/2016 10:40	08/24/2016 14:05

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Matrix:	Soil
Percent Solids:	91.20	File ID:	082616E-035

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.18	4.36	1	U	08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601673

Client Sample ID:	Lab Sample ID:
EP-26	1601673-01

This data has been reviewed and accepted by:

Daniel Miguel 11/17/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Table of Contents

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 08/31/2016 14:20.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B6I0210-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, B6I0103-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Pesticide analyses, B6I0601-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1601673**

Received: 8/31/16 14:20

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732)223-2225
OFFICE FAX #	(732)223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1631673
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-26	8/31/16 0856	S	4-4	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____
CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ___ REDUCED ___ FULL X EDD ___ EXCEL SPREADSHEET ___

COMMENTS: NYSDEC Catagory B Data Deliverables. Hard Copy report due four (4) weeks from today

COOLER TEMP: 4°C

PERSON(S) ASSUMING responsibility FOR SAMPLING: PRINT: Jonathon Kraus SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathon Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 8/31/16	Time: 1400	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-26	1601673-01	Soil	08/31/2016 08:56	08/31/2016 14:20

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-26
Lab Sample ID: 1601673-01
Project: 255 East 138th Street
Work Order: 1601673

Date Sampled:	08/31/16 08:56	Matrix:	Soil
Percent Solids:	87.20	File ID:	090616C-018

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.29	4.59	1	U	09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601701

Client Sample ID:	Lab Sample ID:
EP-27	1601701-01

This data has been reviewed and accepted by:

Daniel Miguel 11/17/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Table of Contents

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 09/07/2016 14:15.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B6I0815-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6I0901 recovered outside control limits for multiple analytes. These analytes were recovered within house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6I0901 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, B6I0902-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1601701**

Received: 9/7/16 14:15

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1505 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey
ZIP:	07756

AAR QUOTE #	
AAR WORK ORDER #	1601701
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-27	9/6/16 1247	S	16'	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER

TURNAROUND TIME: (CIRCLE ONE)	STANDARD	5 DAY	72 HRS.	48 HRS.	24 HRS.	OTHER 36 hr JK 9/7/16
REPORT TYPE:	RESULTS ONLY ___	REDUCED ___	FULL X	EDD ___	EXCEL SPREADSHEET ___	(IF BLANK STANDARD WILL APPLY)

COMMENTS: NYS DEC Catagory B Data Deliverables. Hard Copy report due 4 weeks from today.

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN:

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY CUSTODY MUST BE DOCUMENTED

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: B. O'Gara	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 9 / 7 / 16	Time: 14:15	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-27	1601701-01	Soil	09/06/2016 12:47	09/07/2016 14:15

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Matrix:	Soil
Percent Solids:	73.30	File ID:	091216A-017

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.02	4.04	1	U	09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601783

Client Sample ID:	Lab Sample ID:
EP-31	1601783-01

This data has been reviewed and accepted by:

Daniel Miguel 11/17/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Table of Contents

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 09/16/2016 14:10.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B6I2013-MS1/MSD1 and B6I2307-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS's were recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, three surrogates (2-Fluorophenol, Phenol-d5 and 2,4,6-Tribromophenol) were out of criteria. The sample was diluted and analyzed and the surrogates were again recovered out of the required criteria.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6I2101 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6I2101 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, B6I1902-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered withn acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1601783**

Received: 9/16/16 14:10

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th street
CONTACT:	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	sharrison@brinkenv.com
EMAIL FOR INVOICE:	same

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1631783
P.O. #	10BR188

COLLECTION INFORMATION / ANALYSIS

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	PRES. CODE → / CONT. CODE → TAL TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-31	9/16/16 10:20	S	15-15.5	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER

TURNAROUND TIME: (CIRCLE ONE) STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER

(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSEC catagory B Data Deliverables. Hard copy report due four (4) weeks from today.

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Rachael Barr SIGN: R. Barr

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Rachael Barr	Print Name: K. Muniz	Print Name:	Print Name:
Signature: R. Barr	Signature:	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 9/16/16	Time: 1410	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-31	1601783-01	Soil	09/16/2016 10:20	09/16/2016 14:10

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Matrix:	Soil
Percent Solids:	37.20	File ID:	092016B-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.88	5.75	1	U	09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1602114

Client Sample ID:	Lab Sample ID:
EP-32	1602114-01
EP-33	1602114-02
DUP-1	1602114-03

This data has been reviewed and accepted by:

Daniel Miguel 11/23/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Table of Contents

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

AAR Work Order:**1602114**

Accredited Analytical Resources, LLC received 3 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 11/07/2016 14:15.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the MDL level was elevated for AAR Sample #1602114-03 due to matrix interference.

In the Volatile Organic analyses, B6K1113-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6K0901 recovered outside control limits for certain analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6K0901 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, B6K0902-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis, the MDL/RL for Selenium exceeds the NYDEC Unrestricted Soil Cleanup Criteria for AAR Sample #1602114-01 due to the high moisture content of the sample (% Solid: 27%).

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria due to matrix interference. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1602114**

Received: 11/7/16 14:15

Cooler

Temperature °C	6.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3664
INITIAL RESULTS TO:	Sean Harrison
EMAIL FOR INVOICE:	sharrison@brinkerhw.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1602114
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex chrom	Tri chrom	AAR SAMPLE #
EP-32	11/7/16 1230	S	5'-15.5'	4	G	X	X	X	-01
EP-33	11/7/16 1215	S	4.5'-15'	4	G	X	X	X	-02
DUP-1	11/7/16 1220	S		4	G	X	X	X	-03

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER _____ (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Catagory B Data Deliverables. Hard copy Report due (4) four weeks from today.

COOLER TEMP: 6°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Rachael Barr SIGN: R B

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Rachael Barr	Print Name: K. Muniz	Print Name:	Print Name:
Signature: R B	Signature: K Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 11/7/16	Time: 1416	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	T

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-32	1602114-01	Soil	11/07/2016 12:30	11/07/2016 14:15
EP-33	1602114-02	Soil	11/07/2016 12:15	11/07/2016 14:15
DUP-1	1602114-03	Soil	11/07/2016 12:20	11/07/2016 14:15

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Matrix:	Soil
Percent Solids:	27.00	File ID:	110816A-018

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	13.4	13.4	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Matrix:	Soil
Percent Solids:	86.50	File ID:	110816A-021

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	3.64	3.64	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Matrix:	Soil
Percent Solids:	87.40	File ID:	110816A-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	3.65	3.65	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1602245

Client Sample ID:	Lab Sample ID:
EP-34	1602245-01
EP-35	1602245-02
EP-36	1602245-03
EP-37	1602245-04
EP-38	1602245-05
EP-39	1602245-06
EP-39	1602245-06RE1
EP-40	1602245-07
DUP-2	1602245-08

This data has been reviewed and accepted by:

Daniel Miguel 12/08/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Methodology Summary

EPA Method SW846 8081/8082:
NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:
NJ 8270C
NY 8270D

Total Mercury by SW846 7471:
NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:
NJ 8260B
NY 8260C

Wet Chemistry:
Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources, LLC.

Internal Chain of Custody

	Out	*In*
1602245-01 (A)		
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
1602245-01 (B)	*Out*	*In*
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-01 (C)	*Out*	*In*
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-01 (D)	*Out*	*In*
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-01RE1 (A)	*Out*	*In*
Walk-In Storage	12/6/16 15:37 by ARS	12/7/16 15:52 by ARS
Walk-In Storage	12/7/16 15:52 by DSM	by DSM
1602245-02 (A)	*Out*	*In*
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
Metals	12/8/16 8:40 by PRT	by PRT
1602245-02 (B)	*Out*	*In*
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-02 (C)	*Out*	*In*
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-02 (D)	*Out*	*In*
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-02RE1 (D)	*Out*	*In*
VOA Storage	12/7/16 14:17 by SG	12/7/16 15:55 by SG

VOA Storage	12/7/16 15:55 by SG	by SG

1602245-03 (A)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
Metals	12/8/16 8:40 by PRT	by PRT

1602245-03 (B)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-03 (C)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-03 (D)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-03RE1 (D)	*Out*	*In*
VOA Storage	12/7/16 16:08 by SG	by SG

1602245-04 (A)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
Metals	12/8/16 8:40 by PRT	by PRT

1602245-04 (B)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-04 (C)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-04 (D)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-04RE1 (D)	*Out*	*In*
VOA Storage	12/7/16 14:17 by SG	12/7/16 15:55 by SG
VOA Storage	12/7/16 15:55 by SG	by SG

1602245-05 (A)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC

Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
1602245-05 (B)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-05 (C)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-05 (D)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-06 (A)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
Metals	12/8/16 8:40 by PRT	by PRT
1602245-06 (B)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-06 (C)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-06 (D)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-06RE1 (A)	*Out*	*In*
Walk-In Storage	12/6/16 15:37 by ARS	12/7/16 15:32 by ARS
Walk-In Storage	12/7/16 15:32 by DSM	by DSM
1602245-07 (A)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
1602245-07 (B)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-07 (C)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-07 (D)	*Out*	*In*

START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-08 (A)	*Out*	*In*
START	12/2/16 16:49 by KMC	12/2/16 16:49 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
Metals	12/8/16 8:40 by PRT	by PRT
1602245-08 (B)	*Out*	*In*
START	12/2/16 16:49 by KMC	12/2/16 16:49 by KMC
1602245-08 (C)	*Out*	*In*
START	12/2/16 16:49 by KMC	12/2/16 16:49 by KMC
1602245-08 (D)	*Out*	*In*
START	12/2/16 16:49 by KMC	12/2/16 16:49 by KMC

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1602245**

Received: 12/2/16 16:45

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Sean Harrison
EMAIL FOR INVOICE:	sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1602245
P.O. #	10BR188

ANALYSIS

PRES. CODE → 5 5 5
CONT. CODE → E G G

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-34	12/2/16 1415	S	3	4	G	X	X	X	-01
EP-35	1424		3						-02
EP-36	1432		4						-03
EP-37	1440		5						-04
EP-38	1455		4						-05
EP-39	1505		5						-06
EP-40	1510		6						-07
DUP-2	1520		6			X	X	X	-08

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE

PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER

TURNAROUND TIME: (CIRCLE ONE)	STANDARD	5 DAY	72 HRS. (IF BLANK STANDARD WILL APPLY)	48 HRS.	24 HRS.	OTHER X
REPORT TYPE:	RESULTS ONLY	REDUCED	FULL X	EDD	EXCEL SPREADSHEET	

COMMENTS: 3 DAY TAT on Results, 5 DAY TAT for CATB Report. NYSDEC Catagory B data deliverables.

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Rachael Barr SIGN:

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Rachael Barr	Print Name: K. Muniz	Print Name:	Print Name:
Signature:	Signature: K Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 12/2/16	Time: 1645	Date Received: / /	Time:
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-34	1602245-01	Soil	12/02/2016 14:15	12/02/2016 16:45
EP-35	1602245-02	Soil	12/02/2016 14:24	12/02/2016 16:45
EP-36	1602245-03	Soil	12/02/2016 14:32	12/02/2016 16:45
EP-37	1602245-04	Soil	12/02/2016 14:40	12/02/2016 16:45
EP-38	1602245-05	Soil	12/02/2016 14:55	12/02/2016 16:45
EP-39	1602245-06	Soil	12/02/2016 15:05	12/02/2016 16:45
EP-40	1602245-07	Soil	12/02/2016 15:10	12/02/2016 16:45
DUP-2	1602245-08	Soil	12/02/2016 15:20	12/02/2016 16:45

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

PEST/PCB

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23708.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:30
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.831	0.831	U
319-85-7	beta-BHC	ND	0.831	0.831	U
319-86-8	delta-BHC	ND	0.831	0.831	U
58-89-9	gamma-BHC [Lindane]	ND	0.831	0.831	U
76-44-8	Heptachlor	ND	0.831	0.831	U
309-00-2	Aldrin	ND	0.831	0.831	U
1024-57-3	Heptachlor Epoxide	ND	0.831	0.831	U
959-98-8	Endosulfan I	ND	0.831	0.831	U
60-57-1	Dieldrin	ND	1.68	1.68	U
72-55-9	4,4'-DDE	ND	1.68	1.68	U
72-20-8	Endrin	ND	1.68	1.68	U
33213-65-9	Endosulfan II	ND	1.68	1.68	U
72-54-8	4,4'-DDD	ND	1.68	1.68	U
1031-07-8	Endosulfan sulfate	ND	1.68	1.68	U
50-29-3	4,4'-DDT	ND	1.68	1.68	U
72-43-5	Methoxychlor	ND	2.52	8.39	U
53494-70-5	Endrin ketone	ND	1.68	1.68	U
7421-93-4	Endrin aldehyde	ND	1.68	1.68	U
5103-71-9	alpha-Chlordane	ND	0.831	0.831	U
5566-34-7	gamma-Chlordane	ND	0.831	0.831	U
8001-35-2	Toxaphene	ND	41.9	41.9	U
12674-11-2	Aroclor-1016	ND	20.9	41.9	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23708.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:30
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.9	41.9	U
11141-16-5	Aroclor-1232	ND	20.9	41.9	U
53469-21-9	Aroclor-1242	ND	20.9	41.9	U
12672-29-6	Aroclor-1248	ND	20.9	41.9	U
11097-69-1	Aroclor-1254	ND	20.9	41.9	U
11096-82-5	Aroclor-1260	ND	20.9	41.9	U
37324-23-5	Aroclor-1262	ND	20.9	41.9	U
11100-14-4	Aroclor-1268	ND	20.9	41.9	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	67.3%	30-150
Tetrachloro-m-xylene [2C]	74.8%	30-150
Decachlorobiphenyl	70.1%	30-150
Decachlorobiphenyl [2C]	99.6%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B	File ID:	A23709.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:59
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.860	0.860	U
319-85-7	beta-BHC	ND	0.860	0.860	U
319-86-8	delta-BHC	ND	0.860	0.860	U
58-89-9	gamma-BHC [Lindane]	ND	0.860	0.860	U
76-44-8	Heptachlor	ND	0.860	0.860	U
309-00-2	Aldrin	ND	0.860	0.860	U
1024-57-3	Heptachlor Epoxide	ND	0.860	0.860	U
959-98-8	Endosulfan I	ND	0.860	0.860	U
60-57-1	Dieldrin	ND	1.73	1.73	U
72-55-9	4,4'-DDE	ND	1.73	1.73	U
72-20-8	Endrin	ND	1.73	1.73	U
33213-65-9	Endosulfan II	ND	1.73	1.73	U
72-54-8	4,4'-DDD	ND	1.73	1.73	U
1031-07-8	Endosulfan sulfate	ND	1.73	1.73	U
50-29-3	4,4'-DDT	ND	1.73	1.73	U
72-43-5	Methoxychlor	ND	2.61	8.68	U
53494-70-5	Endrin ketone	ND	1.73	1.73	U
7421-93-4	Endrin aldehyde	ND	1.73	1.73	U
5103-71-9	alpha-Chlordane	ND	0.860	0.860	U
5566-34-7	gamma-Chlordane	ND	0.860	0.860	U
8001-35-2	Toxaphene	ND	43.4	43.4	U
12674-11-2	Aroclor-1016	ND	21.6	43.4	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B	File ID:	A23709.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:59
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	21.6	43.4	U
11141-16-5	Aroclor-1232	ND	21.6	43.4	U
53469-21-9	Aroclor-1242	ND	21.6	43.4	U
12672-29-6	Aroclor-1248	ND	21.6	43.4	U
11097-69-1	Aroclor-1254	ND	21.6	43.4	U
11096-82-5	Aroclor-1260	ND	21.6	43.4	U
37324-23-5	Aroclor-1262	ND	21.6	43.4	U
11100-14-4	Aroclor-1268	ND	21.6	43.4	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	65.2%	30-150
Tetrachloro-m-xylene [2C]	69.3%	30-150
Decachlorobiphenyl	71.5%	30-150
Decachlorobiphenyl [2C]	90.7%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23710.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:28
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.831	0.831	U
319-85-7	beta-BHC	ND	0.831	0.831	U
319-86-8	delta-BHC	ND	0.831	0.831	U
58-89-9	gamma-BHC [Lindane]	ND	0.831	0.831	U
76-44-8	Heptachlor	ND	0.831	0.831	U
309-00-2	Aldrin	ND	0.831	0.831	U
1024-57-3	Heptachlor Epoxide	ND	0.831	0.831	U
959-98-8	Endosulfan I	ND	0.831	0.831	U
60-57-1	Dieldrin	ND	1.68	1.68	U
72-55-9	4,4'-DDE	ND	1.68	1.68	U
72-20-8	Endrin	ND	1.68	1.68	U
33213-65-9	Endosulfan II	ND	1.68	1.68	U
72-54-8	4,4'-DDD	ND	1.68	1.68	U
1031-07-8	Endosulfan sulfate	ND	1.68	1.68	U
50-29-3	4,4'-DDT	ND	1.68	1.68	U
72-43-5	Methoxychlor	ND	2.52	8.39	U
53494-70-5	Endrin ketone	ND	1.68	1.68	U
7421-93-4	Endrin aldehyde	ND	1.68	1.68	U
5103-71-9	alpha-Chlordane	ND	0.831	0.831	U
5566-34-7	gamma-Chlordane	ND	0.831	0.831	U
8001-35-2	Toxaphene	ND	41.9	41.9	U
12674-11-2	Aroclor-1016	ND	20.9	41.9	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23710.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:28
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.9	41.9	U
11141-16-5	Aroclor-1232	ND	20.9	41.9	U
53469-21-9	Aroclor-1242	ND	20.9	41.9	U
12672-29-6	Aroclor-1248	ND	20.9	41.9	U
11097-69-1	Aroclor-1254	ND	20.9	41.9	U
11096-82-5	Aroclor-1260	ND	20.9	41.9	U
37324-23-5	Aroclor-1262	ND	20.9	41.9	U
11100-14-4	Aroclor-1268	ND	20.9	41.9	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	61.7%	30-150
Tetrachloro-m-xylene [2C]	69.5%	30-150
Decachlorobiphenyl	67.0%	30-150
Decachlorobiphenyl [2C]	92.0%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B	File ID:	A23711.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:58
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.825	0.825	U
319-85-7	beta-BHC	ND	0.825	0.825	U
319-86-8	delta-BHC	ND	0.825	0.825	U
58-89-9	gamma-BHC [Lindane]	ND	0.825	0.825	U
76-44-8	Heptachlor	ND	0.825	0.825	U
309-00-2	Aldrin	ND	0.825	0.825	U
1024-57-3	Heptachlor Epoxide	ND	0.825	0.825	U
959-98-8	Endosulfan I	ND	0.825	0.825	U
60-57-1	Dieldrin	ND	1.66	1.66	U
72-55-9	4,4'-DDE	ND	1.66	1.66	U
72-20-8	Endrin	ND	1.66	1.66	U
33213-65-9	Endosulfan II	ND	1.66	1.66	U
72-54-8	4,4'-DDD	ND	1.66	1.66	U
1031-07-8	Endosulfan sulfate	ND	1.66	1.66	U
50-29-3	4,4'-DDT	ND	1.66	1.66	U
72-43-5	Methoxychlor	ND	2.50	8.32	U
53494-70-5	Endrin ketone	ND	1.66	1.66	U
7421-93-4	Endrin aldehyde	ND	1.66	1.66	U
5103-71-9	alpha-Chlordane	ND	0.825	0.825	U
5566-34-7	gamma-Chlordane	ND	0.825	0.825	U
8001-35-2	Toxaphene	ND	41.6	41.6	U
12674-11-2	Aroclor-1016	ND	20.8	41.6	U

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ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B	File ID:	A23711.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:58
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.8	41.6	U
11141-16-5	Aroclor-1232	ND	20.8	41.6	U
53469-21-9	Aroclor-1242	ND	20.8	41.6	U
12672-29-6	Aroclor-1248	ND	20.8	41.6	U
11097-69-1	Aroclor-1254	ND	20.8	41.6	U
11096-82-5	Aroclor-1260	ND	20.8	41.6	U
37324-23-5	Aroclor-1262	ND	20.8	41.6	U
11100-14-4	Aroclor-1268	ND	20.8	41.6	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	63.5%	30-150
Tetrachloro-m-xylene [2C]	71.6%	30-150
Decachlorobiphenyl	69.5%	30-150
Decachlorobiphenyl [2C]	90.8%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B	File ID:	A23712.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:27
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.793	0.793	U
319-85-7	beta-BHC	ND	0.793	0.793	U
319-86-8	delta-BHC	ND	0.793	0.793	U
58-89-9	gamma-BHC [Lindane]	ND	0.793	0.793	U
76-44-8	Heptachlor	ND	0.793	0.793	U
309-00-2	Aldrin	ND	0.793	0.793	U
1024-57-3	Heptachlor Epoxide	ND	0.793	0.793	U
959-98-8	Endosulfan I	ND	0.793	0.793	U
60-57-1	Dieldrin	ND	1.60	1.60	U
72-55-9	4,4'-DDE	ND	1.60	1.60	U
72-20-8	Endrin	ND	1.60	1.60	U
33213-65-9	Endosulfan II	ND	1.60	1.60	U
72-54-8	4,4'-DDD	ND	1.60	1.60	U
1031-07-8	Endosulfan sulfate	ND	1.60	1.60	U
50-29-3	4,4'-DDT	ND	1.60	1.60	U
72-43-5	Methoxychlor	ND	2.40	8.00	U
53494-70-5	Endrin ketone	ND	1.60	1.60	U
7421-93-4	Endrin aldehyde	ND	1.60	1.60	U
5103-71-9	alpha-Chlordane	ND	0.793	0.793	U
5566-34-7	gamma-Chlordane	ND	0.793	0.793	U
8001-35-2	Toxaphene	ND	40.0	40.0	U
12674-11-2	Aroclor-1016	ND	20.0	40.0	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B	File ID:	A23712.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:27
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.0	40.0	U
11141-16-5	Aroclor-1232	ND	20.0	40.0	U
53469-21-9	Aroclor-1242	ND	20.0	40.0	U
12672-29-6	Aroclor-1248	ND	20.0	40.0	U
11097-69-1	Aroclor-1254	ND	20.0	40.0	U
11096-82-5	Aroclor-1260	ND	20.0	40.0	U
37324-23-5	Aroclor-1262	ND	20.0	40.0	U
11100-14-4	Aroclor-1268	ND	20.0	40.0	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	76.7%	30-150
Tetrachloro-m-xylene [2C]	91.1%	30-150
Decachlorobiphenyl	83.5%	30-150
Decachlorobiphenyl [2C]	84.7%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B	File ID:	A23713.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:56
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.806	0.806	U
319-85-7	beta-BHC	ND	0.806	0.806	U
319-86-8	delta-BHC	ND	0.806	0.806	U
58-89-9	gamma-BHC [Lindane]	ND	0.806	0.806	U
76-44-8	Heptachlor	ND	0.806	0.806	U
309-00-2	Aldrin	ND	0.806	0.806	U
1024-57-3	Heptachlor Epoxide	ND	0.806	0.806	U
959-98-8	Endosulfan I	ND	0.806	0.806	U
60-57-1	Dieldrin	ND	1.62	1.62	U
72-55-9	4,4'-DDE	ND	1.62	1.62	U
72-20-8	Endrin	ND	1.62	1.62	U
33213-65-9	Endosulfan II	ND	1.62	1.62	U
72-54-8	4,4'-DDD	ND	1.62	1.62	U
1031-07-8	Endosulfan sulfate	ND	1.62	1.62	U
50-29-3	4,4'-DDT	ND	1.62	1.62	U
72-43-5	Methoxychlor	ND	2.44	8.13	U
53494-70-5	Endrin ketone	ND	1.62	1.62	U
7421-93-4	Endrin aldehyde	ND	1.62	1.62	U
5103-71-9	alpha-Chlordane	ND	0.806	0.806	U
5566-34-7	gamma-Chlordane	ND	0.806	0.806	U
8001-35-2	Toxaphene	ND	40.7	40.7	U
12674-11-2	Aroclor-1016	ND	20.3	40.7	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B	File ID:	A23713.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:56
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.3	40.7	U
11141-16-5	Aroclor-1232	ND	20.3	40.7	U
53469-21-9	Aroclor-1242	ND	20.3	40.7	U
12672-29-6	Aroclor-1248	ND	20.3	40.7	U
11097-69-1	Aroclor-1254	ND	20.3	40.7	U
11096-82-5	Aroclor-1260	ND	20.3	40.7	U
37324-23-5	Aroclor-1262	ND	20.3	40.7	U
11100-14-4	Aroclor-1268	ND	20.3	40.7	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	63.9%	30-150
Tetrachloro-m-xylene [2C]	70.8%	30-150
Decachlorobiphenyl	67.2%	30-150
Decachlorobiphenyl [2C]	76.5%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B	File ID:	A23729.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 16:48
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.758	0.758	U
319-85-7	beta-BHC	ND	0.758	0.758	U
319-86-8	delta-BHC	ND	0.758	0.758	U
58-89-9	gamma-BHC [Lindane]	ND	0.758	0.758	U
76-44-8	Heptachlor	ND	0.758	0.758	U
309-00-2	Aldrin	ND	0.758	0.758	U
1024-57-3	Heptachlor Epoxide	ND	0.758	0.758	U
959-98-8	Endosulfan I	ND	0.758	0.758	U
60-57-1	Dieldrin	ND	1.53	1.53	U
72-55-9	4,4'-DDE	ND	1.53	1.53	U
72-20-8	Endrin	ND	1.53	1.53	U
33213-65-9	Endosulfan II	ND	1.53	1.53	U
72-54-8	4,4'-DDD	ND	1.53	1.53	U
1031-07-8	Endosulfan sulfate	ND	1.53	1.53	U
50-29-3	4,4'-DDT	ND	1.53	1.53	U
72-43-5	Methoxychlor	ND	2.30	7.65	U
53494-70-5	Endrin ketone	ND	1.53	1.53	U
7421-93-4	Endrin aldehyde	ND	1.53	1.53	U
5103-71-9	alpha-Chlordane	ND	0.758	0.758	U
5566-34-7	gamma-Chlordane	ND	0.758	0.758	U
8001-35-2	Toxaphene	ND	38.2	38.2	U
12674-11-2	Aroclor-1016	ND	19.1	38.2	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B	File ID:	A23729.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 16:48
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.1	38.2	U
11141-16-5	Aroclor-1232	ND	19.1	38.2	U
53469-21-9	Aroclor-1242	ND	19.1	38.2	U
12672-29-6	Aroclor-1248	ND	19.1	38.2	U
11097-69-1	Aroclor-1254	ND	19.1	38.2	U
11096-82-5	Aroclor-1260	ND	19.1	38.2	U
37324-23-5	Aroclor-1262	ND	19.1	38.2	U
11100-14-4	Aroclor-1268	ND	19.1	38.2	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	73.8%	30-150
Tetrachloro-m-xylene [2C]	89.3%	30-150
Decachlorobiphenyl	92.3%	30-150
Decachlorobiphenyl [2C]	127%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B	File ID:	A23730.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 17:17
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.767	0.767	U
319-85-7	beta-BHC	ND	0.767	0.767	U
319-86-8	delta-BHC	ND	0.767	0.767	U
58-89-9	gamma-BHC [Lindane]	ND	0.767	0.767	U
76-44-8	Heptachlor	ND	0.767	0.767	U
309-00-2	Aldrin	ND	0.767	0.767	U
1024-57-3	Heptachlor Epoxide	ND	0.767	0.767	U
959-98-8	Endosulfan I	ND	0.767	0.767	U
60-57-1	Dieldrin	ND	1.54	1.54	U
72-55-9	4,4'-DDE	ND	1.54	1.54	U
72-20-8	Endrin	ND	1.54	1.54	U
33213-65-9	Endosulfan II	ND	1.54	1.54	U
72-54-8	4,4'-DDD	ND	1.54	1.54	U
1031-07-8	Endosulfan sulfate	ND	1.54	1.54	U
50-29-3	4,4'-DDT	ND	1.54	1.54	U
72-43-5	Methoxychlor	ND	2.32	7.74	U
53494-70-5	Endrin ketone	ND	1.54	1.54	U
7421-93-4	Endrin aldehyde	ND	1.54	1.54	U
5103-71-9	alpha-Chlordane	ND	0.767	0.767	U
5566-34-7	gamma-Chlordane	ND	0.767	0.767	U
8001-35-2	Toxaphene	ND	38.7	38.7	U
12674-11-2	Aroclor-1016	ND	19.3	38.7	U

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ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B	File ID:	A23730.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 17:17
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.3	38.7	U
11141-16-5	Aroclor-1232	ND	19.3	38.7	U
53469-21-9	Aroclor-1242	ND	19.3	38.7	U
12672-29-6	Aroclor-1248	ND	19.3	38.7	U
11097-69-1	Aroclor-1254	ND	19.3	38.7	U
11096-82-5	Aroclor-1260	ND	19.3	38.7	U
37324-23-5	Aroclor-1262	ND	19.3	38.7	U
11100-14-4	Aroclor-1268	ND	19.3	38.7	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	76.6%	30-150
Tetrachloro-m-xylene [2C]	92.5%	30-150
Decachlorobiphenyl	94.1%	30-150
Decachlorobiphenyl [2C]	114%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

SEMIVOLATILES

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4289.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 20:20
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	41.9	210	U
108-95-2	Phenol	ND	41.9	210	U
111-44-4	bis(2-chloroethyl)ether	ND	41.9	210	U
95-57-8	2-Chlorophenol	ND	41.9	210	U
541-73-1	1,3-Dichlorobenzene	ND	41.9	210	U
106-46-7	1,4-Dichlorobenzene	ND	41.9	210	U
100-51-6	Benzyl alcohol	ND	41.9	210	U
95-50-1	1,2-Dichlorobenzene	ND	41.9	210	U
95-48-7	2-Methylphenol	ND	41.9	210	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	41.9	210	U
106-44-5	3 & 4-Methylphenol	ND	41.9	210	U
621-64-7	N-Nitroso-di-n-propylamine	ND	41.9	210	U
67-72-1	Hexachloroethane	ND	41.9	210	U
98-95-3	Nitrobenzene	ND	41.9	210	U
78-59-1	Isophorone	ND	41.9	210	U
88-75-5	2-Nitrophenol	ND	41.9	210	U
105-67-9	2,4-Dimethylphenol	ND	41.9	210	U
65-85-0	Benzoic acid	ND	105	419	U
111-91-1	bis(2-chloroethoxy)methane	ND	41.9	210	U
120-83-2	2,4-Dichlorophenol	ND	41.9	210	U
120-82-1	1,2,4-Trichlorobenzene	ND	41.9	210	U
91-20-3	Naphthalene	ND	41.9	210	U
106-47-8	4-Chloroaniline	ND	41.9	210	U
87-68-3	Hexachlorobutadiene	ND	41.9	210	U
59-50-7	4-Chloro-3-methylphenol	ND	41.9	210	U
91-57-6	2-Methylnaphthylene	ND	41.9	210	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4289.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 20:20
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	41.9	210	U
88-06-2	2,4,6-Trichlorophenol	ND	41.9	210	U
95-95-4	2,4,5-Trichlorophenol	ND	41.9	210	U
91-58-7	2-Chloronaphthalene	ND	41.9	210	U
88-74-4	2-Nitroaniline	ND	41.9	210	U
131-11-3	Dimethylphthalate	ND	41.9	210	U
208-96-8	Acenaphthylene	ND	41.9	210	U
99-09-2	3-Nitroaniline	ND	41.9	210	U
83-32-9	Acenaphthene	48.4	41.9	210	J
51-28-5	2,4-Dinitrophenol	ND	41.9	419	U
100-02-7	4-Nitrophenol	ND	41.9	210	U
132-64-9	Dibenzofuran	ND	41.9	210	U
606-20-2	2,6-Dinitrotoluene	ND	41.9	210	U
121-14-2	2,4-Dinitrotoluene	ND	41.9	210	U
84-66-2	Diethyl phthalate	ND	41.9	210	U
7005-72-3	4-Chlorophenyl-phenylether	ND	41.9	210	U
86-73-7	Fluorene	61.0	41.9	210	J
100-01-6	4-Nitroaniline	ND	41.9	210	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	41.9	210	U
86-30-6	N-Nitrosodiphenylamine	ND	41.9	210	U
101-55-3	4-Bromophenyl-phenylether	ND	41.9	210	U
118-74-1	Hexachlorobenzene	ND	41.9	210	U
87-86-5	Pentachlorophenol	ND	41.9	210	U
85-01-8	Phenanthrene	666	41.9	210	
120-12-7	Anthracene	133	41.9	210	J
84-74-2	Di-n-butyl phthalate	ND	41.9	210	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4289.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 20:20
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	924	41.9	210	
129-00-0	Pyrene	820	41.9	210	
85-68-7	Butylbenzylphthalate	ND	41.9	210	U
91-94-1	3,3'-Dichlorobenzidine	ND	105	210	U
56-55-3	Benzo[a]anthracene	390	41.9	210	
117-81-7	bis(2-ethylhexyl)phthalate	ND	41.9	210	U
218-01-9	Chrysene	403	41.9	210	
117-84-0	Di-n-octyl phthalate	ND	41.9	210	U
205-99-2	Benzo[b]fluoranthene	643	41.9	210	
207-08-9	Benzo[k]fluoranthene	198	41.9	210	J
50-32-8	Benzo[a]pyrene	386	41.9	210	
193-39-5	Indeno(1,2,3-cd)pyrene	83.5	41.9	210	J
53-70-3	Dibenzo(a,h)anthracene	ND	41.9	210	U
191-24-2	Benzo[ghi]perylene	75.9	41.9	210	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	54%	30-130
Phenol-d5	64%	30-130
Nitrobenzene-d5	73%	30-130
2-Fluorobiphenyl	71%	30-130
2,4,6-Tribromophenol	74%	30-130
Terphenyl-d14	89%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B GCMS	File ID:	B4283.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:54
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	43.4	218	U
108-95-2	Phenol	ND	43.4	218	U
111-44-4	bis(2-chloroethyl)ether	ND	43.4	218	U
95-57-8	2-Chlorophenol	ND	43.4	218	U
541-73-1	1,3-Dichlorobenzene	ND	43.4	218	U
106-46-7	1,4-Dichlorobenzene	ND	43.4	218	U
100-51-6	Benzyl alcohol	ND	43.4	218	U
95-50-1	1,2-Dichlorobenzene	ND	43.4	218	U
95-48-7	2-Methylphenol	ND	43.4	218	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	43.4	218	U
106-44-5	3 & 4-Methylphenol	ND	43.4	218	U
621-64-7	N-Nitroso-di-n-propylamine	ND	43.4	218	U
67-72-1	Hexachloroethane	ND	43.4	218	U
98-95-3	Nitrobenzene	ND	43.4	218	U
78-59-1	Isophorone	ND	43.4	218	U
88-75-5	2-Nitrophenol	ND	43.4	218	U
105-67-9	2,4-Dimethylphenol	ND	43.4	218	U
65-85-0	Benzoic acid	ND	108	434	U
111-91-1	bis(2-chloroethoxy)methane	ND	43.4	218	U
120-83-2	2,4-Dichlorophenol	ND	43.4	218	U
120-82-1	1,2,4-Trichlorobenzene	ND	43.4	218	U
91-20-3	Naphthalene	47.2	43.4	218	J
106-47-8	4-Chloroaniline	ND	43.4	218	U
87-68-3	Hexachlorobutadiene	ND	43.4	218	U
59-50-7	4-Chloro-3-methylphenol	ND	43.4	218	U
91-57-6	2-Methylnaphthylene	ND	43.4	218	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B GCMS	File ID:	B4283.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:54
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	43.4	218	U
88-06-2	2,4,6-Trichlorophenol	ND	43.4	218	U
95-95-4	2,4,5-Trichlorophenol	ND	43.4	218	U
91-58-7	2-Chloronaphthalene	ND	43.4	218	U
88-74-4	2-Nitroaniline	ND	43.4	218	U
131-11-3	Dimethylphthalate	ND	43.4	218	U
208-96-8	Acenaphthylene	ND	43.4	218	U
99-09-2	3-Nitroaniline	ND	43.4	218	U
83-32-9	Acenaphthene	ND	43.4	218	U
51-28-5	2,4-Dinitrophenol	ND	43.4	434	U
100-02-7	4-Nitrophenol	ND	43.4	218	U
132-64-9	Dibenzofuran	ND	43.4	218	U
606-20-2	2,6-Dinitrotoluene	ND	43.4	218	U
121-14-2	2,4-Dinitrotoluene	ND	43.4	218	U
84-66-2	Diethyl phthalate	ND	43.4	218	U
7005-72-3	4-Chlorophenyl-phenylether	ND	43.4	218	U
86-73-7	Fluorene	51.5	43.4	218	J
100-01-6	4-Nitroaniline	ND	43.4	218	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	43.4	218	U
86-30-6	N-Nitrosodiphenylamine	ND	43.4	218	U
101-55-3	4-Bromophenyl-phenylether	ND	43.4	218	U
118-74-1	Hexachlorobenzene	ND	43.4	218	U
87-86-5	Pentachlorophenol	ND	43.4	218	U
85-01-8	Phenanthrene	512	43.4	218	
120-12-7	Anthracene	107	43.4	218	J
84-74-2	Di-n-butyl phthalate	ND	43.4	218	U

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ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B GCMS	File ID:	B4283.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:54
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	572	43.4	218	
129-00-0	Pyrene	452	43.4	218	
85-68-7	Butylbenzylphthalate	ND	43.4	218	U
91-94-1	3,3'-Dichlorobenzidine	ND	108	218	U
56-55-3	Benzo[a]anthracene	221	43.4	218	
117-81-7	bis(2-ethylhexyl)phthalate	ND	43.4	218	U
218-01-9	Chrysene	237	43.4	218	
117-84-0	Di-n-octyl phthalate	ND	43.4	218	U
205-99-2	Benzo[b]fluoranthene	263	43.4	218	
207-08-9	Benzo[k]fluoranthene	84.4	43.4	218	J
50-32-8	Benzo[a]pyrene	210	43.4	218	J
193-39-5	Indeno(1,2,3-cd)pyrene	88.4	43.4	218	J
53-70-3	Dibenzo(a,h)anthracene	ND	43.4	218	U
191-24-2	Benzo[ghi]perylene	99.9	43.4	218	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	43%	30-130
Phenol-d5	47%	30-130
Nitrobenzene-d5	52%	30-130
2-Fluorobiphenyl	52%	30-130
2,4,6-Tribromophenol	67%	30-130
Terphenyl-d14	64%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4284.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 16:39
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	41.9	210	U
108-95-2	Phenol	ND	41.9	210	U
111-44-4	bis(2-chloroethyl)ether	ND	41.9	210	U
95-57-8	2-Chlorophenol	ND	41.9	210	U
541-73-1	1,3-Dichlorobenzene	ND	41.9	210	U
106-46-7	1,4-Dichlorobenzene	ND	41.9	210	U
100-51-6	Benzyl alcohol	ND	41.9	210	U
95-50-1	1,2-Dichlorobenzene	ND	41.9	210	U
95-48-7	2-Methylphenol	ND	41.9	210	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	41.9	210	U
106-44-5	3 & 4-Methylphenol	ND	41.9	210	U
621-64-7	N-Nitroso-di-n-propylamine	ND	41.9	210	U
67-72-1	Hexachloroethane	ND	41.9	210	U
98-95-3	Nitrobenzene	ND	41.9	210	U
78-59-1	Isophorone	ND	41.9	210	U
88-75-5	2-Nitrophenol	ND	41.9	210	U
105-67-9	2,4-Dimethylphenol	ND	41.9	210	U
65-85-0	Benzoic acid	ND	105	419	U
111-91-1	bis(2-chloroethoxy)methane	ND	41.9	210	U
120-83-2	2,4-Dichlorophenol	ND	41.9	210	U
120-82-1	1,2,4-Trichlorobenzene	ND	41.9	210	U
91-20-3	Naphthalene	ND	41.9	210	U
106-47-8	4-Chloroaniline	ND	41.9	210	U
87-68-3	Hexachlorobutadiene	ND	41.9	210	U
59-50-7	4-Chloro-3-methylphenol	ND	41.9	210	U
91-57-6	2-Methylnaphthylene	ND	41.9	210	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4284.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 16:39
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	41.9	210	U
88-06-2	2,4,6-Trichlorophenol	ND	41.9	210	U
95-95-4	2,4,5-Trichlorophenol	ND	41.9	210	U
91-58-7	2-Chloronaphthalene	ND	41.9	210	U
88-74-4	2-Nitroaniline	ND	41.9	210	U
131-11-3	Dimethylphthalate	ND	41.9	210	U
208-96-8	Acenaphthylene	ND	41.9	210	U
99-09-2	3-Nitroaniline	ND	41.9	210	U
83-32-9	Acenaphthene	85.2	41.9	210	J
51-28-5	2,4-Dinitrophenol	ND	41.9	419	U
100-02-7	4-Nitrophenol	ND	41.9	210	U
132-64-9	Dibenzofuran	55.5	41.9	210	J
606-20-2	2,6-Dinitrotoluene	ND	41.9	210	U
121-14-2	2,4-Dinitrotoluene	ND	41.9	210	U
84-66-2	Diethyl phthalate	ND	41.9	210	U
7005-72-3	4-Chlorophenyl-phenylether	ND	41.9	210	U
86-73-7	Fluorene	89.1	41.9	210	J
100-01-6	4-Nitroaniline	ND	41.9	210	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	41.9	210	U
86-30-6	N-Nitrosodiphenylamine	ND	41.9	210	U
101-55-3	4-Bromophenyl-phenylether	ND	41.9	210	U
118-74-1	Hexachlorobenzene	ND	41.9	210	U
87-86-5	Pentachlorophenol	ND	41.9	210	U
85-01-8	Phenanthrene	965	41.9	210	
120-12-7	Anthracene	192	41.9	210	J
84-74-2	Di-n-butyl phthalate	ND	41.9	210	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4284.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 16:39
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	1030	41.9	210	
129-00-0	Pyrene	811	41.9	210	
85-68-7	Butylbenzylphthalate	ND	41.9	210	U
91-94-1	3,3'-Dichlorobenzidine	ND	105	210	U
56-55-3	Benzo[a]anthracene	406	41.9	210	
117-81-7	bis(2-ethylhexyl)phthalate	ND	41.9	210	U
218-01-9	Chrysene	415	41.9	210	
117-84-0	Di-n-octyl phthalate	ND	41.9	210	U
205-99-2	Benzo[b]fluoranthene	453	41.9	210	
207-08-9	Benzo[k]fluoranthene	146	41.9	210	J
50-32-8	Benzo[a]pyrene	348	41.9	210	
193-39-5	Indeno(1,2,3-cd)pyrene	116	41.9	210	J
53-70-3	Dibenzo(a,h)anthracene	ND	41.9	210	U
191-24-2	Benzo[ghi]perylene	118	41.9	210	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	44%	30-130
Phenol-d5	49%	30-130
Nitrobenzene-d5	52%	30-130
2-Fluorobiphenyl	51%	30-130
2,4,6-Tribromophenol	68%	30-130
Terphenyl-d14	61%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B GCMS	File ID:	B4285.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 17:23
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	41.6	209	U
108-95-2	Phenol	ND	41.6	209	U
111-44-4	bis(2-chloroethyl)ether	ND	41.6	209	U
95-57-8	2-Chlorophenol	ND	41.6	209	U
541-73-1	1,3-Dichlorobenzene	ND	41.6	209	U
106-46-7	1,4-Dichlorobenzene	ND	41.6	209	U
100-51-6	Benzyl alcohol	ND	41.6	209	U
95-50-1	1,2-Dichlorobenzene	ND	41.6	209	U
95-48-7	2-Methylphenol	ND	41.6	209	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	41.6	209	U
106-44-5	3 & 4-Methylphenol	ND	41.6	209	U
621-64-7	N-Nitroso-di-n-propylamine	ND	41.6	209	U
67-72-1	Hexachloroethane	ND	41.6	209	U
98-95-3	Nitrobenzene	ND	41.6	209	U
78-59-1	Isophorone	ND	41.6	209	U
88-75-5	2-Nitrophenol	ND	41.6	209	U
105-67-9	2,4-Dimethylphenol	ND	41.6	209	U
65-85-0	Benzoic acid	ND	104	416	U
111-91-1	bis(2-chloroethoxy)methane	ND	41.6	209	U
120-83-2	2,4-Dichlorophenol	ND	41.6	209	U
120-82-1	1,2,4-Trichlorobenzene	ND	41.6	209	U
91-20-3	Naphthalene	ND	41.6	209	U
106-47-8	4-Chloroaniline	ND	41.6	209	U
87-68-3	Hexachlorobutadiene	ND	41.6	209	U
59-50-7	4-Chloro-3-methylphenol	ND	41.6	209	U
91-57-6	2-Methylnaphthylene	ND	41.6	209	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B GCMS	File ID:	B4285.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 17:23
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	41.6	209	U
88-06-2	2,4,6-Trichlorophenol	ND	41.6	209	U
95-95-4	2,4,5-Trichlorophenol	ND	41.6	209	U
91-58-7	2-Chloronaphthalene	ND	41.6	209	U
88-74-4	2-Nitroaniline	ND	41.6	209	U
131-11-3	Dimethylphthalate	ND	41.6	209	U
208-96-8	Acenaphthylene	ND	41.6	209	U
99-09-2	3-Nitroaniline	ND	41.6	209	U
83-32-9	Acenaphthene	ND	41.6	209	U
51-28-5	2,4-Dinitrophenol	ND	41.6	416	U
100-02-7	4-Nitrophenol	ND	41.6	209	U
132-64-9	Dibenzofuran	ND	41.6	209	U
606-20-2	2,6-Dinitrotoluene	ND	41.6	209	U
121-14-2	2,4-Dinitrotoluene	ND	41.6	209	U
84-66-2	Diethyl phthalate	ND	41.6	209	U
7005-72-3	4-Chlorophenyl-phenylether	ND	41.6	209	U
86-73-7	Fluorene	46.8	41.6	209	J
100-01-6	4-Nitroaniline	ND	41.6	209	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	41.6	209	U
86-30-6	N-Nitrosodiphenylamine	ND	41.6	209	U
101-55-3	4-Bromophenyl-phenylether	ND	41.6	209	U
118-74-1	Hexachlorobenzene	ND	41.6	209	U
87-86-5	Pentachlorophenol	ND	41.6	209	U
85-01-8	Phenanthrene	438	41.6	209	
120-12-7	Anthracene	92.2	41.6	209	J
84-74-2	Di-n-butyl phthalate	ND	41.6	209	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B GCMS	File ID:	B4285.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 17:23
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	530	41.6	209	
129-00-0	Pyrene	407	41.6	209	
85-68-7	Butylbenzylphthalate	ND	41.6	209	U
91-94-1	3,3'-Dichlorobenzidine	ND	104	209	U
56-55-3	Benzo[a]anthracene	209	41.6	209	
117-81-7	bis(2-ethylhexyl)phthalate	ND	41.6	209	U
218-01-9	Chrysene	218	41.6	209	
117-84-0	Di-n-octyl phthalate	ND	41.6	209	U
205-99-2	Benzo[b]fluoranthene	256	41.6	209	
207-08-9	Benzo[k]fluoranthene	85.6	41.6	209	J
50-32-8	Benzo[a]pyrene	202	41.6	209	J
193-39-5	Indeno(1,2,3-cd)pyrene	72.1	41.6	209	J
53-70-3	Dibenzo(a,h)anthracene	ND	41.6	209	U
191-24-2	Benzo[ghi]perylene	70.6	41.6	209	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	51%	30-130
Phenol-d5	57%	30-130
Nitrobenzene-d5	60%	30-130
2-Fluorobiphenyl	58%	30-130
2,4,6-Tribromophenol	69%	30-130
Terphenyl-d14	61%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B GCMS	File ID:	B4280.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 13:41
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	40.0	201	U
108-95-2	Phenol	ND	40.0	201	U
111-44-4	bis(2-chloroethyl)ether	ND	40.0	201	U
95-57-8	2-Chlorophenol	ND	40.0	201	U
541-73-1	1,3-Dichlorobenzene	ND	40.0	201	U
106-46-7	1,4-Dichlorobenzene	ND	40.0	201	U
100-51-6	Benzyl alcohol	ND	40.0	201	U
95-50-1	1,2-Dichlorobenzene	ND	40.0	201	U
95-48-7	2-Methylphenol	ND	40.0	201	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	40.0	201	U
106-44-5	3 & 4-Methylphenol	ND	40.0	201	U
621-64-7	N-Nitroso-di-n-propylamine	ND	40.0	201	U
67-72-1	Hexachloroethane	ND	40.0	201	U
98-95-3	Nitrobenzene	ND	40.0	201	U
78-59-1	Isophorone	ND	40.0	201	U
88-75-5	2-Nitrophenol	ND	40.0	201	U
105-67-9	2,4-Dimethylphenol	ND	40.0	201	U
65-85-0	Benzoic acid	ND	99.8	400	U
111-91-1	bis(2-chloroethoxy)methane	ND	40.0	201	U
120-83-2	2,4-Dichlorophenol	ND	40.0	201	U
120-82-1	1,2,4-Trichlorobenzene	ND	40.0	201	U
91-20-3	Naphthalene	ND	40.0	201	U
106-47-8	4-Chloroaniline	ND	40.0	201	U
87-68-3	Hexachlorobutadiene	ND	40.0	201	U
59-50-7	4-Chloro-3-methylphenol	ND	40.0	201	U
91-57-6	2-Methylnaphthylene	ND	40.0	201	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B GCMS	File ID:	B4280.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 13:41
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	40.0	201	U
88-06-2	2,4,6-Trichlorophenol	ND	40.0	201	U
95-95-4	2,4,5-Trichlorophenol	ND	40.0	201	U
91-58-7	2-Chloronaphthalene	ND	40.0	201	U
88-74-4	2-Nitroaniline	ND	40.0	201	U
131-11-3	Dimethylphthalate	ND	40.0	201	U
208-96-8	Acenaphthylene	ND	40.0	201	U
99-09-2	3-Nitroaniline	ND	40.0	201	U
83-32-9	Acenaphthene	ND	40.0	201	U
51-28-5	2,4-Dinitrophenol	ND	40.0	400	U
100-02-7	4-Nitrophenol	ND	40.0	201	U
132-64-9	Dibenzofuran	ND	40.0	201	U
606-20-2	2,6-Dinitrotoluene	ND	40.0	201	U
121-14-2	2,4-Dinitrotoluene	ND	40.0	201	U
84-66-2	Diethyl phthalate	ND	40.0	201	U
7005-72-3	4-Chlorophenyl-phenylether	ND	40.0	201	U
86-73-7	Fluorene	ND	40.0	201	U
100-01-6	4-Nitroaniline	ND	40.0	201	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	40.0	201	U
86-30-6	N-Nitrosodiphenylamine	ND	40.0	201	U
101-55-3	4-Bromophenyl-phenylether	ND	40.0	201	U
118-74-1	Hexachlorobenzene	ND	40.0	201	U
87-86-5	Pentachlorophenol	ND	40.0	201	U
85-01-8	Phenanthrene	ND	40.0	201	U
120-12-7	Anthracene	ND	40.0	201	U
84-74-2	Di-n-butyl phthalate	ND	40.0	201	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B GCMS	File ID:	B4280.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 13:41
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	ND	40.0	201	U
129-00-0	Pyrene	ND	40.0	201	U
85-68-7	Butylbenzylphthalate	ND	40.0	201	U
91-94-1	3,3'-Dichlorobenzidine	ND	99.8	201	U
56-55-3	Benzo[a]anthracene	ND	40.0	201	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	40.0	201	U
218-01-9	Chrysene	ND	40.0	201	U
117-84-0	Di-n-octyl phthalate	ND	40.0	201	U
205-99-2	Benzo[b]fluoranthene	ND	40.0	201	U
207-08-9	Benzo[k]fluoranthene	ND	40.0	201	U
50-32-8	Benzo[a]pyrene	ND	40.0	201	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	40.0	201	U
53-70-3	Dibenzo(a,h)anthracene	ND	40.0	201	U
191-24-2	Benzo[ghi]perylene	ND	40.0	201	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	55%	30-130
Phenol-d5	60%	30-130
Nitrobenzene-d5	64%	30-130
2-Fluorobiphenyl	61%	30-130
2,4,6-Tribromophenol	69%	30-130
Terphenyl-d14	70%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4288.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 19:36
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	40.7	204	U
108-95-2	Phenol	ND	40.7	204	U
111-44-4	bis(2-chloroethyl)ether	ND	40.7	204	U
95-57-8	2-Chlorophenol	ND	40.7	204	U
541-73-1	1,3-Dichlorobenzene	ND	40.7	204	U
106-46-7	1,4-Dichlorobenzene	ND	40.7	204	U
100-51-6	Benzyl alcohol	ND	40.7	204	U
95-50-1	1,2-Dichlorobenzene	ND	40.7	204	U
95-48-7	2-Methylphenol	90.1	40.7	204	J
39638-32-9	bis(2-chloroisopropyl)ether	ND	40.7	204	U
106-44-5	3 & 4-Methylphenol	222	40.7	204	
621-64-7	N-Nitroso-di-n-propylamine	ND	40.7	204	U
67-72-1	Hexachloroethane	ND	40.7	204	U
98-95-3	Nitrobenzene	ND	40.7	204	U
78-59-1	Isophorone	ND	40.7	204	U
88-75-5	2-Nitrophenol	ND	40.7	204	U
105-67-9	2,4-Dimethylphenol	114	40.7	204	J
65-85-0	Benzoic acid	ND	101	407	U
111-91-1	bis(2-chloroethoxy)methane	ND	40.7	204	U
120-83-2	2,4-Dichlorophenol	ND	40.7	204	U
120-82-1	1,2,4-Trichlorobenzene	ND	40.7	204	U
91-20-3	Naphthalene	11100	40.7	204	E
106-47-8	4-Chloroaniline	ND	40.7	204	U
87-68-3	Hexachlorobutadiene	ND	40.7	204	U
59-50-7	4-Chloro-3-methylphenol	ND	40.7	204	U
91-57-6	2-Methylnaphthylene	4470	40.7	204	

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4288.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 19:36
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	40.7	204	U
88-06-2	2,4,6-Trichlorophenol	ND	40.7	204	U
95-95-4	2,4,5-Trichlorophenol	ND	40.7	204	U
91-58-7	2-Chloronaphthalene	ND	40.7	204	U
88-74-4	2-Nitroaniline	ND	40.7	204	U
131-11-3	Dimethylphthalate	ND	40.7	204	U
208-96-8	Acenaphthylene	235	40.7	204	
99-09-2	3-Nitroaniline	ND	40.7	204	U
83-32-9	Acenaphthene	5530	40.7	204	E
51-28-5	2,4-Dinitrophenol	ND	40.7	407	U
100-02-7	4-Nitrophenol	ND	40.7	204	U
132-64-9	Dibenzofuran	6210	40.7	204	E
606-20-2	2,6-Dinitrotoluene	ND	40.7	204	U
121-14-2	2,4-Dinitrotoluene	ND	40.7	204	U
84-66-2	Diethyl phthalate	ND	40.7	204	U
7005-72-3	4-Chlorophenyl-phenylether	ND	40.7	204	U
86-73-7	Fluorene	6940	40.7	204	E
100-01-6	4-Nitroaniline	ND	40.7	204	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	40.7	204	U
86-30-6	N-Nitrosodiphenylamine	ND	40.7	204	U
101-55-3	4-Bromophenyl-phenylether	ND	40.7	204	U
118-74-1	Hexachlorobenzene	ND	40.7	204	U
87-86-5	Pentachlorophenol	ND	40.7	204	U
85-01-8	Phenanthrene	40200	40.7	204	E
120-12-7	Anthracene	9420	40.7	204	E
84-74-2	Di-n-butyl phthalate	ND	40.7	204	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4288.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 19:36
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	36600	40.7	204	E
129-00-0	Pyrene	47300	40.7	204	E
85-68-7	Butylbenzylphthalate	ND	40.7	204	U
91-94-1	3,3'-Dichlorobenzidine	ND	101	204	U
56-55-3	Benzo[a]anthracene	21900	40.7	204	E
117-81-7	bis(2-ethylhexyl)phthalate	ND	40.7	204	U
218-01-9	Chrysene	14400	40.7	204	E
117-84-0	Di-n-octyl phthalate	ND	40.7	204	U
205-99-2	Benzo[b]fluoranthene	30900	40.7	204	E
207-08-9	Benzo[k]fluoranthene	7450	40.7	204	E
50-32-8	Benzo[a]pyrene	15600	40.7	204	E
193-39-5	Indeno(1,2,3-cd)pyrene	3760	40.7	204	
53-70-3	Dibenzo(a,h)anthracene	1360	40.7	204	
191-24-2	Benzo[ghi]perylene	3780	40.7	204	

Surrogate	% Recovery		Recovery Limits
2-Fluorophenol	66%		30-130
Phenol-d5	74%		30-130
Nitrobenzene-d5	88%		30-130
2-Fluorobiphenyl	79%		30-130
2,4,6-Tribromophenol	96%		30-130
Terphenyl-d14	206%	*	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06RE1
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4305.D
Prep Batch:	B6L0503	Sequence:	S6L0605	Analyzed:	12/06/16 21:11
Dilution:	20			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	813	4080	U
108-95-2	Phenol	ND	813	4080	U
111-44-4	bis(2-chloroethyl)ether	ND	813	4080	U
95-57-8	2-Chlorophenol	ND	813	4080	U
541-73-1	1,3-Dichlorobenzene	ND	813	4080	U
106-46-7	1,4-Dichlorobenzene	ND	813	4080	U
100-51-6	Benzyl alcohol	ND	813	4080	U
95-50-1	1,2-Dichlorobenzene	ND	813	4080	U
95-48-7	2-Methylphenol	ND	813	4080	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	813	4080	U
106-44-5	3 & 4-Methylphenol	ND	813	4080	U
621-64-7	N-Nitroso-di-n-propylamine	ND	813	4080	U
67-72-1	Hexachloroethane	ND	813	4080	U
98-95-3	Nitrobenzene	ND	813	4080	U
78-59-1	Isophorone	ND	813	4080	U
88-75-5	2-Nitrophenol	ND	813	4080	U
105-67-9	2,4-Dimethylphenol	ND	813	4080	U
65-85-0	Benzoic acid	ND	2030	8130	U
111-91-1	bis(2-chloroethoxy)methane	ND	813	4080	U
120-83-2	2,4-Dichlorophenol	ND	813	4080	U
120-82-1	1,2,4-Trichlorobenzene	ND	813	4080	U
91-20-3	Naphthalene	16600	813	4080	D
106-47-8	4-Chloroaniline	ND	813	4080	U
87-68-3	Hexachlorobutadiene	ND	813	4080	U
59-50-7	4-Chloro-3-methylphenol	ND	813	4080	U
91-57-6	2-Methylnaphthylene	4970	813	4080	D

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06RE1
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4305.D
Prep Batch:	B6L0503	Sequence:	S6L0605	Analyzed:	12/06/16 21:11
Dilution:	20			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	813	4080	U
88-06-2	2,4,6-Trichlorophenol	ND	813	4080	U
95-95-4	2,4,5-Trichlorophenol	ND	813	4080	U
91-58-7	2-Chloronaphthalene	ND	813	4080	U
88-74-4	2-Nitroaniline	ND	813	4080	U
131-11-3	Dimethylphthalate	ND	813	4080	U
208-96-8	Acenaphthylene	ND	813	4080	U
99-09-2	3-Nitroaniline	ND	813	4080	U
83-32-9	Acenaphthene	7080	813	4080	D
51-28-5	2,4-Dinitrophenol	ND	813	8130	U
100-02-7	4-Nitrophenol	ND	813	4080	U
132-64-9	Dibenzofuran	7820	813	4080	D
606-20-2	2,6-Dinitrotoluene	ND	813	4080	U
121-14-2	2,4-Dinitrotoluene	ND	813	4080	U
84-66-2	Diethyl phthalate	ND	813	4080	U
7005-72-3	4-Chlorophenyl-phenylether	ND	813	4080	U
86-73-7	Fluorene	8970	813	4080	D
100-01-6	4-Nitroaniline	ND	813	4080	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	813	4080	U
86-30-6	N-Nitrosodiphenylamine	ND	813	4080	U
101-55-3	4-Bromophenyl-phenylether	ND	813	4080	U
118-74-1	Hexachlorobenzene	ND	813	4080	U
87-86-5	Pentachlorophenol	ND	813	4080	U
85-01-8	Phenanthrene	59100	813	4080	D
120-12-7	Anthracene	11600	813	4080	D
84-74-2	Di-n-butyl phthalate	ND	813	4080	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06RE1
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4305.D
Prep Batch:	B6L0503	Sequence:	S6L0605	Analyzed:	12/06/16 21:11
Dilution:	20			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	41900	813	4080	D
129-00-0	Pyrene	88800	813	4080	D
85-68-7	Butylbenzylphthalate	ND	813	4080	U
91-94-1	3,3'-Dichlorobenzidine	ND	2030	4080	U
56-55-3	Benzo[a]anthracene	19800	813	4080	D
117-81-7	bis(2-ethylhexyl)phthalate	ND	813	4080	U
218-01-9	Chrysene	18900	813	4080	D
117-84-0	Di-n-octyl phthalate	ND	813	4080	U
205-99-2	Benzo[b]fluoranthene	27500	813	4080	D
207-08-9	Benzo[k]fluoranthene	8260	813	4080	D
50-32-8	Benzo[a]pyrene	15700	813	4080	D
193-39-5	Indeno(1,2,3-cd)pyrene	4770	813	4080	D
53-70-3	Dibenzo(a,h)anthracene	ND	813	4080	U
191-24-2	Benzo[ghi]perylene	4660	813	4080	D

Surrogate	% Recovery		Recovery Limits
2-Fluorophenol	73%		30-130
Phenol-d5	82%		30-130
Nitrobenzene-d5	83%		30-130
2-Fluorobiphenyl	86%		30-130
2,4,6-Tribromophenol	78%		30-130
Terphenyl-d14	219%	*	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B GCMS	File ID:	B4281.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 14:25
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	38.2	192	U
108-95-2	Phenol	ND	38.2	192	U
111-44-4	bis(2-chloroethyl)ether	ND	38.2	192	U
95-57-8	2-Chlorophenol	ND	38.2	192	U
541-73-1	1,3-Dichlorobenzene	ND	38.2	192	U
106-46-7	1,4-Dichlorobenzene	ND	38.2	192	U
100-51-6	Benzyl alcohol	ND	38.2	192	U
95-50-1	1,2-Dichlorobenzene	ND	38.2	192	U
95-48-7	2-Methylphenol	ND	38.2	192	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	38.2	192	U
106-44-5	3 & 4-Methylphenol	ND	38.2	192	U
621-64-7	N-Nitroso-di-n-propylamine	ND	38.2	192	U
67-72-1	Hexachloroethane	ND	38.2	192	U
98-95-3	Nitrobenzene	ND	38.2	192	U
78-59-1	Isophorone	ND	38.2	192	U
88-75-5	2-Nitrophenol	ND	38.2	192	U
105-67-9	2,4-Dimethylphenol	ND	38.2	192	U
65-85-0	Benzoic acid	ND	95.3	382	U
111-91-1	bis(2-chloroethoxy)methane	ND	38.2	192	U
120-83-2	2,4-Dichlorophenol	ND	38.2	192	U
120-82-1	1,2,4-Trichlorobenzene	ND	38.2	192	U
91-20-3	Naphthalene	ND	38.2	192	U
106-47-8	4-Chloroaniline	ND	38.2	192	U
87-68-3	Hexachlorobutadiene	ND	38.2	192	U
59-50-7	4-Chloro-3-methylphenol	ND	38.2	192	U
91-57-6	2-Methylnaphthylene	ND	38.2	192	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B GCMS	File ID:	B4281.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 14:25
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	38.2	192	U
88-06-2	2,4,6-Trichlorophenol	ND	38.2	192	U
95-95-4	2,4,5-Trichlorophenol	ND	38.2	192	U
91-58-7	2-Chloronaphthalene	ND	38.2	192	U
88-74-4	2-Nitroaniline	ND	38.2	192	U
131-11-3	Dimethylphthalate	ND	38.2	192	U
208-96-8	Acenaphthylene	ND	38.2	192	U
99-09-2	3-Nitroaniline	ND	38.2	192	U
83-32-9	Acenaphthene	ND	38.2	192	U
51-28-5	2,4-Dinitrophenol	ND	38.2	382	U
100-02-7	4-Nitrophenol	ND	38.2	192	U
132-64-9	Dibenzofuran	ND	38.2	192	U
606-20-2	2,6-Dinitrotoluene	ND	38.2	192	U
121-14-2	2,4-Dinitrotoluene	ND	38.2	192	U
84-66-2	Diethyl phthalate	ND	38.2	192	U
7005-72-3	4-Chlorophenyl-phenylether	ND	38.2	192	U
86-73-7	Fluorene	ND	38.2	192	U
100-01-6	4-Nitroaniline	ND	38.2	192	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	38.2	192	U
86-30-6	N-Nitrosodiphenylamine	ND	38.2	192	U
101-55-3	4-Bromophenyl-phenylether	ND	38.2	192	U
118-74-1	Hexachlorobenzene	ND	38.2	192	U
87-86-5	Pentachlorophenol	ND	38.2	192	U
85-01-8	Phenanthrene	ND	38.2	192	U
120-12-7	Anthracene	ND	38.2	192	U
84-74-2	Di-n-butyl phthalate	ND	38.2	192	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B GCMS	File ID:	B4281.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 14:25
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	56.8	38.2	192	J
129-00-0	Pyrene	47.1	38.2	192	J
85-68-7	Butylbenzylphthalate	ND	38.2	192	U
91-94-1	3,3'-Dichlorobenzidine	ND	95.3	192	U
56-55-3	Benzo[a]anthracene	ND	38.2	192	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	38.2	192	U
218-01-9	Chrysene	ND	38.2	192	U
117-84-0	Di-n-octyl phthalate	ND	38.2	192	U
205-99-2	Benzo[b]fluoranthene	ND	38.2	192	U
207-08-9	Benzo[k]fluoranthene	ND	38.2	192	U
50-32-8	Benzo[a]pyrene	ND	38.2	192	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38.2	192	U
53-70-3	Dibenzo(a,h)anthracene	ND	38.2	192	U
191-24-2	Benzo[ghi]perylene	ND	38.2	192	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	52%	30-130
Phenol-d5	56%	30-130
Nitrobenzene-d5	60%	30-130
2-Fluorobiphenyl	58%	30-130
2,4,6-Tribromophenol	67%	30-130
Terphenyl-d14	64%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B GCMS	File ID:	B4282.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:10
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	38.7	194	U
108-95-2	Phenol	ND	38.7	194	U
111-44-4	bis(2-chloroethyl)ether	ND	38.7	194	U
95-57-8	2-Chlorophenol	ND	38.7	194	U
541-73-1	1,3-Dichlorobenzene	ND	38.7	194	U
106-46-7	1,4-Dichlorobenzene	ND	38.7	194	U
100-51-6	Benzyl alcohol	ND	38.7	194	U
95-50-1	1,2-Dichlorobenzene	ND	38.7	194	U
95-48-7	2-Methylphenol	ND	38.7	194	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	38.7	194	U
106-44-5	3 & 4-Methylphenol	ND	38.7	194	U
621-64-7	N-Nitroso-di-n-propylamine	ND	38.7	194	U
67-72-1	Hexachloroethane	ND	38.7	194	U
98-95-3	Nitrobenzene	ND	38.7	194	U
78-59-1	Isophorone	ND	38.7	194	U
88-75-5	2-Nitrophenol	ND	38.7	194	U
105-67-9	2,4-Dimethylphenol	ND	38.7	194	U
65-85-0	Benzoic acid	ND	96.4	387	U
111-91-1	bis(2-chloroethoxy)methane	ND	38.7	194	U
120-83-2	2,4-Dichlorophenol	ND	38.7	194	U
120-82-1	1,2,4-Trichlorobenzene	ND	38.7	194	U
91-20-3	Naphthalene	ND	38.7	194	U
106-47-8	4-Chloroaniline	ND	38.7	194	U
87-68-3	Hexachlorobutadiene	ND	38.7	194	U
59-50-7	4-Chloro-3-methylphenol	ND	38.7	194	U
91-57-6	2-Methylnaphthylene	ND	38.7	194	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B GCMS	File ID:	B4282.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:10
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	38.7	194	U
88-06-2	2,4,6-Trichlorophenol	ND	38.7	194	U
95-95-4	2,4,5-Trichlorophenol	ND	38.7	194	U
91-58-7	2-Chloronaphthalene	ND	38.7	194	U
88-74-4	2-Nitroaniline	ND	38.7	194	U
131-11-3	Dimethylphthalate	ND	38.7	194	U
208-96-8	Acenaphthylene	ND	38.7	194	U
99-09-2	3-Nitroaniline	ND	38.7	194	U
83-32-9	Acenaphthene	ND	38.7	194	U
51-28-5	2,4-Dinitrophenol	ND	38.7	387	U
100-02-7	4-Nitrophenol	ND	38.7	194	U
132-64-9	Dibenzofuran	ND	38.7	194	U
606-20-2	2,6-Dinitrotoluene	ND	38.7	194	U
121-14-2	2,4-Dinitrotoluene	ND	38.7	194	U
84-66-2	Diethyl phthalate	ND	38.7	194	U
7005-72-3	4-Chlorophenyl-phenylether	ND	38.7	194	U
86-73-7	Fluorene	ND	38.7	194	U
100-01-6	4-Nitroaniline	ND	38.7	194	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	38.7	194	U
86-30-6	N-Nitrosodiphenylamine	ND	38.7	194	U
101-55-3	4-Bromophenyl-phenylether	ND	38.7	194	U
118-74-1	Hexachlorobenzene	ND	38.7	194	U
87-86-5	Pentachlorophenol	ND	38.7	194	U
85-01-8	Phenanthrene	96.4	38.7	194	J
120-12-7	Anthracene	ND	38.7	194	U
84-74-2	Di-n-butyl phthalate	ND	38.7	194	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B GCMS	File ID:	B4282.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:10
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	143	38.7	194	J
129-00-0	Pyrene	113	38.7	194	J
85-68-7	Butylbenzylphthalate	ND	38.7	194	U
91-94-1	3,3'-Dichlorobenzidine	ND	96.4	194	U
56-55-3	Benzo[a]anthracene	58.3	38.7	194	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	38.7	194	U
218-01-9	Chrysene	61.9	38.7	194	J
117-84-0	Di-n-octyl phthalate	ND	38.7	194	U
205-99-2	Benzo[b]fluoranthene	63.3	38.7	194	J
207-08-9	Benzo[k]fluoranthene	ND	38.7	194	U
50-32-8	Benzo[a]pyrene	53.5	38.7	194	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38.7	194	U
53-70-3	Dibenzo(a,h)anthracene	ND	38.7	194	U
191-24-2	Benzo[ghi]perylene	ND	38.7	194	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	51%	30-130
Phenol-d5	55%	30-130
Nitrobenzene-d5	59%	30-130
2-Fluorobiphenyl	58%	30-130
2,4,6-Tribromophenol	69%	30-130
Terphenyl-d14	64%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

VOLATILES SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/06/16 13:28	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10500.D
Prep Batch:	B6L0614	Sequence:	S6L0607	Analyzed:	12/06/16 13:28
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.20	12.0	U
107-13-1	Acrylonitrile	ND	2.40	12.0	U
67-64-1	Acetone	7.17	1.20	2.40	
75-71-8	Dichlorodifluoromethane	ND	1.20	2.40	U
74-87-3	Chloromethane	ND	1.20	2.40	U
75-01-4	Vinyl chloride	ND	1.20	2.40	U
74-83-9	Bromomethane	ND	1.20	2.40	U
75-00-3	Chloroethane	ND	1.20	2.40	U
75-69-4	Trichlorofluoromethane	ND	1.20	2.40	U
75-35-4	1,1-Dichloroethene	ND	1.20	2.40	U
75-15-0	Carbon disulfide	ND	1.20	2.40	U
75-09-2	Methylene Chloride	ND	1.20	2.40	U
156-60-5	trans-1,2-Dichloroethene	ND	1.20	2.40	U
75-34-3	1,1-Dichloroethane	ND	1.20	2.40	U
108-05-4	Vinyl acetate	ND	1.20	2.40	U
590-20-7	2,2-Dichloropropane	ND	1.20	2.40	U
78-93-3	2-Butanone	ND	1.20	2.40	U
156-59-4	cis-1,2-Dichloroethene	ND	1.20	2.40	U
67-66-3	Chloroform	ND	1.20	2.40	U
74-97-5	Bromochloromethane	ND	1.20	2.40	U
71-55-6	1,1,1-Trichloroethane	ND	1.20	2.40	U
563-58-6	1,1-Dichloropropene	ND	1.20	2.40	U
56-23-5	Carbon Tetrachloride	ND	1.20	2.40	U
107-06-2	1,2-Dichloroethane	ND	1.20	2.40	U
71-43-2	Benzene	ND	1.20	2.40	U
79-01-6	Trichloroethene	ND	1.20	2.40	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/06/16 13:28	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10500.D
Prep Batch:	B6L0614	Sequence:	S6L0607	Analyzed:	12/06/16 13:28
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.20	2.40	U
75-27-4	Bromodichloromethane	ND	1.20	2.40	U
74-95-3	Dibromomethane	ND	1.20	2.40	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.20	2.40	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.20	2.40	U
108-88-3	Toluene	ND	1.20	2.40	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.20	2.40	U
79-00-5	1,1,2-Trichloroethane	ND	1.20	2.40	U
108-10-1	4-Methyl-2-pentanone	ND	1.20	2.40	U
106-93-4	1,2-Dibromoethane	ND	1.20	2.40	U
591-78-6	2-Hexanone	ND	1.20	2.40	U
142-28-9	1,3-Dichloropropane	ND	1.20	2.40	U
127-18-4	Tetrachloroethene	ND	1.20	2.40	U
124-48-1	Dibromochloromethane	ND	1.20	2.40	U
100-41-4	Ethylbenzene	ND	1.20	2.40	U
108-90-7	Chlorobenzene	ND	1.20	2.40	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.20	2.40	U
108-38-3/106-42	m,p-Xylenes	ND	2.40	4.80	U
95-47-6	o-Xylene	ND	2.40	4.80	U
100-42-5	Styrene	ND	1.20	4.80	U
75-25-2	Bromoform	ND	1.20	2.40	U
98-82-8	Isopropylbenzene	ND	1.20	2.40	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.20	2.40	U
96-18-4	1,2,3-Trichloropropane	ND	1.20	2.40	U
103-65-1	n-Propyl Benzene	ND	1.20	2.40	U
108-86-1	Bromobenzene	ND	1.20	2.40	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/06/16 13:28	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10500.D
Prep Batch:	B6L0614	Sequence:	S6L0607	Analyzed:	12/06/16 13:28
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.20	2.40	U
95-49-8	2-Chlorotoluene	ND	1.20	2.40	U
106-43-4	4-Chlorotoluene	ND	1.20	2.40	U
98-06-6	tert-Butylbenzene	ND	1.20	2.40	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.20	2.40	U
135-98-8	sec-Butylbenzene	ND	1.20	2.40	U
99-87-6	p-Isopropyltoluene	ND	1.20	2.40	U
541-73-1	1,3-Dichlorobenzene	ND	1.20	2.40	U
106-46-7	1,4-Dichlorobenzene	ND	1.20	2.40	U
104-51-8	n-Butyl Benzene	ND	1.20	2.40	U
95-50-1	1,2-Dichlorobenzene	ND	1.20	2.40	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.20	2.40	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.20	2.40	U
87-68-3	Hexachlorobutadiene	ND	1.20	2.40	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.20	2.40	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	110%	70-130
Toluene-d8	100%	70-130
Bromofluorobenzene	94%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 18:37	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 5035A	File ID:	A10481.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 18:37
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.05	11.7	U
107-13-1	Acrylonitrile	ND	2.35	11.7	U
67-64-1	Acetone	ND	1.17	2.35	U
75-71-8	Dichlorodifluoromethane	ND	1.17	2.35	U
74-87-3	Chloromethane	ND	1.17	2.35	U
75-01-4	Vinyl chloride	ND	1.17	2.35	U
74-83-9	Bromomethane	ND	1.17	2.35	U
75-00-3	Chloroethane	ND	1.17	2.35	U
75-69-4	Trichlorofluoromethane	ND	1.17	2.35	U
75-35-4	1,1-Dichloroethene	ND	1.17	2.35	U
75-15-0	Carbon disulfide	ND	1.17	2.35	U
75-09-2	Methylene Chloride	ND	1.17	2.35	U
156-60-5	trans-1,2-Dichloroethene	ND	1.17	2.35	U
75-34-3	1,1-Dichloroethane	ND	1.17	2.35	U
108-05-4	Vinyl acetate	ND	1.17	2.35	U
590-20-7	2,2-Dichloropropane	ND	1.17	2.35	U
78-93-3	2-Butanone	ND	1.17	2.35	U
156-59-4	cis-1,2-Dichloroethene	ND	1.17	2.35	U
67-66-3	Chloroform	ND	1.17	2.35	U
74-97-5	Bromochloromethane	ND	1.17	2.35	U
71-55-6	1,1,1-Trichloroethane	ND	1.17	2.35	U
563-58-6	1,1-Dichloropropene	ND	1.17	2.35	U
56-23-5	Carbon Tetrachloride	ND	1.17	2.35	U
107-06-2	1,2-Dichloroethane	ND	1.17	2.35	U
71-43-2	Benzene	ND	1.17	2.35	U
79-01-6	Trichloroethene	ND	1.17	2.35	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 18:37	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 5035A	File ID:	A10481.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 18:37
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.17	2.35	U
75-27-4	Bromodichloromethane	ND	1.17	2.35	U
74-95-3	Dibromomethane	ND	1.17	2.35	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.17	2.35	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.17	2.35	U
108-88-3	Toluene	ND	1.17	2.35	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.17	2.35	U
79-00-5	1,1,2-Trichloroethane	ND	1.17	2.35	U
108-10-1	4-Methyl-2-pentanone	ND	1.17	2.35	U
106-93-4	1,2-Dibromoethane	ND	1.17	2.35	U
591-78-6	2-Hexanone	ND	1.17	2.35	U
142-28-9	1,3-Dichloropropane	ND	1.17	2.35	U
127-18-4	Tetrachloroethene	ND	1.17	2.35	U
124-48-1	Dibromochloromethane	ND	1.17	2.35	U
100-41-4	Ethylbenzene	ND	1.17	2.35	U
108-90-7	Chlorobenzene	ND	1.17	2.35	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.17	2.35	U
108-38-3/106-42	m,p-Xylenes	ND	2.35	4.70	U
95-47-6	o-Xylene	ND	2.35	4.70	U
100-42-5	Styrene	ND	1.17	4.70	U
75-25-2	Bromoform	ND	1.17	2.35	U
98-82-8	Isopropylbenzene	ND	1.17	2.35	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.17	2.35	U
96-18-4	1,2,3-Trichloropropane	ND	1.17	2.35	U
103-65-1	n-Propyl Benzene	ND	1.17	2.35	U
108-86-1	Bromobenzene	ND	1.17	2.35	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 18:37	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 5035A	File ID:	A10481.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 18:37
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.17	2.35	U
95-49-8	2-Chlorotoluene	ND	1.17	2.35	U
106-43-4	4-Chlorotoluene	ND	1.17	2.35	U
98-06-6	tert-Butylbenzene	ND	1.17	2.35	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.17	2.35	U
135-98-8	sec-Butylbenzene	ND	1.17	2.35	U
99-87-6	p-Isopropyltoluene	ND	1.17	2.35	U
541-73-1	1,3-Dichlorobenzene	ND	1.17	2.35	U
106-46-7	1,4-Dichlorobenzene	ND	1.17	2.35	U
104-51-8	n-Butyl Benzene	ND	1.17	2.35	U
95-50-1	1,2-Dichlorobenzene	ND	1.17	2.35	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.17	2.35	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.17	2.35	U
87-68-3	Hexachlorobutadiene	ND	1.17	2.35	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.17	2.35	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	111%	70-130
Toluene-d8	86%	70-130
Bromofluorobenzene	75%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 19:09	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10482.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:09
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.54	12.6	U
107-13-1	Acrylonitrile	ND	2.51	12.6	U
67-64-1	Acetone	ND	1.26	2.51	U
75-71-8	Dichlorodifluoromethane	ND	1.26	2.51	U
74-87-3	Chloromethane	ND	1.26	2.51	U
75-01-4	Vinyl chloride	ND	1.26	2.51	U
74-83-9	Bromomethane	ND	1.26	2.51	U
75-00-3	Chloroethane	ND	1.26	2.51	U
75-69-4	Trichlorofluoromethane	ND	1.26	2.51	U
75-35-4	1,1-Dichloroethene	ND	1.26	2.51	U
75-15-0	Carbon disulfide	ND	1.26	2.51	U
75-09-2	Methylene Chloride	ND	1.26	2.51	U
156-60-5	trans-1,2-Dichloroethene	ND	1.26	2.51	U
75-34-3	1,1-Dichloroethane	ND	1.26	2.51	U
108-05-4	Vinyl acetate	ND	1.26	2.51	U
590-20-7	2,2-Dichloropropane	ND	1.26	2.51	U
78-93-3	2-Butanone	ND	1.26	2.51	U
156-59-4	cis-1,2-Dichloroethene	ND	1.26	2.51	U
67-66-3	Chloroform	ND	1.26	2.51	U
74-97-5	Bromochloromethane	ND	1.26	2.51	U
71-55-6	1,1,1-Trichloroethane	ND	1.26	2.51	U
563-58-6	1,1-Dichloropropene	ND	1.26	2.51	U
56-23-5	Carbon Tetrachloride	ND	1.26	2.51	U
107-06-2	1,2-Dichloroethane	ND	1.26	2.51	U
71-43-2	Benzene	ND	1.26	2.51	U
79-01-6	Trichloroethene	ND	1.26	2.51	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 19:09	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10482.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:09
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.26	2.51	U
75-27-4	Bromodichloromethane	ND	1.26	2.51	U
74-95-3	Dibromomethane	ND	1.26	2.51	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.26	2.51	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.26	2.51	U
108-88-3	Toluene	ND	1.26	2.51	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.26	2.51	U
79-00-5	1,1,2-Trichloroethane	ND	1.26	2.51	U
108-10-1	4-Methyl-2-pentanone	ND	1.26	2.51	U
106-93-4	1,2-Dibromoethane	ND	1.26	2.51	U
591-78-6	2-Hexanone	ND	1.26	2.51	U
142-28-9	1,3-Dichloropropane	ND	1.26	2.51	U
127-18-4	Tetrachloroethene	ND	1.26	2.51	U
124-48-1	Dibromochloromethane	ND	1.26	2.51	U
100-41-4	Ethylbenzene	ND	1.26	2.51	U
108-90-7	Chlorobenzene	ND	1.26	2.51	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.26	2.51	U
108-38-3/106-42	m,p-Xylenes	ND	2.51	5.03	U
95-47-6	o-Xylene	ND	2.51	5.03	U
100-42-5	Styrene	ND	1.26	5.03	U
75-25-2	Bromoform	ND	1.26	2.51	U
98-82-8	Isopropylbenzene	ND	1.26	2.51	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.26	2.51	U
96-18-4	1,2,3-Trichloropropane	ND	1.26	2.51	U
103-65-1	n-Propyl Benzene	ND	1.26	2.51	U
108-86-1	Bromobenzene	ND	1.26	2.51	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 19:09	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10482.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:09
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.26	2.51	U
95-49-8	2-Chlorotoluene	ND	1.26	2.51	U
106-43-4	4-Chlorotoluene	ND	1.26	2.51	U
98-06-6	tert-Butylbenzene	ND	1.26	2.51	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.26	2.51	U
135-98-8	sec-Butylbenzene	ND	1.26	2.51	U
99-87-6	p-Isopropyltoluene	ND	1.26	2.51	U
541-73-1	1,3-Dichlorobenzene	ND	1.26	2.51	U
106-46-7	1,4-Dichlorobenzene	ND	1.26	2.51	U
104-51-8	n-Butyl Benzene	ND	1.26	2.51	U
95-50-1	1,2-Dichlorobenzene	ND	1.26	2.51	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.26	2.51	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.26	2.51	U
87-68-3	Hexachlorobutadiene	ND	1.26	2.51	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.26	2.51	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	115%	70-130
Toluene-d8	91%	70-130
Bromofluorobenzene	78%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 19:40	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 5035A	File ID:	A10483.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:40
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.10	11.8	U
107-13-1	Acrylonitrile	ND	2.37	11.8	U
67-64-1	Acetone	ND	1.18	2.37	U
75-71-8	Dichlorodifluoromethane	ND	1.18	2.37	U
74-87-3	Chloromethane	ND	1.18	2.37	U
75-01-4	Vinyl chloride	ND	1.18	2.37	U
74-83-9	Bromomethane	ND	1.18	2.37	U
75-00-3	Chloroethane	ND	1.18	2.37	U
75-69-4	Trichlorofluoromethane	ND	1.18	2.37	U
75-35-4	1,1-Dichloroethene	ND	1.18	2.37	U
75-15-0	Carbon disulfide	ND	1.18	2.37	U
75-09-2	Methylene Chloride	ND	1.18	2.37	U
156-60-5	trans-1,2-Dichloroethene	ND	1.18	2.37	U
75-34-3	1,1-Dichloroethane	ND	1.18	2.37	U
108-05-4	Vinyl acetate	ND	1.18	2.37	U
590-20-7	2,2-Dichloropropane	ND	1.18	2.37	U
78-93-3	2-Butanone	ND	1.18	2.37	U
156-59-4	cis-1,2-Dichloroethene	ND	1.18	2.37	U
67-66-3	Chloroform	ND	1.18	2.37	U
74-97-5	Bromochloromethane	ND	1.18	2.37	U
71-55-6	1,1,1-Trichloroethane	ND	1.18	2.37	U
563-58-6	1,1-Dichloropropene	ND	1.18	2.37	U
56-23-5	Carbon Tetrachloride	ND	1.18	2.37	U
107-06-2	1,2-Dichloroethane	ND	1.18	2.37	U
71-43-2	Benzene	ND	1.18	2.37	U
79-01-6	Trichloroethene	ND	1.18	2.37	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 19:40	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 5035A	File ID:	A10483.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:40
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.18	2.37	U
75-27-4	Bromodichloromethane	ND	1.18	2.37	U
74-95-3	Dibromomethane	ND	1.18	2.37	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.18	2.37	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.18	2.37	U
108-88-3	Toluene	ND	1.18	2.37	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.18	2.37	U
79-00-5	1,1,2-Trichloroethane	ND	1.18	2.37	U
108-10-1	4-Methyl-2-pentanone	ND	1.18	2.37	U
106-93-4	1,2-Dibromoethane	ND	1.18	2.37	U
591-78-6	2-Hexanone	ND	1.18	2.37	U
142-28-9	1,3-Dichloropropane	ND	1.18	2.37	U
127-18-4	Tetrachloroethene	ND	1.18	2.37	U
124-48-1	Dibromochloromethane	ND	1.18	2.37	U
100-41-4	Ethylbenzene	ND	1.18	2.37	U
108-90-7	Chlorobenzene	ND	1.18	2.37	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.18	2.37	U
108-38-3/106-42	m,p-Xylenes	ND	2.37	4.73	U
95-47-6	o-Xylene	ND	2.37	4.73	U
100-42-5	Styrene	ND	1.18	4.73	U
75-25-2	Bromoform	ND	1.18	2.37	U
98-82-8	Isopropylbenzene	ND	1.18	2.37	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.18	2.37	U
96-18-4	1,2,3-Trichloropropane	ND	1.18	2.37	U
103-65-1	n-Propyl Benzene	ND	1.18	2.37	U
108-86-1	Bromobenzene	ND	1.18	2.37	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 19:40	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 5035A	File ID:	A10483.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:40
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.18	2.37	U
95-49-8	2-Chlorotoluene	ND	1.18	2.37	U
106-43-4	4-Chlorotoluene	ND	1.18	2.37	U
98-06-6	tert-Butylbenzene	ND	1.18	2.37	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.18	2.37	U
135-98-8	sec-Butylbenzene	ND	1.18	2.37	U
99-87-6	p-Isopropyltoluene	ND	1.18	2.37	U
541-73-1	1,3-Dichlorobenzene	ND	1.18	2.37	U
106-46-7	1,4-Dichlorobenzene	ND	1.18	2.37	U
104-51-8	n-Butyl Benzene	ND	1.18	2.37	U
95-50-1	1,2-Dichlorobenzene	ND	1.18	2.37	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.18	2.37	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.18	2.37	U
87-68-3	Hexachlorobutadiene	ND	1.18	2.37	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.18	2.37	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	110%	70-130
Toluene-d8	82%	70-130
Bromofluorobenzene	73%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 20:11	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 5035A	File ID:	A10484.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 20:11
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	5.56	9.27	U
107-13-1	Acrylonitrile	ND	1.85	9.27	U
67-64-1	Acetone	1.85	0.927	1.85	
75-71-8	Dichlorodifluoromethane	ND	0.927	1.85	U
74-87-3	Chloromethane	ND	0.927	1.85	U
75-01-4	Vinyl chloride	ND	0.927	1.85	U
74-83-9	Bromomethane	ND	0.927	1.85	U
75-00-3	Chloroethane	ND	0.927	1.85	U
75-69-4	Trichlorofluoromethane	ND	0.927	1.85	U
75-35-4	1,1-Dichloroethene	ND	0.927	1.85	U
75-15-0	Carbon disulfide	ND	0.927	1.85	U
75-09-2	Methylene Chloride	ND	0.927	1.85	U
156-60-5	trans-1,2-Dichloroethene	ND	0.927	1.85	U
75-34-3	1,1-Dichloroethane	ND	0.927	1.85	U
108-05-4	Vinyl acetate	ND	0.927	1.85	U
590-20-7	2,2-Dichloropropane	ND	0.927	1.85	U
78-93-3	2-Butanone	ND	0.927	1.85	U
156-59-4	cis-1,2-Dichloroethene	ND	0.927	1.85	U
67-66-3	Chloroform	ND	0.927	1.85	U
74-97-5	Bromochloromethane	ND	0.927	1.85	U
71-55-6	1,1,1-Trichloroethane	ND	0.927	1.85	U
563-58-6	1,1-Dichloropropene	ND	0.927	1.85	U
56-23-5	Carbon Tetrachloride	ND	0.927	1.85	U
107-06-2	1,2-Dichloroethane	ND	0.927	1.85	U
71-43-2	Benzene	ND	0.927	1.85	U
79-01-6	Trichloroethene	ND	0.927	1.85	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 20:11	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 5035A	File ID:	A10484.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 20:11
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	0.927	1.85	U
75-27-4	Bromodichloromethane	ND	0.927	1.85	U
74-95-3	Dibromomethane	ND	0.927	1.85	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.927	1.85	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.927	1.85	U
108-88-3	Toluene	ND	0.927	1.85	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.927	1.85	U
79-00-5	1,1,2-Trichloroethane	ND	0.927	1.85	U
108-10-1	4-Methyl-2-pentanone	ND	0.927	1.85	U
106-93-4	1,2-Dibromoethane	ND	0.927	1.85	U
591-78-6	2-Hexanone	ND	0.927	1.85	U
142-28-9	1,3-Dichloropropane	ND	0.927	1.85	U
127-18-4	Tetrachloroethene	ND	0.927	1.85	U
124-48-1	Dibromochloromethane	ND	0.927	1.85	U
100-41-4	Ethylbenzene	ND	0.927	1.85	U
108-90-7	Chlorobenzene	ND	0.927	1.85	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.927	1.85	U
108-38-3/106-42	m,p-Xylenes	ND	1.85	3.71	U
95-47-6	o-Xylene	ND	1.85	3.71	U
100-42-5	Styrene	ND	0.927	3.71	U
75-25-2	Bromoform	ND	0.927	1.85	U
98-82-8	Isopropylbenzene	ND	0.927	1.85	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.927	1.85	U
96-18-4	1,2,3-Trichloropropane	ND	0.927	1.85	U
103-65-1	n-Propyl Benzene	ND	0.927	1.85	U
108-86-1	Bromobenzene	ND	0.927	1.85	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 20:11	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 5035A	File ID:	A10484.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 20:11
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	0.927	1.85	U
95-49-8	2-Chlorotoluene	ND	0.927	1.85	U
106-43-4	4-Chlorotoluene	ND	0.927	1.85	U
98-06-6	tert-Butylbenzene	ND	0.927	1.85	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.927	1.85	U
135-98-8	sec-Butylbenzene	ND	0.927	1.85	U
99-87-6	p-Isopropyltoluene	ND	0.927	1.85	U
541-73-1	1,3-Dichlorobenzene	ND	0.927	1.85	U
106-46-7	1,4-Dichlorobenzene	ND	0.927	1.85	U
104-51-8	n-Butyl Benzene	ND	0.927	1.85	U
95-50-1	1,2-Dichlorobenzene	ND	0.927	1.85	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.927	1.85	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.927	1.85	U
87-68-3	Hexachlorobutadiene	ND	0.927	1.85	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.927	1.85	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	101%	70-130
Toluene-d8	100%	70-130
Bromofluorobenzene	91%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/07/16 13:17	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 5035A	File ID:	A10522.D
Prep Batch:	B6L0715	Sequence:	S6L0708	Analyzed:	12/07/16 13:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	6.72	11.2	U
107-13-1	Acrylonitrile	ND	2.24	11.2	U
67-64-1	Acetone	ND	1.12	2.24	U
75-71-8	Dichlorodifluoromethane	ND	1.12	2.24	U
74-87-3	Chloromethane	ND	1.12	2.24	U
75-01-4	Vinyl chloride	ND	1.12	2.24	U
74-83-9	Bromomethane	ND	1.12	2.24	U
75-00-3	Chloroethane	ND	1.12	2.24	U
75-69-4	Trichlorofluoromethane	ND	1.12	2.24	U
75-35-4	1,1-Dichloroethene	ND	1.12	2.24	U
75-15-0	Carbon disulfide	ND	1.12	2.24	U
75-09-2	Methylene Chloride	ND	1.12	2.24	U
156-60-5	trans-1,2-Dichloroethene	ND	1.12	2.24	U
75-34-3	1,1-Dichloroethane	ND	1.12	2.24	U
108-05-4	Vinyl acetate	ND	1.12	2.24	U
590-20-7	2,2-Dichloropropane	ND	1.12	2.24	U
78-93-3	2-Butanone	ND	1.12	2.24	U
156-59-4	cis-1,2-Dichloroethene	ND	1.12	2.24	U
67-66-3	Chloroform	ND	1.12	2.24	U
74-97-5	Bromochloromethane	ND	1.12	2.24	U
71-55-6	1,1,1-Trichloroethane	ND	1.12	2.24	U
563-58-6	1,1-Dichloropropene	ND	1.12	2.24	U
56-23-5	Carbon Tetrachloride	ND	1.12	2.24	U
107-06-2	1,2-Dichloroethane	ND	1.12	2.24	U
71-43-2	Benzene	ND	1.12	2.24	U
79-01-6	Trichloroethene	ND	1.12	2.24	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/07/16 13:17	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 5035A	File ID:	A10522.D
Prep Batch:	B6L0715	Sequence:	S6L0708	Analyzed:	12/07/16 13:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.12	2.24	U
75-27-4	Bromodichloromethane	ND	1.12	2.24	U
74-95-3	Dibromomethane	ND	1.12	2.24	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.12	2.24	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.12	2.24	U
108-88-3	Toluene	ND	1.12	2.24	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.12	2.24	U
79-00-5	1,1,2-Trichloroethane	ND	1.12	2.24	U
108-10-1	4-Methyl-2-pentanone	ND	1.12	2.24	U
106-93-4	1,2-Dibromoethane	ND	1.12	2.24	U
591-78-6	2-Hexanone	ND	1.12	2.24	U
142-28-9	1,3-Dichloropropane	ND	1.12	2.24	U
127-18-4	Tetrachloroethene	ND	1.12	2.24	U
124-48-1	Dibromochloromethane	ND	1.12	2.24	U
100-41-4	Ethylbenzene	ND	1.12	2.24	U
108-90-7	Chlorobenzene	ND	1.12	2.24	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.12	2.24	U
108-38-3/106-42	m,p-Xylenes	ND	2.24	4.48	U
95-47-6	o-Xylene	ND	2.24	4.48	U
100-42-5	Styrene	ND	1.12	4.48	U
75-25-2	Bromoform	ND	1.12	2.24	U
98-82-8	Isopropylbenzene	ND	1.12	2.24	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.12	2.24	U
96-18-4	1,2,3-Trichloropropane	ND	1.12	2.24	U
103-65-1	n-Propyl Benzene	ND	1.12	2.24	U
108-86-1	Bromobenzene	ND	1.12	2.24	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/07/16 13:17	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 5035A	File ID:	A10522.D
Prep Batch:	B6L0715	Sequence:	S6L0708	Analyzed:	12/07/16 13:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.12	2.24	U
95-49-8	2-Chlorotoluene	ND	1.12	2.24	U
106-43-4	4-Chlorotoluene	ND	1.12	2.24	U
98-06-6	tert-Butylbenzene	ND	1.12	2.24	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.12	2.24	U
135-98-8	sec-Butylbenzene	ND	1.12	2.24	U
99-87-6	p-Isopropyltoluene	ND	1.12	2.24	U
541-73-1	1,3-Dichlorobenzene	ND	1.12	2.24	U
106-46-7	1,4-Dichlorobenzene	ND	1.12	2.24	U
104-51-8	n-Butyl Benzene	ND	1.12	2.24	U
95-50-1	1,2-Dichlorobenzene	ND	1.12	2.24	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.12	2.24	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.12	2.24	U
87-68-3	Hexachlorobutadiene	ND	1.12	2.24	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.12	2.24	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	120%	70-130
Toluene-d8	99%	70-130
Bromofluorobenzene	87%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 21:14	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 5035A	File ID:	A10486.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:14
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	5.60	9.33	U
107-13-1	Acrylonitrile	ND	1.87	9.33	U
67-64-1	Acetone	6.59	0.933	1.87	
75-71-8	Dichlorodifluoromethane	ND	0.933	1.87	U
74-87-3	Chloromethane	ND	0.933	1.87	U
75-01-4	Vinyl chloride	ND	0.933	1.87	U
74-83-9	Bromomethane	ND	0.933	1.87	U
75-00-3	Chloroethane	ND	0.933	1.87	U
75-69-4	Trichlorofluoromethane	ND	0.933	1.87	U
75-35-4	1,1-Dichloroethene	ND	0.933	1.87	U
75-15-0	Carbon disulfide	ND	0.933	1.87	U
75-09-2	Methylene Chloride	ND	0.933	1.87	U
156-60-5	trans-1,2-Dichloroethene	ND	0.933	1.87	U
75-34-3	1,1-Dichloroethane	ND	0.933	1.87	U
108-05-4	Vinyl acetate	ND	0.933	1.87	U
590-20-7	2,2-Dichloropropane	ND	0.933	1.87	U
78-93-3	2-Butanone	ND	0.933	1.87	U
156-59-4	cis-1,2-Dichloroethene	ND	0.933	1.87	U
67-66-3	Chloroform	ND	0.933	1.87	U
74-97-5	Bromochloromethane	ND	0.933	1.87	U
71-55-6	1,1,1-Trichloroethane	ND	0.933	1.87	U
563-58-6	1,1-Dichloropropene	ND	0.933	1.87	U
56-23-5	Carbon Tetrachloride	ND	0.933	1.87	U
107-06-2	1,2-Dichloroethane	ND	0.933	1.87	U
71-43-2	Benzene	ND	0.933	1.87	U
79-01-6	Trichloroethene	ND	0.933	1.87	U

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ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 21:14	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 5035A	File ID:	A10486.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:14
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	0.933	1.87	U
75-27-4	Bromodichloromethane	ND	0.933	1.87	U
74-95-3	Dibromomethane	ND	0.933	1.87	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.933	1.87	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.933	1.87	U
108-88-3	Toluene	ND	0.933	1.87	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.933	1.87	U
79-00-5	1,1,2-Trichloroethane	ND	0.933	1.87	U
108-10-1	4-Methyl-2-pentanone	ND	0.933	1.87	U
106-93-4	1,2-Dibromoethane	ND	0.933	1.87	U
591-78-6	2-Hexanone	ND	0.933	1.87	U
142-28-9	1,3-Dichloropropane	ND	0.933	1.87	U
127-18-4	Tetrachloroethene	ND	0.933	1.87	U
124-48-1	Dibromochloromethane	ND	0.933	1.87	U
100-41-4	Ethylbenzene	ND	0.933	1.87	U
108-90-7	Chlorobenzene	ND	0.933	1.87	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.933	1.87	U
108-38-3/106-42	m,p-Xylenes	ND	1.87	3.73	U
95-47-6	o-Xylene	ND	1.87	3.73	U
100-42-5	Styrene	ND	0.933	3.73	U
75-25-2	Bromoform	ND	0.933	1.87	U
98-82-8	Isopropylbenzene	ND	0.933	1.87	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.933	1.87	U
96-18-4	1,2,3-Trichloropropane	ND	0.933	1.87	U
103-65-1	n-Propyl Benzene	ND	0.933	1.87	U
108-86-1	Bromobenzene	ND	0.933	1.87	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 21:14	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 5035A	File ID:	A10486.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:14
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	0.933	1.87	U
95-49-8	2-Chlorotoluene	ND	0.933	1.87	U
106-43-4	4-Chlorotoluene	ND	0.933	1.87	U
98-06-6	tert-Butylbenzene	ND	0.933	1.87	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.933	1.87	U
135-98-8	sec-Butylbenzene	ND	0.933	1.87	U
99-87-6	p-Isopropyltoluene	ND	0.933	1.87	U
541-73-1	1,3-Dichlorobenzene	ND	0.933	1.87	U
106-46-7	1,4-Dichlorobenzene	ND	0.933	1.87	U
104-51-8	n-Butyl Benzene	ND	0.933	1.87	U
95-50-1	1,2-Dichlorobenzene	ND	0.933	1.87	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.933	1.87	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.933	1.87	U
87-68-3	Hexachlorobutadiene	ND	0.933	1.87	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.933	1.87	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	107%	70-130
Toluene-d8	100%	70-130
Bromofluorobenzene	91%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 21:46	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 5035A	File ID:	A10487.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	5.56	9.26	U
107-13-1	Acrylonitrile	ND	1.85	9.26	U
67-64-1	Acetone	18.2	0.926	1.85	
75-71-8	Dichlorodifluoromethane	ND	0.926	1.85	U
74-87-3	Chloromethane	ND	0.926	1.85	U
75-01-4	Vinyl chloride	ND	0.926	1.85	U
74-83-9	Bromomethane	ND	0.926	1.85	U
75-00-3	Chloroethane	ND	0.926	1.85	U
75-69-4	Trichlorofluoromethane	ND	0.926	1.85	U
75-35-4	1,1-Dichloroethene	ND	0.926	1.85	U
75-15-0	Carbon disulfide	ND	0.926	1.85	U
75-09-2	Methylene Chloride	ND	0.926	1.85	U
156-60-5	trans-1,2-Dichloroethene	ND	0.926	1.85	U
75-34-3	1,1-Dichloroethane	ND	0.926	1.85	U
108-05-4	Vinyl acetate	ND	0.926	1.85	U
590-20-7	2,2-Dichloropropane	ND	0.926	1.85	U
78-93-3	2-Butanone	5.22	0.926	1.85	
156-59-4	cis-1,2-Dichloroethene	ND	0.926	1.85	U
67-66-3	Chloroform	ND	0.926	1.85	U
74-97-5	Bromochloromethane	ND	0.926	1.85	U
71-55-6	1,1,1-Trichloroethane	ND	0.926	1.85	U
563-58-6	1,1-Dichloropropene	ND	0.926	1.85	U
56-23-5	Carbon Tetrachloride	ND	0.926	1.85	U
107-06-2	1,2-Dichloroethane	ND	0.926	1.85	U
71-43-2	Benzene	ND	0.926	1.85	U
79-01-6	Trichloroethene	ND	0.926	1.85	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 21:46	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 5035A	File ID:	A10487.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	0.926	1.85	U
75-27-4	Bromodichloromethane	ND	0.926	1.85	U
74-95-3	Dibromomethane	ND	0.926	1.85	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.926	1.85	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.926	1.85	U
108-88-3	Toluene	ND	0.926	1.85	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.926	1.85	U
79-00-5	1,1,2-Trichloroethane	ND	0.926	1.85	U
108-10-1	4-Methyl-2-pentanone	ND	0.926	1.85	U
106-93-4	1,2-Dibromoethane	ND	0.926	1.85	U
591-78-6	2-Hexanone	ND	0.926	1.85	U
142-28-9	1,3-Dichloropropane	ND	0.926	1.85	U
127-18-4	Tetrachloroethene	ND	0.926	1.85	U
124-48-1	Dibromochloromethane	ND	0.926	1.85	U
100-41-4	Ethylbenzene	ND	0.926	1.85	U
108-90-7	Chlorobenzene	ND	0.926	1.85	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.926	1.85	U
108-38-3/106-42	m,p-Xylenes	ND	1.85	3.70	U
95-47-6	o-Xylene	ND	1.85	3.70	U
100-42-5	Styrene	ND	0.926	3.70	U
75-25-2	Bromoform	ND	0.926	1.85	U
98-82-8	Isopropylbenzene	ND	0.926	1.85	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.926	1.85	U
96-18-4	1,2,3-Trichloropropane	ND	0.926	1.85	U
103-65-1	n-Propyl Benzene	ND	0.926	1.85	U
108-86-1	Bromobenzene	ND	0.926	1.85	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 21:46	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 5035A	File ID:	A10487.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	0.926	1.85	U
95-49-8	2-Chlorotoluene	ND	0.926	1.85	U
106-43-4	4-Chlorotoluene	ND	0.926	1.85	U
98-06-6	tert-Butylbenzene	ND	0.926	1.85	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.926	1.85	U
135-98-8	sec-Butylbenzene	ND	0.926	1.85	U
99-87-6	p-Isopropyltoluene	ND	0.926	1.85	U
541-73-1	1,3-Dichlorobenzene	ND	0.926	1.85	U
106-46-7	1,4-Dichlorobenzene	ND	0.926	1.85	U
104-51-8	n-Butyl Benzene	ND	0.926	1.85	U
95-50-1	1,2-Dichlorobenzene	ND	0.926	1.85	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.926	1.85	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.926	1.85	U
87-68-3	Hexachlorobutadiene	ND	0.926	1.85	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.926	1.85	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	107%	70-130
Toluene-d8	99%	70-130
Bromofluorobenzene	86%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Matrix:	Soil
Percent Solids:	79.40	File ID:	120616A-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	10600	18.1	18.1	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-97-6	Mercury	0.215	0.0945	0.0945	1		12/06/16 07:56	EPA 7471A	12/07/16 11:38 PRT	EPA 7471
7440-36-0	Antimony	ND	3.62	3.62	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-38-2	Arsenic	2.28	0.906	0.906	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-39-3	Barium	76.9	18.1	18.1	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-41-7	Beryllium	0.492	0.453	0.453	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-43-9	Cadmium	1.35	0.453	0.453	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-70-2	Calcium	13200	22.7	22.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-47-3	Chromium	21.0	1.81	1.81	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-48-4	Cobalt	9.53	4.53	4.53	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-50-8	Copper	46.1	2.72	2.72	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-89-6	Iron	24100	566	566	25	D	12/05/16 08:56	EPA 3050B	12/06/16 13:51 LIT	EPA 6010
7439-92-1	Lead	169	0.906	0.906	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-95-4	Magnesium	7500	45.3	45.3	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-96-5	Manganese	400	1.81	1.81	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-02-0	Nickel	18.3	3.62	3.62	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-09-7	Potassium	1540	45.3	45.3	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7782-49-2	Selenium	ND	3.62	3.62	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-22-4	Silver	ND	0.453	0.453	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-23-5	Sodium	275	45.3	45.3	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-28-0	Thallium	ND	1.36	2.72	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-62-2	Vanadium	30.6	4.53	4.53	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-66-6	Zinc	150	5.44	5.44	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Matrix:	Soil
Percent Solids:	76.70	File ID:	120616A-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	11100	25.5	25.5	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-97-6	Mercury	0.223	0.0978	0.0978	1		12/06/16 07:56	EPA 7471A	12/07/16 11:47 PRT	EPA 7471
7440-36-0	Antimony	ND	5.10	5.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-38-2	Arsenic	2.84	1.27	1.27	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-39-3	Barium	76.7	25.5	25.5	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.637	0.637	1	U	12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-43-9	Cadmium	1.27	0.637	0.637	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-70-2	Calcium	6920	31.9	31.9	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-47-3	Chromium	20.8	2.55	2.55	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-48-4	Cobalt	9.86	6.37	6.37	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-50-8	Copper	46.0	3.82	3.82	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-89-6	Iron	27100	797	797	25	D	12/05/16 08:56	EPA 3050B	12/06/16 13:56 LIT	EPA 6010
7439-92-1	Lead	134	1.27	1.27	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-95-4	Magnesium	5830	63.7	63.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-96-5	Manganese	411	2.55	2.55	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-02-0	Nickel	18.7	5.10	5.10	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-09-7	Potassium	1490	63.7	63.7	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7782-49-2	Selenium	ND	2.55	5.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-22-4	Silver	ND	0.637	0.637	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-23-5	Sodium	283	63.7	63.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-28-0	Thallium	ND	1.91	3.82	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-62-2	Vanadium	30.7	6.37	6.37	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-66-6	Zinc	151	7.65	7.65	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Matrix:	Soil
Percent Solids:	79.40	File ID:	120616A-023

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	12000	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-97-6	Mercury	0.202	0.0945	0.0945	1		12/06/16 07:56	EPA 7471A	12/07/16 11:49 PRT	EPA 7471
7440-36-0	Antimony	ND	4.10	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-38-2	Arsenic	1.73	1.02	1.02	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-39-3	Barium	52.5	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.512	0.512	1	U	12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-43-9	Cadmium	0.770	0.512	0.512	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-70-2	Calcium	3580	25.6	25.6	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-47-3	Chromium	21.1	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-48-4	Cobalt	8.71	5.12	5.12	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-50-8	Copper	24.8	3.07	3.07	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-89-6	Iron	20600	640	640	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:01 LIT	EPA 6010
7439-92-1	Lead	48.8	1.02	1.02	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-95-4	Magnesium	5090	51.2	51.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-96-5	Manganese	389	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-02-0	Nickel	15.7	4.10	4.10	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-09-7	Potassium	1230	51.2	51.2	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7782-49-2	Selenium	ND	2.05	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-22-4	Silver	ND	0.512	0.512	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-23-5	Sodium	227	51.2	51.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-28-0	Thallium	ND	1.54	3.07	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-62-2	Vanadium	28.3	5.12	5.12	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-66-6	Zinc	92.3	6.15	6.15	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Matrix:	Soil
Percent Solids:	80.00	File ID:	120616A-024

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	11200	22.6	22.6	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-97-6	Mercury	0.269	0.0938	0.0938	1		12/06/16 07:56	EPA 7471A	12/07/16 11:51 PRT	EPA 7471
7440-36-0	Antimony	ND	4.51	4.51	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-38-2	Arsenic	2.11	1.13	1.13	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-39-3	Barium	69.9	22.6	22.6	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.564	0.564	1	U	12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-43-9	Cadmium	1.15	0.564	0.564	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-70-2	Calcium	7290	28.2	28.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-47-3	Chromium	21.5	2.26	2.26	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-48-4	Cobalt	9.88	5.64	5.64	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-50-8	Copper	48.3	3.38	3.38	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-89-6	Iron	24900	705	705	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:06 LIT	EPA 6010
7439-92-1	Lead	174	1.13	1.13	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-95-4	Magnesium	6270	56.4	56.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-96-5	Manganese	466	2.26	2.26	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-02-0	Nickel	17.6	4.51	4.51	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-09-7	Potassium	1530	56.4	56.4	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7782-49-2	Selenium	ND	2.26	4.51	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-22-4	Silver	ND	0.564	0.564	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-23-5	Sodium	279	56.4	56.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-28-0	Thallium	ND	1.69	3.38	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-62-2	Vanadium	29.7	5.64	5.64	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-66-6	Zinc	127	6.77	6.77	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010

* Values outside of QC limits
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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Matrix:	Soil
Percent Solids:	83.20	File ID:	120616A-025

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	11500	18.2	18.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0901	0.0901	1	U	12/06/16 07:56	EPA 7471A	12/07/16 11:53 PRT	EPA 7471
7440-36-0	Antimony	ND	3.63	3.63	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-38-2	Arsenic	ND	0.908	0.908	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-39-3	Barium	52.5	18.2	18.2	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-41-7	Beryllium	0.526	0.454	0.454	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-43-9	Cadmium	0.695	0.454	0.454	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-70-2	Calcium	1150	22.7	22.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-47-3	Chromium	21.3	1.82	1.82	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-48-4	Cobalt	10.7	4.54	4.54	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-50-8	Copper	19.8	2.72	2.72	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-89-6	Iron	19800	567	567	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:11 LIT	EPA 6010
7439-92-1	Lead	17.3	0.908	0.908	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-95-4	Magnesium	4790	45.4	45.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-96-5	Manganese	360	1.82	1.82	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-02-0	Nickel	17.3	3.63	3.63	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-09-7	Potassium	1760	45.4	45.4	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7782-49-2	Selenium	ND	3.63	3.63	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-22-4	Silver	ND	0.454	0.454	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-23-5	Sodium	126	45.4	45.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-28-0	Thallium	ND	1.36	2.72	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-62-2	Vanadium	33.8	4.54	4.54	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-66-6	Zinc	61.3	5.45	5.45	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010

* Values outside of QC limits
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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Matrix:	Soil
Percent Solids:	81.90	File ID:	120616A-026

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	10300	23.2	23.2	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-97-6	Mercury	0.237	0.0916	0.0916	1		12/06/16 07:56	EPA 7471A	12/07/16 11:55 PRT	EPA 7471
7440-36-0	Antimony	ND	4.65	4.65	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-38-2	Arsenic	2.30	1.16	1.16	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-39-3	Barium	72.2	23.2	23.2	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.581	0.581	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-43-9	Cadmium	1.06	0.581	0.581	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-70-2	Calcium	6750	29.0	29.0	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-47-3	Chromium	19.8	2.32	2.32	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-48-4	Cobalt	9.73	5.81	5.81	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-50-8	Copper	44.3	3.49	3.49	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-89-6	Iron	23200	726	726	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:17 LIT	EPA 6010
7439-92-1	Lead	162	1.16	1.16	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-95-4	Magnesium	6280	58.1	58.1	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-96-5	Manganese	401	2.32	2.32	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-02-0	Nickel	17.4	4.65	4.65	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-09-7	Potassium	1530	58.1	58.1	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7782-49-2	Selenium	ND	2.32	4.65	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-22-4	Silver	ND	0.581	0.581	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-23-5	Sodium	239	58.1	58.1	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-28-0	Thallium	ND	1.74	3.49	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-62-2	Vanadium	29.0	5.81	5.81	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-66-6	Zinc	131	6.97	6.97	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010

* Values outside of QC limits
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RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Matrix:	Soil
Percent Solids:	87.10	File ID:	120616A-027

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	9890	18.5	18.5	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0861	0.0861	1	U	12/06/16 07:56	EPA 7471A	12/07/16 11:57 PRT	EPA 7471
7440-36-0	Antimony	ND	3.71	3.71	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-38-2	Arsenic	1.56	0.927	0.927	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-39-3	Barium	55.1	18.5	18.5	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.463	0.463	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-43-9	Cadmium	0.913	0.463	0.463	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-70-2	Calcium	3270	23.2	23.2	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-47-3	Chromium	18.4	1.85	1.85	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-48-4	Cobalt	10.2	4.63	4.63	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-50-8	Copper	30.7	2.78	2.78	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-89-6	Iron	21400	579	579	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:22 LIT	EPA 6010
7439-92-1	Lead	63.6	0.927	0.927	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-95-4	Magnesium	5080	46.3	46.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-96-5	Manganese	412	1.85	1.85	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-02-0	Nickel	17.2	3.71	3.71	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-09-7	Potassium	1440	46.3	46.3	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7782-49-2	Selenium	ND	3.71	3.71	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-22-4	Silver	ND	0.463	0.463	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-23-5	Sodium	129	46.3	46.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-28-0	Thallium	ND	1.39	2.78	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-62-2	Vanadium	25.9	4.63	4.63	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-66-6	Zinc	100	5.56	5.56	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
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B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Matrix:	Soil
Percent Solids:	86.10	File ID:	120616A-028

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	10600	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-97-6	Mercury	0.0883	0.0871	0.0871	1		12/06/16 07:56	EPA 7471A	12/07/16 11:59 PRT	EPA 7471
7440-36-0	Antimony	ND	4.10	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-38-2	Arsenic	1.73	1.03	1.03	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-39-3	Barium	42.9	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.513	0.513	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-43-9	Cadmium	0.554	0.513	0.513	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-70-2	Calcium	1380	25.7	25.7	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-47-3	Chromium	17.5	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-48-4	Cobalt	11.1	5.13	5.13	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-50-8	Copper	18.3	3.08	3.08	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-89-6	Iron	18000	641	641	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:27 LIT	EPA 6010
7439-92-1	Lead	31.8	1.03	1.03	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-95-4	Magnesium	4270	51.3	51.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-96-5	Manganese	227	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-02-0	Nickel	16.4	4.10	4.10	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-09-7	Potassium	1110	51.3	51.3	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7782-49-2	Selenium	ND	2.05	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-22-4	Silver	ND	0.513	0.513	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-23-5	Sodium	138	51.3	51.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-28-0	Thallium	ND	1.54	3.08	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-62-2	Vanadium	22.7	5.13	5.13	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-66-6	Zinc	55.6	6.16	6.16	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

WET CHEMISTRY

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Matrix:	Soil
Percent Solids:	79.40	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.0	1.44	1.44	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.52	2.52	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.26	1.26	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	79.4	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Matrix:	Soil
Percent Solids:	76.70	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	20.8	1.96	1.96	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.61	2.61	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.30	1.30	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	76.7	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Matrix:	Soil
Percent Solids:	79.40	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.1	1.63	1.63	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.52	2.52	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.26	1.26	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	79.4	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Matrix:	Soil
Percent Solids:	80.00	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.5	1.81	1.81	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.50	2.50	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.25	1.25	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	80.0	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Matrix:	Soil
Percent Solids:	83.20	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.3	1.51	1.51	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.40	2.40	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.20	1.20	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	83.2	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Matrix:	Soil
Percent Solids:	81.90	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	19.8	1.90	1.90	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.44	2.44	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.22	1.22	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	81.9	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Matrix:	Soil
Percent Solids:	87.10	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	18.4	1.61	1.61	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.30	2.30	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.15	1.15	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	87.1	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

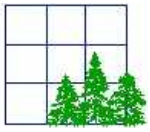
Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Matrix:	Soil
Percent Solids:	86.10	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	17.5	1.77	1.77	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.32	2.32	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.16	1.16	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	86.1	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit



ATTACHMENT XXII

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1501458

Client Sample ID:	Lab Sample ID:
TMW-1	1501458-01
TMW-1	1501458-01RE1

This data has been reviewed and accepted by:

Daniel Miguel 09/23/2015
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Table of Contents

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 8/20/2015 1:15:00 PM.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the MDL level was elevated due to matrix interference. The methylene chloride result reported is due to laboratory contamination.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Semivolatile Organic Compounds EPA Method SW846 8270:
NJ 8270C
NY 8270D

Volatile Organic Compounds EPA Method SW846 8260:
NJ 8260B
NY 8260C

Accredited Analytical Resources, LLC.

Internal Chain of Custody

1501458-01 (A)	*Out*	*In*
Start	8/20/15 13:42 by KMC	8/20/15 13:42 by KMC
Extractions	8/25/15 6:11 by ECS	by ECS
1501458-01 (B)	*Out*	*In*
Start	8/20/15 13:42 by KMC	8/20/15 13:42 by KMC
Walk-In Storage	8/21/15 11:18 by SG	8/24/15 14:07 by SG
VOA Storage	8/24/15 14:07 by DSM	8/24/15 18:08 by DSM
1501458-01 (C)	*Out*	*In*
Start	8/20/15 13:42 by KMC	8/20/15 13:42 by KMC
1501458-01RE1 (A)	*Out*	*In*
Extractions	8/27/15 13:50 by JMM	8/27/15 13:53 by JMM
Extractions	8/27/15 13:53 by JMM	by JMM
1501458-01RE1 (B)	*Out*	*In*
Walk-In Storage	8/25/15 16:32 by DSM	8/27/15 13:46 by DSM
VOA Storage	8/27/15 13:46 by DSM	by DSM

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1501458**

Received: 8/20/15 13:15

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Doug Harm
OFFICE PHONE #:	732-223-2225
OFFICE FAX #:	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	New Jersey
ZIP:	08736

AAR QUOTE #	
AAR WORK ORDER #	1501458
P.O. #	10BR188

ANALYSIS

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	PRES. CODE → / CONT. CODE → TCL VOCs	TCL SVOCs	AAR SAMPLE #
TMW-1	8/20/15 09:55	GW	-	3		X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) (STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Need NYSDEC CATEGORY B Data Package. Also, please compare results to NYSDEC TOGS Ambient Groundwater Quality Standards COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Sean Harrison SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Sean Harrison	Print Name: M. Urbizondo	Print Name:	Print Name:
Signature: [signature]	Signature: [signature]	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AARLLC	Agent of:	Agent of:
Date Received: 8 / 20 / 15	Time: 1:15 PM	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TMW-1	1501458-01	Ground Water	08/20/2015 09:55	08/20/2015 13:15

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

SEMIVOLATILES

Accredited Analytical Resources, LLC.

SEMIVOLATILES SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/25/15 06:03	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 3510C GCMS	File ID:	F11527.D
Prep Batch:	B5H2503	Sequence:	S5H2607	Analyzed:	08/26/15 18:20
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	0.515	2.58	U
108-95-2	Phenol	ND	0.515	2.58	U
111-44-4	bis(2-chloroethyl)ether	ND	0.515	2.58	U
95-57-8	2-Chlorophenol	ND	0.515	2.58	U
541-73-1	1,3-Dichlorobenzene	ND	0.515	2.58	U
106-46-7	1,4-Dichlorobenzene	ND	0.515	2.58	U
100-51-6	Benzyl alcohol	ND	0.515	2.58	U
95-50-1	1,2-Dichlorobenzene	ND	0.515	2.58	U
95-48-7	2-Methylphenol	ND	0.515	2.58	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	0.515	2.58	U
106-44-5	3 & 4-Methylphenol	ND	0.515	2.58	U
621-64-7	N-Nitroso-di-n-propylamine	ND	0.515	2.58	U
67-72-1	Hexachloroethane	ND	0.515	2.58	U
98-95-3	Nitrobenzene	ND	0.515	2.58	U
78-59-1	Isophorone	ND	0.515	2.58	U
88-75-5	2-Nitrophenol	ND	0.515	2.58	U
105-67-9	2,4-Dimethylphenol	ND	0.515	2.58	U
65-85-0	Benzoic acid	ND	2.06	5.15	U
111-91-1	bis(2-chloroethoxy)methane	ND	0.515	2.58	U
120-83-2	2,4-Dichlorophenol	ND	0.515	2.58	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.515	2.58	U
91-20-3	Naphthalene	99.8	0.515	2.58	E
106-47-8	4-Chloroaniline	ND	0.515	2.58	U
87-68-3	Hexachlorobutadiene	ND	0.515	2.58	U
59-50-7	4-Chloro-3-methylphenol	ND	0.515	2.58	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/25/15 06:03	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 3510C GCMS	File ID:	F11527.D
Prep Batch:	B5H2503	Sequence:	S5H2607	Analyzed:	08/26/15 18:20
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	54.9	0.515	2.58	
77-47-4	Hexachlorocyclopentadiene	ND	0.515	2.58	U
88-06-2	2,4,6-Trichlorophenol	ND	0.515	2.58	U
95-95-4	2,4,5-Trichlorophenol	ND	0.515	2.58	U
91-58-7	2-Chloronaphthalene	ND	0.515	2.58	U
88-74-4	2-Nitroaniline	ND	0.515	2.58	U
131-11-3	Dimethylphthalate	ND	0.515	2.58	U
208-96-8	Acenaphthylene	ND	0.515	2.58	U
99-09-2	3-Nitroaniline	ND	0.515	2.58	U
83-32-9	Acenaphthene	ND	0.515	2.58	U
51-28-5	2,4-Dinitrophenol	ND	1.03	5.15	U
100-02-7	4-Nitrophenol	ND	0.515	2.58	U
132-64-9	Dibenzofuran	ND	0.515	2.58	U
606-20-2	2,6-Dinitrotoluene	ND	0.515	2.58	U
121-14-2	2,4-Dinitrotoluene	ND	0.515	2.58	U
84-66-2	Diethyl phthalate	ND	0.515	2.58	U
7005-72-3	4-Chlorophenyl-phenylether	ND	0.515	2.58	U
86-73-7	Fluorene	ND	0.515	2.58	U
100-01-6	4-Nitroaniline	ND	0.515	2.58	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	0.515	2.58	U
86-30-6	N-Nitrosodiphenylamine	ND	0.515	2.58	U
101-55-3	4-Bromophenyl-phenylether	ND	0.515	2.58	U
118-74-1	Hexachlorobenzene	ND	0.515	2.58	U
87-86-5	Pentachlorophenol	ND	0.515	2.58	U
85-01-8	Phenanthrene	0.572	0.103	2.58	J

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/25/15 06:03	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 3510C GCMS	File ID:	F11527.D
Prep Batch:	B5H2503	Sequence:	S5H2607	Analyzed:	08/26/15 18:20
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
120-12-7	Anthracene	ND	0.515	2.58	U
84-74-2	Di-n-butyl phthalate	ND	0.515	2.58	U
206-44-0	Fluoranthene	ND	0.515	2.58	U
129-00-0	Pyrene	ND	0.515	2.58	U
85-68-7	Butylbenzylphthalate	ND	0.515	2.58	U
91-94-1	3,3'-Dichlorobenzidine	ND	0.515	2.58	U
56-55-3	Benzo[a]anthracene	ND	0.103	2.58	U
117-81-7	bis(2-ethylhexyl)phthalate	0.629	0.515	2.58	B, J
218-01-9	Chrysene	ND	0.103	2.58	U
117-84-0	Di-n-octyl phthalate	ND	0.515	2.58	U
205-99-2	Benzo[b]fluoranthene	ND	0.206	2.58	U
207-08-9	Benzo[k]fluoranthene	ND	0.515	2.58	U
50-32-8	Benzo[a]pyrene	ND	0.103	2.58	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.515	2.58	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.206	2.58	U
191-24-2	Benzo[ghi]perylene	ND	0.103	2.58	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	34%	15-110
Phenol-d5	25%	15-110
Nitrobenzene-d5	48%	30-130
2-Fluorobiphenyl	55%	30-130
2,4,6-Tribromophenol	84%	15-110
Terphenyl-d14	67%	30-130

Accredited Analytical Resources, LLC.

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Quantitation Report (QT Reviewed)

Data File : C:\F\DATA15\AUG15\F0826\F11527.D Vial: 7
Acq On : 26 Aug 2015 18:20 Operator: JMM
Sample : 1501458-01 Inst : GC/MS F
Misc : WATER Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 27 9:09 2015 Quant Results File: SVF80528.RES

Quant Method : C:\F\METHODS\SVF80528.M (RTE Integrator)
Title : SEMI-VOA TCL 8270C CALIBRATION HP5971AF
Last Update : Tue Jul 28 14:11:16 2015
Response via : Initial Calibration
DataAcq Meth : SVF80528

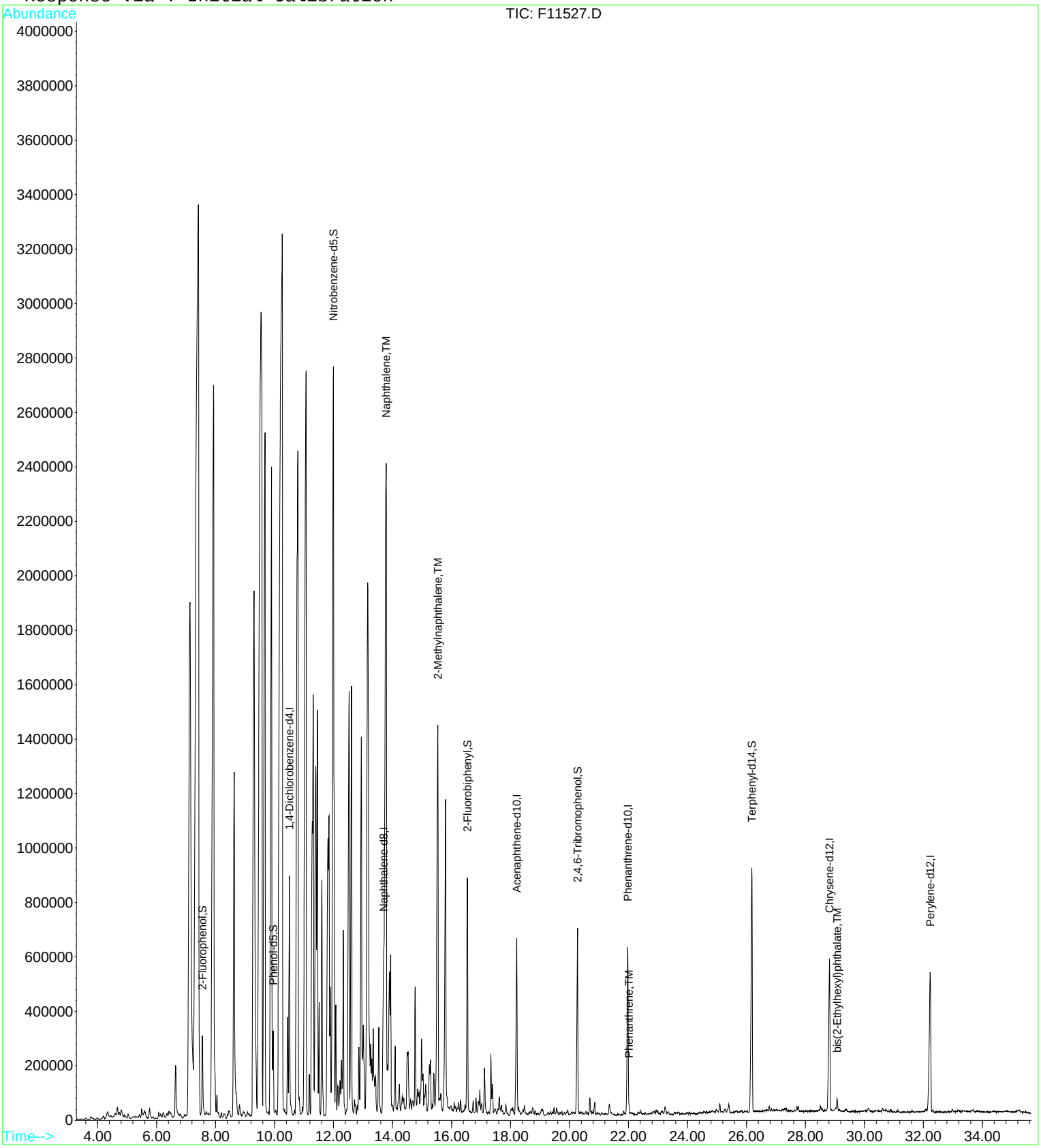
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.50	152	159737	40.00	ul/l	-0.11
21) Naphthalene-d8	13.69	136	684994	40.00	ul/l	-0.14
37) Acenaphthene-d10	18.21	164	332294	40.00	ul/l	-0.18
61) Phenanthrene-d10	21.98	188	620913	40.00	ul/l	-0.20
75) Chrysene-d12	28.82	240	590649	40.00	ul/l	-0.22
84) Perylene-d12	32.23	264	586418	40.00	ul/l	-0.22
System Monitoring Compounds						
4) 2-Fluorophenol	7.56	112	233253	40.59	ul/l	-0.08
Spiked Amount 120.000	Range 21 - 100		Recovery = 33.83%			
7) Phenol-d5	9.95	99	244357	29.98	ul/l	-0.04
Spiked Amount 120.000	Range 10 - 94		Recovery = 24.98%			
22) Nitrobenzene-d5	12.00	82	314281m	47.64	ul/l	-0.09
Spiked Amount 100.000	Range 35 - 114		Recovery = 47.64%			
42) 2-Fluorobiphenyl	16.54	172	666946	54.63	ul/l	-0.18
Spiked Amount 100.000	Range 43 - 116		Recovery = 54.63%			
60) 2,4,6-Tribromophenol	20.27	330	211414	100.69	ul/l	-0.18
Spiked Amount 120.000	Range 10 - 123		Recovery = 83.91%			
78) Terphenyl-d14	26.18	244	808237	67.09	ul/l	-0.17
Spiked Amount 100.000	Range 33 - 141		Recovery = 67.09%			
Target Compounds						Qvalue
31) Naphthalene	13.78	128	3448760	193.52	ul/l	98
36) 2-Methylnaphthalene	15.54	142	1210992	106.53	ul/l	98
71) Phenanthrene	22.02	178	19939	1.11	ul/l	97
82) bis(2-Ethylhexyl)phthalate	29.07	149	21866	1.22	ul/l	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\F\DATA15\AUG15\F0826\F11527.D Vial: 7
Acq On : 26 Aug 2015 18:20 Operator: JMM
Sample : 1501458-01 Inst : GC/MS F
Misc : WATER Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 27 9:09 2015 Quant Results File: SVF80528.RES

Method : C:\F\METHODS\SVF80528.M (RTE Integrator)
Title : SEMI-VOA TCL 8270C CALIBRATION HP5971AF
Last Update : Tue Jul 28 14:11:16 2015
Response via : Initial Calibration



Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01RE1
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/25/15 06:03	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 3510C GCMS	File ID:	F11542.D
Prep Batch:	B5H2503	Sequence:	S5H2708	Analyzed:	08/27/15 16:13
Dilution:	5			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	2.58	12.9	U
108-95-2	Phenol	ND	2.58	12.9	U
111-44-4	bis(2-chloroethyl)ether	ND	2.58	12.9	U
95-57-8	2-Chlorophenol	ND	2.58	12.9	U
541-73-1	1,3-Dichlorobenzene	ND	2.58	12.9	U
106-46-7	1,4-Dichlorobenzene	ND	2.58	12.9	U
100-51-6	Benzyl alcohol	ND	2.58	12.9	U
95-50-1	1,2-Dichlorobenzene	ND	2.58	12.9	U
95-48-7	2-Methylphenol	ND	2.58	12.9	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	2.58	12.9	U
106-44-5	3 & 4-Methylphenol	ND	2.58	12.9	U
621-64-7	N-Nitroso-di-n-propylamine	ND	2.58	12.9	U
67-72-1	Hexachloroethane	ND	2.58	12.9	U
98-95-3	Nitrobenzene	ND	2.58	12.9	U
78-59-1	Isophorone	ND	2.58	12.9	U
88-75-5	2-Nitrophenol	ND	2.58	12.9	U
105-67-9	2,4-Dimethylphenol	ND	2.58	12.9	U
65-85-0	Benzoic acid	ND	10.3	25.8	U
111-91-1	bis(2-chloroethoxy)methane	ND	2.58	12.9	U
120-83-2	2,4-Dichlorophenol	ND	2.58	12.9	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.58	12.9	U
91-20-3	Naphthalene	117	2.58	12.9	D
106-47-8	4-Chloroaniline	ND	2.58	12.9	U
87-68-3	Hexachlorobutadiene	ND	2.58	12.9	U
59-50-7	4-Chloro-3-methylphenol	ND	2.58	12.9	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01RE1
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/25/15 06:03	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 3510C GCMS	File ID:	F11542.D
Prep Batch:	B5H2503	Sequence:	S5H2708	Analyzed:	08/27/15 16:13
Dilution:	5			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	62.0	2.58	12.9	D
77-47-4	Hexachlorocyclopentadiene	ND	2.58	12.9	U
88-06-2	2,4,6-Trichlorophenol	ND	2.58	12.9	U
95-95-4	2,4,5-Trichlorophenol	ND	2.58	12.9	U
91-58-7	2-Chloronaphthalene	ND	2.58	12.9	U
88-74-4	2-Nitroaniline	ND	2.58	12.9	U
131-11-3	Dimethylphthalate	ND	2.58	12.9	U
208-96-8	Acenaphthylene	ND	2.58	12.9	U
99-09-2	3-Nitroaniline	ND	2.58	12.9	U
83-32-9	Acenaphthene	ND	2.58	12.9	U
51-28-5	2,4-Dinitrophenol	ND	5.15	25.8	U
100-02-7	4-Nitrophenol	ND	2.58	12.9	U
132-64-9	Dibenzofuran	ND	2.58	12.9	U
606-20-2	2,6-Dinitrotoluene	ND	2.58	12.9	U
121-14-2	2,4-Dinitrotoluene	ND	2.58	12.9	U
84-66-2	Diethyl phthalate	ND	2.58	12.9	U
7005-72-3	4-Chlorophenyl-phenylether	ND	2.58	12.9	U
86-73-7	Fluorene	ND	2.58	12.9	U
100-01-6	4-Nitroaniline	ND	2.58	12.9	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	2.58	12.9	U
86-30-6	N-Nitrosodiphenylamine	ND	2.58	12.9	U
101-55-3	4-Bromophenyl-phenylether	ND	2.58	12.9	U
118-74-1	Hexachlorobenzene	ND	2.58	12.9	U
87-86-5	Pentachlorophenol	ND	2.58	12.9	U
85-01-8	Phenanthrene	ND	0.515	12.9	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01RE1
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/25/15 06:03	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 3510C GCMS	File ID:	F11542.D
Prep Batch:	B5H2503	Sequence:	S5H2708	Analyzed:	08/27/15 16:13
Dilution:	5			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
120-12-7	Anthracene	ND	2.58	12.9	U
84-74-2	Di-n-butyl phthalate	ND	2.58	12.9	U
206-44-0	Fluoranthene	ND	2.58	12.9	U
129-00-0	Pyrene	ND	2.58	12.9	U
85-68-7	Butylbenzylphthalate	ND	2.58	12.9	U
91-94-1	3,3'-Dichlorobenzidine	ND	2.58	12.9	U
56-55-3	Benzo[a]anthracene	ND	0.515	12.9	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	2.58	12.9	U
218-01-9	Chrysene	ND	0.515	12.9	U
117-84-0	Di-n-octyl phthalate	ND	2.58	12.9	U
205-99-2	Benzo[b]fluoranthene	ND	1.03	12.9	U
207-08-9	Benzo[k]fluoranthene	ND	2.58	12.9	U
50-32-8	Benzo[a]pyrene	ND	0.515	12.9	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.58	12.9	U
53-70-3	Dibenzo(a,h)anthracene	ND	1.03	12.9	U
191-24-2	Benzo[ghi]perylene	ND	0.515	12.9	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	29%	15-110
Phenol-d5	24%	15-110
Nitrobenzene-d5	54%	30-130
2-Fluorobiphenyl	56%	30-130
2,4,6-Tribromophenol	69%	15-110
Terphenyl-d14	71%	30-130

Accredited Analytical Resources, LLC.

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Quantitation Report (QT Reviewed)

Data File : C:\F\DATA15\AUG15\F0827\F11542.D Vial: 5
Acq On : 27 Aug 2015 16:13 Operator: JMM
Sample : 1501458-01RE1@5 Inst : GC/MS F
Misc : WATER Multiplr: 5.00
MS Integration Params: rteint.p
Quant Time: Aug 27 16:53 2015 Quant Results File: SVF80528.RES

Quant Method : C:\F\METHODS\SVF80528.M (RTE Integrator)
Title : SEMI-VOA TCL 8270C CALIBRATION HP5971AF
Last Update : Tue Jul 28 14:11:16 2015
Response via : Initial Calibration
DataAcq Meth : SVF80528

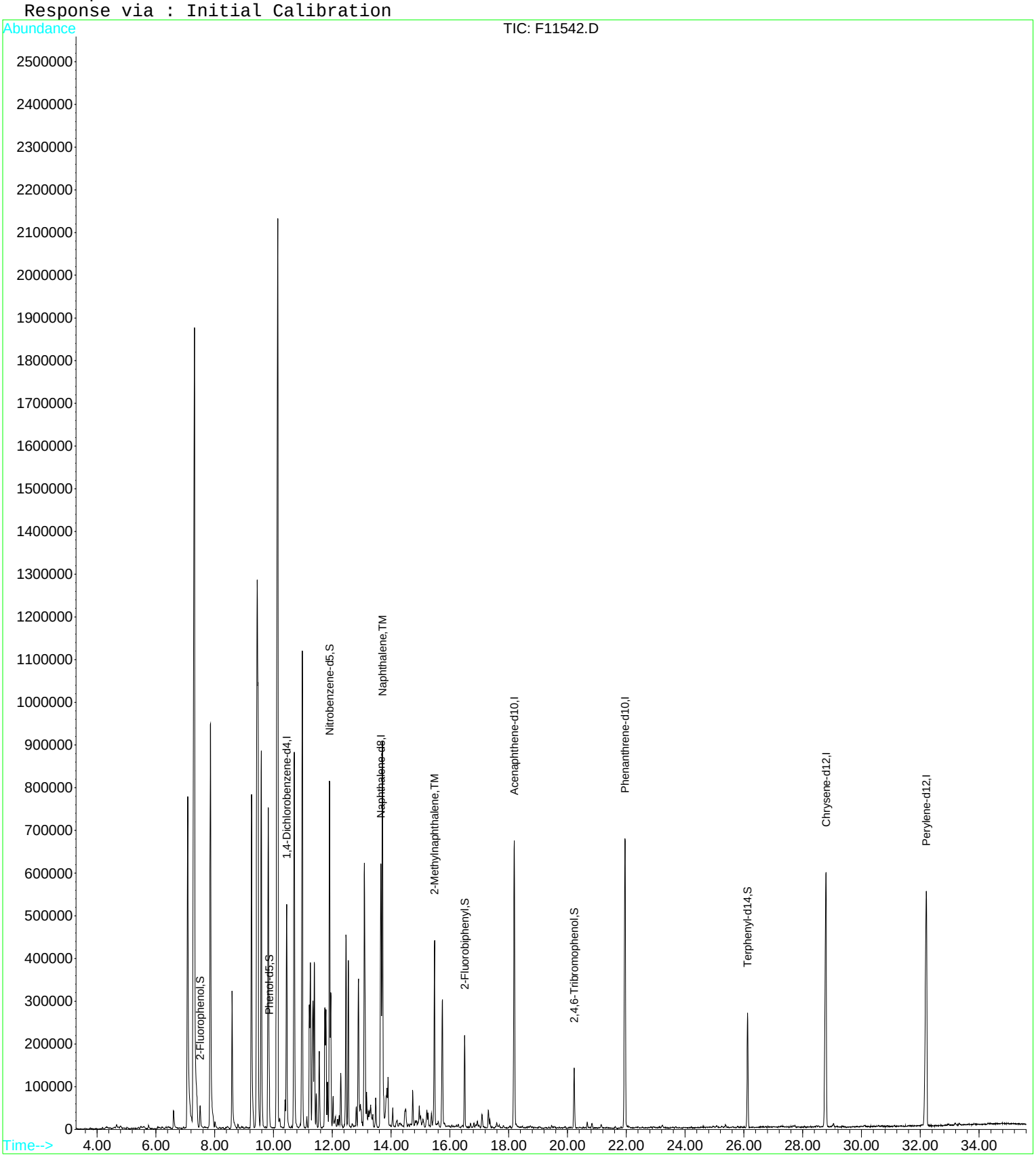
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.45	152	157863	40.00	ul/l	-0.16
21) Naphthalene-d8	13.65	136	693911	40.00	ul/l	-0.18
37) Acenaphthene-d10	18.19	164	340890	40.00	ul/l	-0.20
61) Phenanthrene-d10	21.95	188	681741	40.00	ul/l	-0.22
75) Chrysene-d12	28.79	240	637906	40.00	ul/l	-0.24
84) Perylene-d12	32.20	264	647317	40.00	ul/l	-0.24
System Monitoring Compounds						
4) 2-Fluorophenol	7.51	112	39337	6.93	ul/l	-0.13
Spiked Amount 120.000	Range 21 - 100		Recovery = 5.77%#			
7) Phenol-d5	9.86	99	46130	5.73	ul/l	-0.14
Spiked Amount 120.000	Range 10 - 94		Recovery = 4.78%#			
22) Nitrobenzene-d5	11.90	82	72560	10.86	ul/l	-0.19
Spiked Amount 100.000	Range 35 - 114		Recovery = 10.86%#			
42) 2-Fluorobiphenyl	16.50	172	141096	11.27	ul/l	-0.21
Spiked Amount 100.000	Range 43 - 116		Recovery = 11.27%#			
60) 2,4,6-Tribromophenol	20.23	330	35688	16.57	ul/l	-0.23
Spiked Amount 120.000	Range 10 - 123		Recovery = 13.81%			
78) Terphenyl-d14	26.13	244	185434	14.25	ul/l	-0.23
Spiked Amount 100.000	Range 33 - 141		Recovery = 14.25%#			
Target Compounds						Qvalue
31) Naphthalene	13.71	128	816352	45.22	ul/l	99
36) 2-Methylnaphthalene	15.48	142	277016	24.06	ul/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\F\DATA15\AUG15\F0827\F11542.D Vial: 5
Acq On : 27 Aug 2015 16:13 Operator: JMM
Sample : 1501458-01RE1@5 Inst : GC/MS F
Misc : WATER Multiplr: 5.00
MS Integration Params: rteint.p
Quant Time: Aug 27 16:53 2015 Quant Results File: SVF80528.RES

Method : C:\F\METHODS\SVF80528.M (RTE Integrator)
Title : SEMI-VOA TCL 8270C CALIBRATION HP5971AF
Last Update : Tue Jul 28 14:11:16 2015
Response via : Initial Calibration



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SEMIVOLATILES QC DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Matrix:	Aqueous	Laboratory ID:	B5H2503-BLK1	File ID:	F11528.D
Batch:	B5H2503	Prepared:	08/25/15 06:03	Analyzed:	08/26/15 19:06
Column:	1	Preparation:	EPA 3510C GCMS	Dilution:	
		Sequence:	S5H2607	Instrument:	GC/MS F

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	0.500	2.50	U
108-95-2	Phenol	ND	0.500	2.50	U
111-44-4	bis(2-chloroethyl)ether	ND	0.500	2.50	U
95-57-8	2-Chlorophenol	ND	0.500	2.50	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	2.50	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	2.50	U
100-51-6	Benzyl alcohol	ND	0.500	2.50	U
95-50-1	1,2-Dichlorobenzene	ND	0.500	2.50	U
95-48-7	2-Methylphenol	ND	0.500	2.50	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	0.500	2.50	U
106-44-5	3 & 4-Methylphenol	ND	0.500	2.50	U
621-64-7	N-Nitroso-di-n-propylamine	ND	0.500	2.50	U
67-72-1	Hexachloroethane	ND	0.500	2.50	U
98-95-3	Nitrobenzene	ND	0.500	2.50	U
78-59-1	Isophorone	ND	0.500	2.50	U
88-75-5	2-Nitrophenol	ND	0.500	2.50	U
105-67-9	2,4-Dimethylphenol	ND	0.500	2.50	U
65-85-0	Benzoic acid	ND	2.00	5.00	U
111-91-1	bis(2-chloroethoxy)methane	ND	0.500	2.50	U
120-83-2	2,4-Dichlorophenol	ND	0.500	2.50	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	2.50	U
91-20-3	Naphthalene	ND	0.500	2.50	U
106-47-8	4-Chloroaniline	ND	0.500	2.50	U
87-68-3	Hexachlorobutadiene	ND	0.500	2.50	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Matrix:	Aqueous	Laboratory ID:	B5H2503-BLK1	File ID:	F11528.D
Batch:	B5H2503	Prepared:	08/25/15 06:03	Analyzed:	08/26/15 19:06
Column:	1	Preparation:	EPA 3510C GCMS	Dilution:	
		Sequence:	S5H2607	Instrument:	GC/MS F

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
59-50-7	4-Chloro-3-methylphenol	ND	0.500	2.50	U
91-57-6	2-Methylnaphthylene	ND	0.500	2.50	U
77-47-4	Hexachlorocyclopentadiene	ND	0.500	2.50	U
88-06-2	2,4,6-Trichlorophenol	ND	0.500	2.50	U
95-95-4	2,4,5-Trichlorophenol	ND	0.500	2.50	U
91-58-7	2-Chloronaphthalene	ND	0.500	2.50	U
88-74-4	2-Nitroaniline	ND	0.500	2.50	U
131-11-3	Dimethylphthalate	ND	0.500	2.50	U
208-96-8	Acenaphthylene	ND	0.500	2.50	U
99-09-2	3-Nitroaniline	ND	0.500	2.50	U
83-32-9	Acenaphthene	ND	0.500	2.50	U
51-28-5	2,4-Dinitrophenol	ND	1.00	5.00	U
100-02-7	4-Nitrophenol	ND	0.500	2.50	U
132-64-9	Dibenzofuran	ND	0.500	2.50	U
606-20-2	2,6-Dinitrotoluene	ND	0.500	2.50	U
121-14-2	2,4-Dinitrotoluene	ND	0.500	2.50	U
84-66-2	Diethyl phthalate	ND	0.500	2.50	U
7005-72-3	4-Chlorophenyl-phenylether	ND	0.500	2.50	U
86-73-7	Fluorene	ND	0.500	2.50	U
100-01-6	4-Nitroaniline	ND	0.500	2.50	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	0.500	2.50	U
86-30-6	N-Nitrosodiphenylamine	ND	0.500	2.50	U
101-55-3	4-Bromophenyl-phenylether	ND	0.500	2.50	U
118-74-1	Hexachlorobenzene	ND	0.500	2.50	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Matrix:	Aqueous	Laboratory ID:	B5H2503-BLK1	File ID:	F11528.D
Batch:	B5H2503	Prepared:	08/25/15 06:03	Analyzed:	08/26/15 19:06
Column:	1	Preparation:	EPA 3510C GCMS	Dilution:	
		Sequence:	S5H2607	Instrument:	GC/MS F

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
87-86-5	Pentachlorophenol	ND	0.500	2.50	U
85-01-8	Phenanthrene	ND	0.100	2.50	U
120-12-7	Anthracene	ND	0.500	2.50	U
84-74-2	Di-n-butyl phthalate	ND	0.500	2.50	U
206-44-0	Fluoranthene	ND	0.500	2.50	U
129-00-0	Pyrene	ND	0.500	2.50	U
85-68-7	Butylbenzylphthalate	ND	0.500	2.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	0.500	2.50	U
56-55-3	Benzo[a]anthracene	ND	0.100	2.50	U
117-81-7	bis(2-ethylhexyl)phthalate	2.22	0.500	2.50	J
218-01-9	Chrysene	ND	0.100	2.50	U
117-84-0	Di-n-octyl phthalate	ND	0.500	2.50	U
205-99-2	Benzo[b]fluoranthene	ND	0.200	2.50	U
207-08-9	Benzo[k]fluoranthene	ND	0.500	2.50	U
50-32-8	Benzo[a]pyrene	ND	0.100	2.50	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.500	2.50	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.200	2.50	U
191-24-2	Benzo[ghi]perylene	ND	0.100	2.50	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	45%	15-110
Phenol-d5	48%	15-110
Nitrobenzene-d5	54%	30-130
2-Fluorobiphenyl	47%	30-130
2,4,6-Tribromophenol	69%	15-110
Terphenyl-d14	71%	30-130

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* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Quantitation Report (QT Reviewed)

Data File : C:\F\DATA15\AUG15\F0826\F11528.D Vial: 8
Acq On : 26 Aug 2015 19:06 Operator: JMM
Sample : B5H2503-BLK1 Inst : GC/MS F
Misc : WATER Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 27 9:10 2015 Quant Results File: SVF80528.RES

Quant Method : C:\F\METHODS\SVF80528.M (RTE Integrator)
Title : SEMI-VOA TCL 8270C CALIBRATION HP5971AF
Last Update : Tue Jul 28 14:11:16 2015
Response via : Initial Calibration
DataAcq Meth : SVF80528

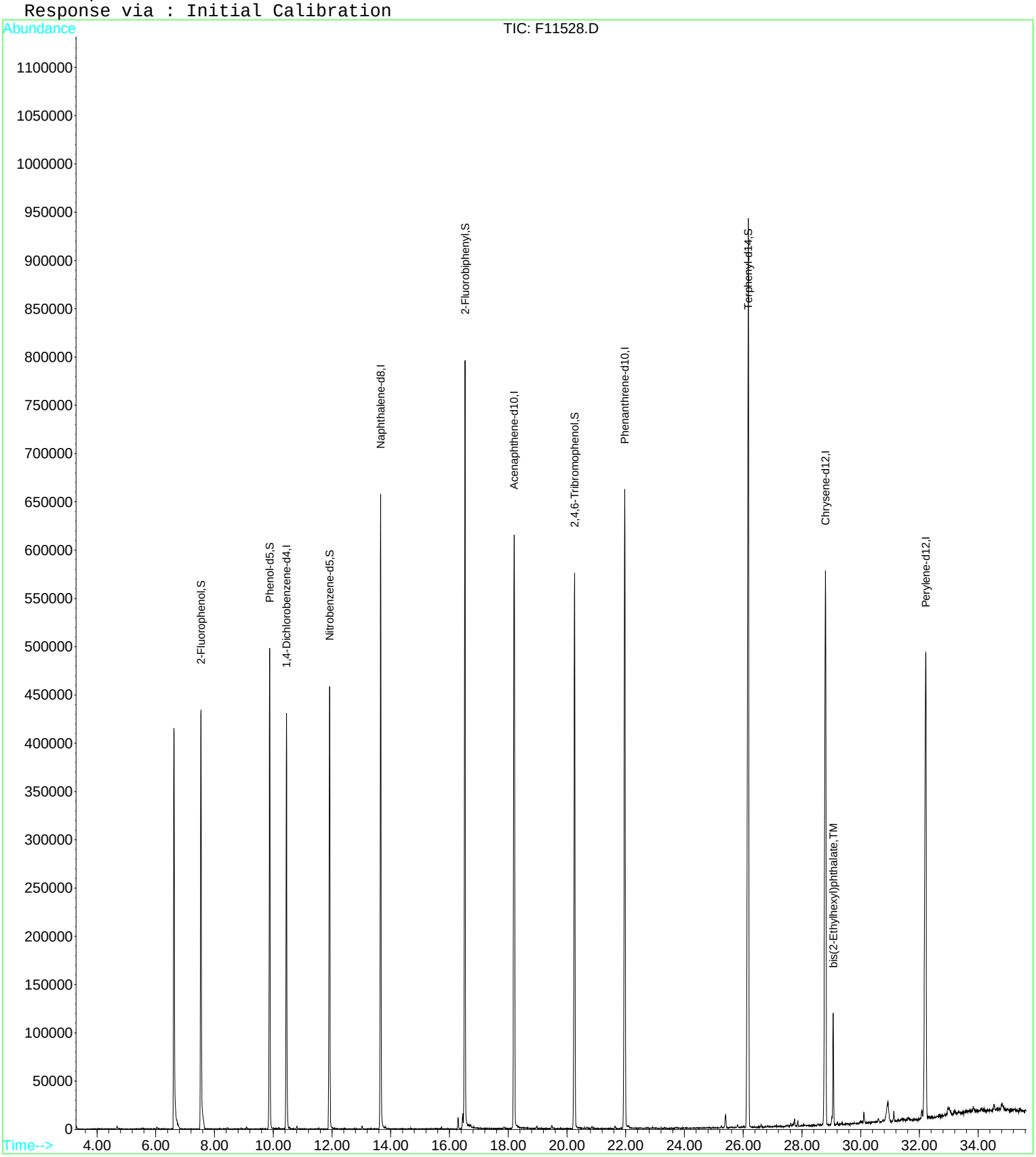
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.45	152	146144	40.00	ul/l	-0.16
21) Naphthalene-d8	13.66	136	652663	40.00	ul/l	-0.17
37) Acenaphthene-d10	18.20	164	323072	40.00	ul/l	-0.19
61) Phenanthrene-d10	21.97	188	619348	40.00	ul/l	-0.21
75) Chrysene-d12	28.80	240	583005	40.00	ul/l	-0.23
84) Perylene-d12	32.21	264	528703	40.00	ul/l	-0.23
System Monitoring Compounds						
4) 2-Fluorophenol	7.54	112	286475	54.49	ul/l	-0.09
Spiked Amount 120.000	Range 21 - 100		Recovery = 45.41%			
7) Phenol-d5	9.88	99	428650	57.48	ul/l	-0.11
Spiked Amount 120.000	Range 10 - 94		Recovery = 47.90%			
22) Nitrobenzene-d5	11.92	82	341106	54.27	ul/l	-0.17
Spiked Amount 100.000	Range 35 - 114		Recovery = 54.27%			
42) 2-Fluorobiphenyl	16.53	172	562575	47.39	ul/l	-0.19
Spiked Amount 100.000	Range 43 - 116		Recovery = 47.39%			
60) 2,4,6-Tribromophenol	20.26	330	170224	83.39	ul/l	-0.19
Spiked Amount 120.000	Range 10 - 123		Recovery = 69.49%			
78) Terphenyl-d14	26.17	244	847389	71.27	ul/l	-0.18
Spiked Amount 100.000	Range 33 - 141		Recovery = 71.27%			
Target Compounds						Qvalue
82) bis(2-Ethylhexyl)phthalate	29.07	149	78468	4.43	ul/l	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\F\DATA15\AUG15\F0826\F11528.D Vial: 8
Acq On : 26 Aug 2015 19:06 Operator: JMM
Sample : B5H2503-BLK1 Inst : GC/MS F
Misc : WATER Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 27 9:10 2015 Quant Results File: SVF80528.RES

Method : C:\F\METHODS\SVF80528.M (RTE Integrator)
Title : SEMI-VOA TCL 8270C CALIBRATION HP5971AF
Last Update : Tue Jul 28 14:11:16 2015
Response via : Initial Calibration



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SEMIVOLATILES QC SUMMARY

Accredited Analytical Resources, LLC.

SYSTEM MONITORING COMPOUND SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix: Aqueous
Instrument: GC/MS F

Lab Sample ID:	2FP (15% - 110%)	FBP (30% - 130%)	NBZ (30% - 130%)	PHL (15% - 110%)	TBP (15% - 110%)	TPH (30% - 130%)
1501458-01	34	55	48	25	84	67
1501458-01RE1	29	56	54	24	69	71
B5H2503-BLK1	45	47	54	48	69	71
B5H2503-BS1	61	63	71	61	83	77
B5H2503-BSD1	61	63	73	62	89	83

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LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Prep Method:	EPA 3510C GCMS
Prep Batch:	B5H2503	Lab Sample ID:	B5H2503-BS1

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Pyridine	25.0	19.2	77	20 - 160
N-Nitrosodimethylamine	25.0	20.9	84	20 - 160
Aniline	25.0	19.1	76	20 - 160
Phenol	25.0	25.4	101	20 - 160
bis(2-chloroethyl)ether	25.0	24.4	98	70 - 130
2-Chlorophenol	25.0	25.2	101	70 - 130
1,3-Dichlorobenzene	25.0	22.6	91	70 - 130
1,4-Dichlorobenzene	25.0	23.1	92	70 - 130
Benzyl alcohol	25.0	27.0	108	20 - 160
1,2-Dichlorobenzene	25.0	23.0	92	70 - 130
2-Methylphenol	25.0	25.2	101	70 - 130
bis(2-chloroisopropyl)ether	25.0	25.0	100	70 - 130
3 & 4-Methylphenol	25.0	26.6	107	20 - 160
N-Nitroso-di-n-propylamine	25.0	25.9	103	70 - 130
Hexachloroethane	25.0	22.9	92	20 - 160
Nitrobenzene	25.0	24.6	98	70 - 130
Isophorone	25.0	23.2	93	70 - 130
2-Nitrophenol	25.0	23.5	94	70 - 130
2,4-Dimethylphenol	25.0	22.8	91	70 - 130
bis(2-chloroethoxy)methane	25.0	23.0	92	70 - 130
2,4-Dichlorophenol	25.0	23.6	95	70 - 130
1,2,4-Trichlorobenzene	25.0	21.6	86	70 - 130
Naphthalene	25.0	23.2	93	70 - 130
4-Chloroaniline	25.0	10.8	43	20 - 160
Hexachlorobutadiene	25.0	21.7	87	70 - 130
4-Chloro-3-methylphenol	25.0	26.0	104	70 - 130
2-Methylnaphthylene	25.0	22.9	92	70 - 130
Hexachlorocyclopentadiene	25.0	14.5	58	20 - 160

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Prep Method:	EPA 3510C GCMS
Prep Batch:	B5H2503	Lab Sample ID:	B5H2503-BS1

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2,4,6-Trichlorophenol	25.0	22.7	91	70 - 130
2,4,5-Trichlorophenol	25.0	22.3	89	70 - 130
2-Chloronaphthalene	25.0	23.9	96	70 - 130
2-Nitroaniline	25.0	27.5	110	70 - 130
Dimethylphthalate	25.0	23.8	95	70 - 130
Acenaphthylene	25.0	22.8	91	70 - 130
3-Nitroaniline	25.0	18.6	74	70 - 130
Acenaphthene	25.0	23.2	93	70 - 130
2,4-Dinitrophenol	25.0	20.5	82	20 - 160
4-Nitrophenol	25.0	24.1	96	20 - 160
Dibenzofuran	25.0	23.2	93	70 - 130
2,6-Dinitrotoluene	25.0	24.4	98	70 - 130
2,4-Dinitrotoluene	25.0	25.6	103	70 - 130
Diethyl phthalate	25.0	25.0	100	70 - 130
4-Chlorophenyl-phenylether	25.0	23.0	92	70 - 130
Fluorene	25.0	23.3	93	70 - 130
4-Nitroaniline	25.0	24.4	98	70 - 130
4,6-Dinitro-2-methylphenol	25.0	24.4	97	70 - 130
Carbazole	25.0	24.0	96	70 - 130
N-Nitrosodiphenylamine	25.0	22.6	91	70 - 130
Azobenzene	25.0	24.7	99	70 - 130
4-Bromophenyl-phenylether	25.0	22.1	89	70 - 130
Hexachlorobenzene	25.0	21.6	86	70 - 130
Pentachlorophenol	25.0	20.0	80	20 - 160
Phenanthrene	25.0	22.3	89	70 - 130
Anthracene	25.0	22.3	89	70 - 130
Di-n-butyl phthalate	25.0	23.8	95	70 - 130
Fluoranthene	25.0	22.6	90	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Prep Method:	EPA 3510C GCMS
Prep Batch:	B5H2503	Lab Sample ID:	B5H2503-BS1

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Pyrene	25.0	22.7	91	70 - 130
Butylbenzylphthalate	25.0	24.7	99	70 - 130
Benzo[a]anthracene	25.0	23.1	92	70 - 130
bis(2-ethylhexyl)phthalate	25.0	23.2	93	70 - 130
Chrysene	25.0	21.9	88	70 - 130
Di-n-octyl phthalate	25.0	24.4	98	70 - 130
Benzo[b]fluoranthene	25.0	23.4	94	70 - 130
Benzo[k]fluoranthene	25.0	21.8	87	70 - 130
Benzo[a]pyrene	25.0	23.1	92	70 - 130
Indeno(1,2,3-cd)pyrene	25.0	23.0	92	70 - 130
Dibenzo(a,h)anthracene	25.0	22.7	91	70 - 130
Benzo[ghi]perylene	25.0	23.3	93	70 - 130

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Pyridine	25.0	19.6	78	2	20	20 - 160
N-Nitrosodimethylamine	25.0	22.2	89	6	20	20 - 160
Aniline	25.0	20.0	80	5	20	20 - 160
Phenol	25.0	25.9	104	2	20	20 - 160
bis(2-chloroethyl)ether	25.0	24.4	98	0.2	20	70 - 130
2-Chlorophenol	25.0	25.3	101	0.3	20	70 - 130
1,3-Dichlorobenzene	25.0	22.8	91	0.7	20	70 - 130
1,4-Dichlorobenzene	25.0	23.2	93	0.3	20	70 - 130
Benzyl alcohol	25.0	27.4	110	1	20	20 - 160
1,2-Dichlorobenzene	25.0	23.0	92	0.2	20	70 - 130
2-Methylphenol	25.0	25.3	101	0.6	20	70 - 130
bis(2-chloroisopropyl)ether	25.0	25.3	101	0.9	20	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Prep Method:	EPA 3510C GCMS
Prep Batch:	B5H2503	Lab Sample ID:	B5H2503-BSD1

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #		QC LIMITS RPD	QC LIMITS REC.
3 & 4-Methylphenol	25.0	26.2	105	2		20	20 - 160
N-Nitroso-di-n-propylamine	25.0	26.3	105	2		20	70 - 130
Hexachloroethane	25.0	22.3	89	3		20	20 - 160
Nitrobenzene	25.0	25.3	101	3		20	70 - 130
Isophorone	25.0	24.0	96	3		20	70 - 130
2-Nitrophenol	25.0	24.5	98	5		20	70 - 130
2,4-Dimethylphenol	25.0	22.8	91	0		20	70 - 130
bis(2-chloroethoxy)methane	25.0	23.6	94	2		20	70 - 130
2,4-Dichlorophenol	25.0	23.8	95	0.7		20	70 - 130
1,2,4-Trichlorobenzene	25.0	22.1	89	2		20	70 - 130
Naphthalene	25.0	23.2	93	0.02		20	70 - 130
4-Chloroaniline	25.0	10.2	41	5		20	20 - 160
Hexachlorobutadiene	25.0	21.8	87	0.7		20	70 - 130
4-Chloro-3-methylphenol	25.0	26.4	105	2		20	70 - 130
2-Methylnaphthylene	25.0	23.2	93	1		20	70 - 130
Hexachlorocyclopentadiene	25.0	15.8	63	8		20	20 - 160
2,4,6-Trichlorophenol	25.0	23.6	95	4		20	70 - 130
2,4,5-Trichlorophenol	25.0	23.3	93	5		20	70 - 130
2-Chloronaphthalene	25.0	24.4	97	2		20	70 - 130
2-Nitroaniline	25.0	27.9	112	1		20	70 - 130
Dimethylphthalate	25.0	23.9	95	0.2		20	70 - 130
Acenaphthylene	25.0	23.2	93	2		20	70 - 130
3-Nitroaniline	25.0	19.3	77	4		20	70 - 130
Acenaphthene	25.0	23.4	94	0.9		20	70 - 130
2,4-Dinitrophenol	25.0	25.9	104	23	*	20	20 - 160
4-Nitrophenol	25.0	27.4	110	13		20	20 - 160
Dibenzofuran	25.0	23.4	94	0.9		20	70 - 130
2,6-Dinitrotoluene	25.0	25.5	102	5		20	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Prep Method:	EPA 3510C GCMS
Prep Batch:	B5H2503	Lab Sample ID:	B5H2503-BSD1

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
2,4-Dinitrotoluene	25.0	26.7	107	4	20	70 - 130
Diethyl phthalate	25.0	25.2	101	0.9	20	70 - 130
4-Chlorophenyl-phenylether	25.0	23.2	93	0.7	20	70 - 130
Fluorene	25.0	23.3	93	0.04	20	70 - 130
4-Nitroaniline	25.0	26.3	105	7	20	70 - 130
4,6-Dinitro-2-methylphenol	25.0	26.5	106	9	20	70 - 130
Carbazole	25.0	24.2	97	0.6	20	70 - 130
N-Nitrosodiphenylamine	25.0	22.9	92	1	20	70 - 130
Azobenzene	25.0	26.5	106	7	20	70 - 130
4-Bromophenyl-phenylether	25.0	22.7	91	3	20	70 - 130
Hexachlorobenzene	25.0	22.4	89	4	20	70 - 130
Pentachlorophenol	25.0	21.4	86	7	20	20 - 160
Phenanthrene	25.0	22.1	88	0.9	20	70 - 130
Anthracene	25.0	22.2	89	0.6	20	70 - 130
Di-n-butyl phthalate	25.0	23.8	95	0.08	20	70 - 130
Fluoranthene	25.0	23.0	92	2	20	70 - 130
Pyrene	25.0	22.9	92	1	20	70 - 130
Butylbenzylphthalate	25.0	25.1	101	2	20	70 - 130
Benzo[a]anthracene	25.0	23.5	94	2	20	70 - 130
bis(2-ethylhexyl)phthalate	25.0	23.4	94	0.7	20	70 - 130
Chrysene	25.0	21.9	88	0.05	20	70 - 130
Di-n-octyl phthalate	25.0	24.0	96	2	20	70 - 130
Benzo[b]fluoranthene	25.0	23.1	93	1	20	70 - 130
Benzo[k]fluoranthene	25.0	21.9	88	0.3	20	70 - 130
Benzo[a]pyrene	25.0	22.8	91	1	20	70 - 130
Indeno(1,2,3-cd)pyrene	25.0	22.7	91	1	20	70 - 130
Dibenzo(a,h)anthracene	25.0	22.5	90	0.7	20	70 - 130
Benzo[ghi]perylene	25.0	22.8	91	2	20	70 - 130

Accredited Analytical Resources, LLC.

* Values outside of QC limits

Accredited Analytical Resources, LLC.

METHOD BLANK SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Blank ID:	B5H2503-BLK1	Batch:	B5H2503

Client Sample ID	Laboratory Sample ID	Lab File ID	Analysis Date/Time
TMW-1	1501458-01	F11527.D	08/26/2015 18:20
LCS	B5H2503-BS1	F11539.D	08/27/2015 13:50
LCS Dup	B5H2503-BSD1	F11540.D	08/27/2015 14:38
TMW-1	1501458-01RE1	F11542.D	08/27/2015 16:13

Accredited Analytical Resources, LLC.

INSTRUMENT PERFORMANCE CHECK

EPA 8270

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1501458
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street
Lab File ID:	F10672.D	Injection Date:	05/28/15
Instrument ID:	GC/MS F	Injection Time:	11:15
Sequence:	S5E2815	Lab Sample ID:	S5E2815-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	38.2	PASS
68	Less than 2% of 69	0.766	PASS
69	Less than 100% of 198	51.2	PASS
70	Less than 2% of 69	0.151	PASS
127	40 - 60% of 198	43.1	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.5	PASS
275	10 - 30% of 198	18.4	PASS
365	1 - 100% of 198	1.81	PASS
441	0.01 - 100% of 443	74.6	PASS
442	40 - 100% of 198	72.2	PASS
443	17 - 23% of 442	19.3	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Cal Standard	S5E2815-CAL4	F10673.D	05/28/2015	11:38:00
Cal Standard	S5E2815-CAL6	F10674.D	05/28/2015	12:23:00
Cal Standard	S5E2815-CAL1	F10675.D	05/28/2015	13:08:00
Cal Standard	S5E2815-CAL2	F10676.D	05/28/2015	13:53:00
Cal Standard	S5E2815-CAL3	F10677.D	05/28/2015	14:38:00
Cal Standard	S5E2815-CAL5	F10678.D	05/28/2015	15:24:00

Accredited Analytical Resources, LLC.

INSTRUMENT PERFORMANCE CHECK

EPA 8270

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1501458
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street
Lab File ID:	F11519.D	Injection Date:	08/26/15
Instrument ID:	GC/MS F	Injection Time:	12:37
Sequence:	S5H2607	Lab Sample ID:	S5H2607-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	33.9	PASS
68	Less than 2% of 69	0.36	PASS
69	Less than 100% of 198	48.5	PASS
70	Less than 2% of 69	0.231	PASS
127	40 - 60% of 198	41.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	5.96	PASS
275	10 - 30% of 198	17.6	PASS
365	1 - 100% of 198	1.71	PASS
441	0.01 - 100% of 443	82.3	PASS
442	40 - 100% of 198	65.6	PASS
443	17 - 23% of 442	17.8	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Calibration Check	S5H2607-CCV1	F11520.D	08/26/2015	12:53:00
TMW-1	1501458-01	F11527.D	08/26/2015	18:20:00
Blank	B5H2503-BLK1	F11528.D	08/26/2015	19:06:00

Accredited Analytical Resources, LLC.

INSTRUMENT PERFORMANCE CHECK

EPA 8270

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1501458
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street
Lab File ID:	F11536.D	Injection Date:	08/27/15
Instrument ID:	GC/MS F	Injection Time:	11:13
Sequence:	S5H2708	Lab Sample ID:	S5H2708-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	37.4	PASS
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	55	PASS
70	Less than 2% of 69	0.0249	PASS
127	40 - 60% of 198	43.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.72	PASS
275	10 - 30% of 198	17.7	PASS
365	1 - 100% of 198	1.95	PASS
441	0.01 - 100% of 443	87.2	PASS
442	40 - 100% of 198	62.6	PASS
443	17 - 23% of 442	18	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Calibration Check	S5H2708-CCV1	F11537.D	08/27/2015	12:17:00
LCS	B5H2503-BS1	F11539.D	08/27/2015	13:50:00
LCS Dup	B5H2503-BSD1	F11540.D	08/27/2015	14:38:00
TMW-1	1501458-01RE1	F11542.D	08/27/2015	16:13:00

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Sequence: S5H2607 Instrument: GC/MS F
Calibration: 15F1602

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S5H2607-CCV1)			*Lab File ID: F11520.D*			*Analyzed: 08/26/15 12:53*			
1,4-Dichlorobenzene-d4	149978	10.46	164732	10.41	91	50 - 200	0.0500	+/-0.50	
Naphthalene-d8	663175	13.68	656328	13.63	101	50 - 200	0.0500	+/-0.50	
Acenaphthene-d10	296548	18.22	263091	18.17	113	50 - 200	0.0500	+/-0.50	
Phenanthrene-d10	549746	21.99	491374	21.91	112	50 - 200	0.0800	+/-0.50	
Chrysene-d12	488962	28.84	458512	28.75	107	50 - 200	0.0900	+/-0.50	
Perylene-d12	484037	32.25	477734	32.14	101	50 - 200	0.1100	+/-0.50	
TMW-1 (1501458-01)			*Lab File ID: F11527.D*			*Analyzed: 08/26/15 18:20*			
1,4-Dichlorobenzene-d4	159737	10.5	149978	10.46	107	50 - 200	0.0400	+/-0.50	
Naphthalene-d8	684994	13.69	663175	13.68	103	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	332294	18.21	296548	18.22	112	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	620913	21.98	549746	21.99	113	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	590649	28.82	488962	28.84	121	50 - 200	-0.0200	+/-0.50	
Perylene-d12	586418	32.23	484037	32.25	121	50 - 200	-0.0200	+/-0.50	
Blank (B5H2503-BLK1)			*Lab File ID: F11528.D*			*Analyzed: 08/26/15 19:06*			
1,4-Dichlorobenzene-d4	146144	10.45	149978	10.46	97	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	652663	13.66	663175	13.68	98	50 - 200	-0.0200	+/-0.50	
Acenaphthene-d10	323072	18.2	296548	18.22	109	50 - 200	-0.0200	+/-0.50	
Phenanthrene-d10	619348	21.97	549746	21.99	113	50 - 200	-0.0200	+/-0.50	
Chrysene-d12	583005	28.8	488962	28.84	119	50 - 200	-0.0400	+/-0.50	
Perylene-d12	528703	32.21	484037	32.25	109	50 - 200	-0.0400	+/-0.50	

* Values outside of QC limits

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Sequence: S5H2708 Instrument: GC/MS F
Calibration: 15F1602

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S5H2708-CCV1)			*Lab File ID: F11537.D*			*Analyzed: 08/27/15 12:17*			
1,4-Dichlorobenzene-d4	161933	10.44	164732	10.41	98	50 - 200	0.0300	+/-0.50	
Naphthalene-d8	719873	13.66	656328	13.63	110	50 - 200	0.0300	+/-0.50	
Acenaphthene-d10	334461	18.21	263091	18.17	127	50 - 200	0.0400	+/-0.50	
Phenanthrene-d10	670118	21.98	491374	21.91	136	50 - 200	0.0700	+/-0.50	
Chrysene-d12	642058	28.83	458512	28.75	140	50 - 200	0.0800	+/-0.50	
Perylene-d12	646844	32.24	477734	32.14	135	50 - 200	0.1000	+/-0.50	
LCS (B5H2503-BS1)			*Lab File ID: F11539.D*			*Analyzed: 08/27/15 13:50*			
1,4-Dichlorobenzene-d4	127725	10.44	161933	10.44	79	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	574251	13.65	719873	13.66	80	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	263470	18.2	334461	18.21	79	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	515344	21.96	670118	21.98	77	50 - 200	-0.0200	+/-0.50	
Chrysene-d12	476710	28.81	642058	28.83	74	50 - 200	-0.0200	+/-0.50	
Perylene-d12	478219	32.21	646844	32.24	74	50 - 200	-0.0300	+/-0.50	
LCS Dup (B5H2503-BSD1)			*Lab File ID: F11540.D*			*Analyzed: 08/27/15 14:38*			
1,4-Dichlorobenzene-d4	152065	10.44	161933	10.44	94	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	677681	13.66	719873	13.66	94	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	306608	18.21	334461	18.21	92	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	603575	21.97	670118	21.98	90	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	556373	28.81	642058	28.83	87	50 - 200	-0.0200	+/-0.50	
Perylene-d12	569131	32.23	646844	32.24	88	50 - 200	-0.0100	+/-0.50	

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Sequence: S5H2708 Instrument: GC/MS F
Calibration: 15F1602

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
TMW-1 (1501458-01RE1)			*Lab File ID: F11542.D*			*Analyzed: 08/27/15 16:13*			
1,4-Dichlorobenzene-d4	157863	10.45	161933	10.44	97	50 - 200	0.0100	+/-0.50	
Naphthalene-d8	693911	13.65	719873	13.66	96	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	340890	18.19	334461	18.21	102	50 - 200	-0.0200	+/-0.50	
Phenanthrene-d10	681741	21.95	670118	21.98	102	50 - 200	-0.0300	+/-0.50	
Chrysene-d12	637906	28.79	642058	28.83	99	50 - 200	-0.0400	+/-0.50	
Perylene-d12	647317	32.2	646844	32.24	100	50 - 200	-0.0400	+/-0.50	

* Values outside of QC limits

Accredited Analytical Resources, LLC.

SEMIVOLATILES CALIBRATION DATA

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration: 15F1602 Instrument: GC/MS F
Calibration Date: 5/28/2015 1:16:38PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Pyridine	5	1.356227	10	1.33329	20	1.448612	50	1.510555	80	1.331544	120	1.318605
N-Nitrosodimethylamine	5	1.041567	10	1.050243	20	1.012547	50	1.12696	80	1.068454	120	1.080101
Benzaldehyde	5	0.1503948	10	0.1685508	20	0.1694507	50	0.1592647	80	0.1645981	120	0.1468821
Aniline	5	2.799738	10	2.622689	20	2.727217	50	2.698774	80	2.609138	120	2.595384
Phenol	5	2.145242	10	2.23956	20	2.225162	50	2.177836	80	2.143965	120	1.94104
bis(2-chloroethyl)ether	5	2.013563	10	1.944342	20	2.045948	50	1.92189	80	1.890192	120	1.71012
2-Chlorophenol	5	1.601092	10	1.639298	20	1.653678	50	1.559629	80	1.53976	120	1.429755
1,3-Dichlorobenzene	5	1.70453	10	1.694891	20	1.672135	50	1.553962	80	1.523002	120	1.419933
1,4-Dichlorobenzene	5	1.742574	10	1.698097	20	1.651348	50	1.532958	80	1.486855	120	1.402696
Benzyl alcohol	5	1.157928	10	1.166225	20	1.196271	50	1.181041	80	1.197052	120	1.21709
1,2-Dichlorobenzene	5	1.642701	10	1.614721	20	1.613729	50	1.369779	80	1.338012	120	1.315816
2-Methylphenol	5	1.465904	10	1.509842	20	1.502631	50	1.379394	80	1.35375	120	1.360227
bis(2-chloroisopropyl)ether	5	2.954199	10	2.941286	20	2.905403	50	2.689731	80	2.620145	120	2.406987
Acetophenone	5	2.435616	10	2.443896	20	2.43486	50	2.285292	80	2.347341	120	2.276401
3 & 4-Methylphenol	5	1.587055	10	1.581281	20	1.562337	50	1.297278	80	1.326734	120	1.342444
N-Nitroso-di-n-propylamine	5	1.262926	10	1.256925	20	1.222068	50	1.132802	80	1.155412	120	1.176649
Hexachloroethane	5	0.7258498	10	0.7168427	20	0.7197692	50	0.6223053	80	0.6176327	120	0.641179
Nitrobenzene	5	0.375871	10	0.3977217	20	0.407263	50	0.3936593	80	0.373292	120	0.3861759
Isophorone	5	0.9279021	10	0.9091188	20	0.9335809	50	0.9059044	80	0.8727985	120	0.8890414
2-Nitrophenol	5	0.2135683	10	0.2206597	20	0.2376103	50	0.2405249	80	0.2196867	120	0.2337197
2,4-Dimethylphenol	5	0.3432821	10	0.3612473	20	0.3632887	50	0.3516876	80	0.3349119	120	0.3448844
Benzoic acid	5	7.642751E-02	10	0.1246828	20	0.1472683	50	0.1633159	80	0.1978441	120	0.1933198
bis(2-chloroethoxy)methane	5	0.5899172	10	0.5678024	20	0.5798889	50	0.5619056	80	0.5214121	120	0.5241129
2,4-Dichlorophenol	5	0.3035393	10	0.3097714	20	0.3078741	50	0.2966956	80	0.2823132	120	0.2918987
1,2,4-Trichlorobenzene	5	0.3200999	10	0.3390581	20	0.3316495	50	0.3058702	80	0.2822866	120	0.2964353
Naphthalene	5	1.139941	10	1.13043	20	1.122638	50	1.019928	80	0.9416096	120	0.8893897

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration: 15F1602 Instrument: GC/MS F
Calibration Date: 5/28/2015 1:16:38PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
4-Chloroaniline	5	0.5216949	10	0.5078096	20	0.5230598	50	0.4904072	80	0.476857	120	0.4638548
Hexachlorobutadiene	5	0.1708219	10	0.164306	20	0.1769767	50	0.1611658	80	0.156613	120	0.1717005
Caprolactam	5	0.1623573	10	0.1615896	20	0.1573745	50	0.1616996	80	0.1711202	120	0.1568154
4-Chloro-3-methylphenol	5	0.311922	10	0.3014868	20	0.3070931	50	0.2993954	80	0.2894239	120	0.2953885
2-Methylnaphthylene	5	0.7286827	10	0.7228172	20	0.7149427	50	0.6371778	80	0.6047669	120	0.5745235
1,2,4,5-Tetrachlorobenzene	5	0.7762347	10	0.784466	20	0.8135382	50	0.7913186	80	0.7531282	120	0.743536
Hexachlorocyclopentadiene	5	0.3504251	10	0.3735246	20	0.4010582	50	0.4814699	80	0.417126	120	0.4615093
2,4,6-Trichlorophenol	5	0.4536757	10	0.4664744	20	0.4774156	50	0.4787788	80	0.4653998	120	0.4459562
2,4,5-Trichlorophenol	5	0.4969046	10	0.5034087	20	0.5033247	50	0.5148454	80	0.497066	120	0.4459562
2-Chloronaphthalene	5	1.48752	10	1.468978	20	1.41284	50	1.282294	80	1.208378	120	1.14732
1,1-Biphenyl	5	2.061756	10	2.080646	20	1.923022	50	1.782282	80	1.680992	120	1.578066
2-Nitroaniline	5	0.3963312	10	0.424598	20	0.4362471	50	0.45746	80	0.4471876	120	0.4268921
Dimethylphthalate	5	1.739166	10	1.714607	20	1.715559	50	1.580104	80	1.497917	120	1.317846
Acenaphthylene	5	2.445279	10	2.423421	20	2.389901	50	2.288747	80	2.115389	120	1.83249
3-Nitroaniline	5	0.4877173	10	0.5190392	20	0.525911	50	0.5091014	80	0.5137083	120	0.4631622
Acenaphthene	5	1.462787	10	1.418344	20	1.420969	50	1.300298	80	1.265431	120	1.097521
2,4-Dinitrophenol	5	0.104224	10	0.1641865	20	0.2251212	50	0.2725171	80	0.2928774	120	0.2873753
4-Nitrophenol	5	0.1188568	10	0.1327499	20	0.1459026	50	0.1529053	80	0.1585343	120	0.1487265
Dibenzofuran	5	2.116241	10	2.060804	20	1.961572	50	1.838482	80	1.785412	120	1.642445
2,6-Dinitrotoluene	5	0.4038757	10	0.4514726	20	0.456714	50	0.4468416	80	0.4339995	120	0.4078937
2,4-Dinitrotoluene	5	0.5215156	10	0.5590148	20	0.6027378	50	0.5940241	80	0.5971071	120	0.5578109
2,3,4,6-Tetrachlorophenol	5	0.3622895	10	0.3858506	20	0.4018529	50	0.3925607	80	0.4067309	120	0.3817022
Diethyl phthalate	5	1.790183	10	1.77963	20	1.778792	50	1.590607	80	1.531056	120	1.297461
4-Chlorophenyl-phenylether	5	0.7214761	10	0.7257747	20	0.7021129	50	0.662922	80	0.6462965	120	0.5963549
Fluorene	5	1.633391	10	1.597415	20	1.529873	50	1.357802	80	1.335491	120	1.190474
4-Nitroaniline	5	0.4274524	10	0.5064938	20	0.5340403	50	0.5329532	80	0.530346	120	0.498304

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration: 15F1602 Instrument: GC/MS F
Calibration Date: 5/28/2015 1:16:38PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
4,6-Dinitro-2-methylphenol	5	0.1095472	10	0.1363803	20	0.1705374	50	0.1863232	80	0.1818082	120	0.1770229
Carbazole	5	1.173316	10	1.16848	20	1.19185	50	1.086841	80	1.045555	120	0.9931044
1,2-Diphenylhydrazine	5	1.030371	10	1.046733	20	1.030462	50	1.091799	80	1.063091	120	0.9899843
Azobenzene	5	1.030371	10	1.046733	20	1.030462	50	1.091799	80	1.063091	120	0.9899843
4-Bromophenyl-phenylether	5	0.2125976	10	0.2153819	20	0.2155342	50	0.1996947	80	0.1997389	120	0.2041611
Atrazine	5	0.2450314	10	0.2678588	20	0.2575139	50	0.2408984	80	0.2305406	120	0.2166055
Hexachlorobenzene	5	0.2446825	10	0.2569426	20	0.2602992	50	0.2495321	80	0.2501665	120	0.2710952
Pentachlorophenol	5	0.1381095	10	0.1517066	20	0.1699844	50	0.1653649	80	0.1665937	120	0.1728305
Phenanthrene	5	1.309116	10	1.259389	20	1.217008	50	1.096735	80	1.043471	120	1.001017
Anthracene	5	1.294926	10	1.277546	20	1.268686	50	1.145243	80	1.078226	120	1.036406
Di-n-butyl phthalate	5	1.847863	10	1.828001	20	1.810262	50	1.683218	80	1.59321	120	1.476315
Fluoranthene	5	1.299147	10	1.304997	20	1.28513	50	1.136155	80	1.107768	120	1.079179
Benzidine	5	0.496134	10	0.6223256	20	0.6053474	50	0.6151028	80	0.616762	120	0.561916
Pyrene	5	1.5115	10	1.514012	20	1.392822	50	1.297318	80	1.211396	120	1.165766
Butylbenzylphthalate	5	0.8897589	10	0.9018679	20	0.8994153	50	0.8704784	80	0.8159861	120	0.73887
3,3'-Dichlorobenzidine	5	0.433724	10	0.4044154	20	0.410599	50	0.3990299	80	0.4293287	120	0.4436408
Benzo[a]anthracene	5	1.312506	10	1.297482	20	1.240357	50	1.171982	80	1.156573	120	1.136337
bis(2-ethylhexyl)phthalate	5	1.285744	10	1.290273	20	1.31237	50	1.226702	80	1.145712	120	1.022825
Chrysene	5	1.192459	10	1.222302	20	1.174012	50	1.089387	80	1.05472	120	1.01739
Di-n-octyl phthalate	5	2.303995	10	2.31097	20	2.260119	50	2.10772	80	1.918984	120	1.843093
Benzo[b]fluoranthene	5	1.351077	10	1.319138	20	1.266111	50	1.228178	80	1.141033	120	1.229182
Benzo[k]fluoranthene	5	1.190026	10	1.197352	20	1.15629	50	1.038953	80	1.163761	120	1.067831
Benzo[a]pyrene	5	1.208785	10	1.218341	20	1.214616	50	1.118569	80	1.102885	120	1.112563
Indeno(1,2,3-cd)pyrene	5	1.368657	10	1.352201	20	1.348277	50	1.278496	80	1.258077	120	1.192774
Dibenzo(a,h)anthracene	5	1.087415	10	1.128329	20	1.090801	50	1.037069	80	1.054249	120	1.02083
Benzo[ghi]perylene	5	1.162838	10	1.173742	20	1.167454	50	1.094229	80	1.041155	120	0.9489085

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration:	15F1602	Instrument:	GC/MS F
		Calibration Date:	5/28/2015 1:16:38PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
2-Fluorophenol	5	1.400565	10	1.40658	20	1.487057	50	1.477411	80	1.457242	120	1.405046
Phenol-d5	5	2.08113	10	2.028396	20	2.089594	50	2.069436	80	2.042513	120	1.936274
Nitrobenzene-d5	5	0.3796391	10	0.384985	20	0.3964999	50	0.3920503	80	0.370179	120	0.3879278
2-Fluorobiphenyl	5	1.55107	10	1.549851	20	1.545595	50	1.479813	80	1.391397	120	1.30045
2,4,6-Tribromophenol	5	0.2043411	10	0.2282878	20	0.2492516	50	0.2602324	80	0.2771091	120	0.2972716
Terphenyl-d14	5	0.8879175	10	0.8666998	20	0.8096253	50	0.7770772	80	0.7700679	120	0.7834091

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration:	15F1602	Instrument:	GC/MS F
		Calibration Date:	5/28/2015 1:16:38PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Pyridine	1.383139	5.652059		
N-Nitrosodimethylamine	1.063312	3.661821		
Benzaldehyde	0.1598569	5.923564		
Aniline	2.67549	3.002347		
Phenol	2.145467	5.021986	CCC (20)	
bis(2-chloroethyl)ether	1.921009	6.165734		
2-Chlorophenol	1.570535	5.208699		
1,3-Dichlorobenzene	1.594742	7.173787		
1,4-Dichlorobenzene	1.585755	8.346766	CCC (20)	
Benzyl alcohol	1.185934	1.84653		
1,2-Dichlorobenzene	1.48246	10.52539		
2-Methylphenol	1.428625	5.064157		
bis(2-chloroisopropyl)ether	2.752958	7.967231		
Acetophenone	2.370568	3.290378		
3 & 4-Methylphenol	1.449521	9.693963		
N-Nitroso-di-n-propylamine	1.20113	4.518585	SPCC (0.05)	
Hexachloroethane	0.6739298	7.723221		
Nitrobenzene	0.3889972	3.368301		
Isophorone	0.906391	2.534756		
2-Nitrophenol	0.2276283	4.861807	CCC (20)	
2,4-Dimethylphenol	0.3498837	3.143396		
Benzoic acid	0.1504764	30.31271		
bis(2-chloroethoxy)methane	0.5575065	5.133073		
2,4-Dichlorophenol	0.298682	3.508124	CCC (20)	
1,2,4-Trichlorobenzene	0.3125666	6.928049		

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration:	15F1602	Instrument:	GC/MS F
		Calibration Date:	5/28/2015 1:16:38PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Naphthalene	1.040656	10.32805		
4-Chloroaniline	0.4972805	4.887128		
Hexachlorobutadiene	0.1669307	4.525848	CCC (20)	
Caprolactam	0.1618261	3.170956		
4-Chloro-3-methylphenol	0.300785	2.678105	CCC (20)	
2-Methylnaphthylene	0.6638185	10.09926		
1,2,4,5-Tetrachlorobenzene	0.7770369	3.299235		
Hexachlorocyclopentadiene	0.4141855	12.15197	SPCC (0.05)	
2,4,6-Trichlorophenol	0.4646168	2.783673	CCC (20)	
2,4,5-Trichlorophenol	0.4935843	4.90862		
2-Chloronaphthalene	1.334555	10.66582		
1,1-Biphenyl	1.851127	11.08316		
2-Nitroaniline	0.4314527	4.914799		
Dimethylphthalate	1.5942	10.34838		
Acenaphthylene	2.249204	10.55334		
3-Nitroaniline	0.5031066	4.665325		
Acenaphthene	1.327558	10.26066	CCC (20)	
2,4-Dinitrophenol	0.2243836	33.96354	SPCC (0.05)	
4-Nitrophenol	0.1429459	10.22701	SPCC (0.05)	
Dibenzofuran	1.900826	9.400761		
2,6-Dinitrotoluene	0.4334662	5.233781		
2,4-Dinitrotoluene	0.5720351	5.516413		
2,3,4,6-Tetrachlorophenol	0.3884978	4.098073		
Diethyl phthalate	1.627955	12.03983		
4-Chlorophenyl-phenylether	0.6758229	7.434965		

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration:	15F1602	Instrument:	GC/MS F
		Calibration Date:	5/28/2015 1:16:38PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Fluorene	1.440741	12.02977		
4-Nitroaniline	0.5049316	8.082541		
4,6-Dinitro-2-methylphenol	0.1602699	19.07334		
Carbazole	1.109858	7.262234		
1,2-Diphenylhydrazine	1.042073	3.302349		
Azobenzene	1.042073	3.302349		
4-Bromophenyl-phenylether	0.2078514	3.627354		
Atrazine	0.2430748	7.561256		
Hexachlorobenzene	0.255453	3.71122		
Pentachlorophenol	0.1607649	8.256949	CCC (20)	
Phenanthrene	1.154456	10.82146		
Anthracene	1.183506	9.461892		
Di-n-butyl phthalate	1.706478	8.765564		
Fluoranthene	1.202063	8.745428	CCC (20)	
Benzidine	0.5862646	8.405785		
Pyrene	1.348802	11.03344		
Butylbenzylphthalate	0.8527294	7.52624		
3,3'-Dichlorobenzidine	0.420123	4.264792		
Benzo[a]anthracene	1.219206	6.17062		
bis(2-ethylhexyl)phthalate	1.213938	9.174088		
Chrysene	1.125045	7.352061		
Di-n-octyl phthalate	2.124147	9.580971	CCC (20)	
Benzo[b]fluoranthene	1.255787	5.941878		
Benzo[k]fluoranthene	1.135702	5.831333		
Benzo[a]pyrene	1.162627	4.858561	CCC (20)	

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INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration:	15F1602	Instrument:	GC/MS F
		Calibration Date:	5/28/2015 1:16:38PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Indeno(1,2,3-cd)pyrene	1.299747	5.273084		
Dibenzo(a,h)anthracene	1.069782	3.712872		
Benzo[ghi]perylene	1.098054	8.169812		
2-Fluorophenol	1.438984	2.744572		
Phenol-d5	2.041224	2.763391		
Nitrobenzene-d5	0.3852135	2.431473		
2-Fluorobiphenyl	1.469696	7.050359		
2,4,6-Tribromophenol	0.2527489	13.22392		
Terphenyl-d14	0.8157995	6.121572		

* Values outside of QC limits

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CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS F	Calibration:	15F1602
Lab File ID:	F11520.D	Calibration Date:	05/28/15 13:16
Sequence:	S5H2607	Injection Date:	08/26/15
Lab Sample ID:	S5H2607-CCV1	Injection Time:	12:53

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Pyridine	A	50.0	50.5	1.383139	1.395794		0.9	
N-Nitrosodimethylamine	A	50.0	49.9	1.063312	1.061638		-0.2	
Benzaldehyde	A	50.0	86.3	0.1598569	0.2758965		72.6	
Aniline	A	50.0	50.9	2.67549	2.72345		1.8	
Phenol	A	50.0	54.5	2.145467	2.340157		9.1	20
bis(2-chloroethyl)ether	A	50.0	52.6	1.921009	2.021331		5.2	
2-Chlorophenol	A	50.0	52.3	1.570535	1.642124		4.6	
1,3-Dichlorobenzene	A	50.0	49.8	1.594742	1.586825		-0.5	
1,4-Dichlorobenzene	A	50.0	49.7	1.585755	1.576962		-0.6	20
Benzyl alcohol	A	50.0	58.3	1.185934	1.383584		16.7	
1,2-Dichlorobenzene	A	50.0	49.1	1.48246	1.454869		-1.9	
2-Methylphenol	A	50.0	52.7	1.428625	1.505698		5.4	
bis(2-chloroisopropyl)ether	A	50.0	56.3	2.752958	3.102215		12.7	
Acetophenone	A	50.0	53.1	2.370568	2.516796		6.2	
3 & 4-Methylphenol	A	50.0	52.9	1.449521	1.534721		5.9	
N-Nitroso-di-n-propylamine	A	50.0	55.6	1.20113	1.334436	0.05	11.1	
Hexachloroethane	A	50.0	48.5	0.6739298	0.6539146		-3.0	
Nitrobenzene	A	50.0	53.0	0.3889972	0.4124172		6.0	
Isophorone	A	50.0	50.0	0.906391	0.9063864		-0.0005	
2-Nitrophenol	A	50.0	50.3	0.2276283	0.2289483		0.6	20
2,4-Dimethylphenol	A	50.0	50.3	0.3498837	0.3520302		0.6	
Benzoic acid	A	50.0	37.4	0.1504764	0.1126231		-25.2	
bis(2-chloroethoxy)methane	A	50.0	49.5	0.5575065	0.5515962		-1.1	

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS F	Calibration:	15F1602
Lab File ID:	F11520.D	Calibration Date:	05/28/15 13:16
Sequence:	S5H2607	Injection Date:	08/26/15
Lab Sample ID:	S5H2607-CCV1	Injection Time:	12:53

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.0	49.3	0.298682	0.294601		-1.4	20
1,2,4-Trichlorobenzene	A	50.0	45.8	0.3125666	0.2861821		-8.4	
Naphthalene	A	50.0	48.8	1.040656	1.015284		-2.4	
4-Chloroaniline	A	50.0	49.2	0.4972805	0.4895999		-1.5	
Hexachlorobutadiene	A	50.0	45.8	0.1669307	0.1530902		-8.3	20
Caprolactam	A	50.0	43.8	0.1618261	0.1416809		-12.4	
4-Chloro-3-methylphenol	A	50.0	53.7	0.300785	0.3230653		7.4	20
2-Methylnaphthylene	A	50.0	50.1	0.6638185	0.6647452		0.1	
1,2,4,5-Tetrachlorobenzene	A	50.0	44.5	0.7770369	0.6922131		-10.9	
Hexachlorocyclopentadiene	A	50.0	39.5	0.4141855	0.3274478	0.05	-20.9	
2,4,6-Trichlorophenol	A	50.0	46.8	0.4646168	0.4351619		-6.3	20
2,4,5-Trichlorophenol	A	50.0	47.8	0.4935843	0.4722096		-4.3	
2-Chloronaphthalene	A	50.0	45.4	1.334555	1.212979		-9.1	
1,1-Biphenyl	A	50.0	45.3	1.851127	1.678641		-9.3	
2-Nitroaniline	A	50.0	57.3	0.4314527	0.4946788		14.7	
Dimethylphthalate	A	50.0	48.7	1.5942	1.552965		-2.6	
Acenaphthylene	A	50.0	48.3	2.249204	2.172125		-3.4	
3-Nitroaniline	A	50.0	49.8	0.5031066	0.5013772		-0.3	
Acenaphthene	A	50.0	48.2	1.327558	1.279774		-3.6	20
2,4-Dinitrophenol	A	50.0	53.9	0.2243836	0.241774	0.05	7.8	
4-Nitrophenol	A	50.0	58.2	0.1429459	0.166284	0.05	16.3	
Dibenzofuran	A	50.0	47.4	1.900826	1.801662		-5.2	
2,6-Dinitrotoluene	A	50.0	51.6	0.4334662	0.446986		3.1	

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CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS F	Calibration:	15F1602
Lab File ID:	F11520.D	Calibration Date:	05/28/15 13:16
Sequence:	S5H2607	Injection Date:	08/26/15
Lab Sample ID:	S5H2607-CCV1	Injection Time:	12:53

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrotoluene	A	50.0	52.8	0.5720351	0.6039899		5.6	
2,3,4,6-Tetrachlorophenol	A	50.0	46.4	0.3884978	0.3607106		-7.2	
Diethyl phthalate	A	50.0	51.9	1.627955	1.689847		3.8	
4-Chlorophenyl-phenylether	A	50.0	46.7	0.6758229	0.6315011		-6.6	
Fluorene	A	50.0	47.8	1.440741	1.375931		-4.5	
4-Nitroaniline	A	50.0	51.6	0.5049316	0.5210273		3.2	
4,6-Dinitro-2-methylphenol	A	50.0	56.2	0.1602699	0.1802098		12.4	
Carbazole	A	50.0	44.6	1.109858	0.9894941		-10.8	
1,2-Diphenylhydrazine	A	50.0	56.5	1.042073	1.176805		12.9	
Azobenzene	A	50.0	56.5	1.042073	1.176805		12.9	
4-Bromophenyl-phenylether	A	50.0	46.6	0.2078514	0.1935599		-6.9	
Atrazine	A	50.0	41.2	0.2430748	0.2002539		-17.6	
Hexachlorobenzene	A	50.0	46.0	0.255453	0.2351282		-8.0	
Pentachlorophenol	A	50.0	46.3	0.1607649	0.1488673		-7.4	20
Phenanthrene	A	50.0	47.1	1.154456	1.086711		-5.9	
Anthracene	A	50.0	47.8	1.183506	1.132363		-4.3	
Di-n-butyl phthalate	A	50.0	49.7	1.706478	1.69525		-0.7	
Fluoranthene	A	50.0	46.9	1.202063	1.126715		-6.3	20
Benzidine	A	50.0	49.9	0.5862646	0.5845853		-0.3	
Pyrene	A	50.0	48.6	1.348802	1.310058		-2.9	
Butylbenzylphthalate	A	50.0	51.4	0.8527294	0.8772101		2.9	
3,3'-Dichlorobenzidine	A	50.0	44.2	0.420123	0.37108		-11.7	
Benzo[a]anthracene	A	50.0	46.9	1.219206	1.144068		-6.2	

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CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS F	Calibration:	15F1602
Lab File ID:	F11520.D	Calibration Date:	05/28/15 13:16
Sequence:	S5H2607	Injection Date:	08/26/15
Lab Sample ID:	S5H2607-CCV1	Injection Time:	12:53

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
bis(2-ethylhexyl)phthalate	A	50.0	49.0	1.213938	1.190951		-1.9	
Chrysene	A	50.0	46.5	1.125045	1.046418		-7.0	
Di-n-octyl phthalate	A	50.0	49.6	2.124147	2.104841		-0.9	20
Benzo[b]fluoranthene	A	50.0	48.8	1.255787	1.226817		-2.3	
Benzo[k]fluoranthene	A	50.0	44.0	1.135702	1.000153		-11.9	
Benzo[a]pyrene	A	50.0	47.1	1.162627	1.094878		-5.8	20
Indeno(1,2,3-cd)pyrene	A	50.0	46.4	1.299747	1.207418		-7.1	
Dibenzo(a,h)anthracene	A	50.0	46.7	1.069782	0.9986774		-6.6	
Benzo[ghi]perylene	A	50.0	47.4	1.098054	1.040403		-5.3	
2-Fluorophenol	A	50.0	50.7	1.438984	1.460358		1.5	
Phenol-d5	A	50.0	52.0	2.041224	2.123719		4.0	
Nitrobenzene-d5	A	50.0	50.6	0.3852135	0.389806		1.2	
2-Fluorobiphenyl	A	50.0	46.3	1.469696	1.360033		-7.5	
2,4,6-Tribromophenol	A	50.0	46.5	0.2527489	0.2348895		-7.1	
Terphenyl-d14	A	50.0	47.4	0.8157995	0.7737714		-5.2	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS F	Calibration:	15F1602
Lab File ID:	F11537.D	Calibration Date:	05/28/15 13:16
Sequence:	S5H2708	Injection Date:	08/27/15
Lab Sample ID:	S5H2708-CCV1	Injection Time:	12:17

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Pyridine	A	50.0	49.2	1.383139	1.362346		-1.5	
N-Nitrosodimethylamine	A	50.0	44.5	1.063312	0.9471819		-10.9	
Benzaldehyde	A	50.0	104	0.1598569	0.3340295		109	
Aniline	A	50.0	49.4	2.67549	2.645356		-1.1	
Phenol	A	50.0	51.7	2.145467	2.217287		3.3	20
bis(2-chloroethyl)ether	A	50.0	50.7	1.921009	1.94762		1.4	
2-Chlorophenol	A	50.0	50.4	1.570535	1.584107		0.9	
1,3-Dichlorobenzene	A	50.0	47.0	1.594742	1.500285		-5.9	
1,4-Dichlorobenzene	A	50.0	47.5	1.585755	1.505042		-5.1	20
Benzyl alcohol	A	50.0	56.1	1.185934	1.331667		12.3	
1,2-Dichlorobenzene	A	50.0	47.5	1.48246	1.409304		-4.9	
2-Methylphenol	A	50.0	51.1	1.428625	1.461064		2.3	
bis(2-chloroisopropyl)ether	A	50.0	52.4	2.752958	2.887411		4.9	
Acetophenone	A	50.0	51.6	2.370568	2.444843		3.1	
3 & 4-Methylphenol	A	50.0	52.4	1.449521	1.519532		4.8	
N-Nitroso-di-n-propylamine	A	50.0	54.1	1.20113	1.298621	0.05	8.1	
Hexachloroethane	A	50.0	46.6	0.6739298	0.627583		-6.9	
Nitrobenzene	A	50.0	50.2	0.3889972	0.3902666		0.3	
Isophorone	A	50.0	49.9	0.906391	0.9038483		-0.3	
2-Nitrophenol	A	50.0	50.2	0.2276283	0.2285803		0.4	20
2,4-Dimethylphenol	A	50.0	50.1	0.3498837	0.3504151		0.2	
Benzoic acid	A	50.0	41.0	0.1504764	0.1234107		-18.0	
bis(2-chloroethoxy)methane	A	50.0	47.8	0.5575065	0.5330829		-4.4	

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CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS F	Calibration:	15F1602
Lab File ID:	F11537.D	Calibration Date:	05/28/15 13:16
Sequence:	S5H2708	Injection Date:	08/27/15
Lab Sample ID:	S5H2708-CCV1	Injection Time:	12:17

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.0	48.4	0.298682	0.2893277		-3.1	20
1,2,4-Trichlorobenzene	A	50.0	45.3	0.3125666	0.2833089		-9.4	
Naphthalene	A	50.0	47.1	1.040656	0.9805241		-5.8	
4-Chloroaniline	A	50.0	48.9	0.4972805	0.486368		-2.2	
Hexachlorobutadiene	A	50.0	44.4	0.1669307	0.1481339		-11.3	20
Caprolactam	A	50.0	46.3	0.1618261	0.1497775		-7.4	
4-Chloro-3-methylphenol	A	50.0	54.8	0.300785	0.3297593		9.6	20
2-Methylnaphthylene	A	50.0	47.5	0.6638185	0.6306368		-5.0	
1,2,4,5-Tetrachlorobenzene	A	50.0	43.1	0.7770369	0.6698969		-13.8	
Hexachlorocyclopentadiene	A	50.0	35.4	0.4141855	0.2929872	0.05	-29.3	
2,4,6-Trichlorophenol	A	50.0	45.8	0.4646168	0.4251569		-8.5	20
2,4,5-Trichlorophenol	A	50.0	47.6	0.4935843	0.469998		-4.8	
2-Chloronaphthalene	A	50.0	44.1	1.334555	1.17735		-11.8	
1,1-Biphenyl	A	50.0	44.2	1.851127	1.637694		-11.5	
2-Nitroaniline	A	50.0	56.2	0.4314527	0.485		12.4	
Dimethylphthalate	A	50.0	48.0	1.5942	1.530293		-4.0	
Acenaphthylene	A	50.0	46.6	2.249204	2.097436		-6.7	
3-Nitroaniline	A	50.0	51.3	0.5031066	0.5160996		2.6	
Acenaphthene	A	50.0	47.0	1.327558	1.247765		-6.0	20
2,4-Dinitrophenol	A	50.0	54.1	0.2243836	0.2428696	0.05	8.2	
4-Nitrophenol	A	50.0	59.7	0.1429459	0.1707655	0.05	19.5	
Dibenzofuran	A	50.0	47.4	1.900826	1.802843		-5.2	
2,6-Dinitrotoluene	A	50.0	51.6	0.4334662	0.4474758		3.2	

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS F	Calibration:	15F1602
Lab File ID:	F11537.D	Calibration Date:	05/28/15 13:16
Sequence:	S5H2708	Injection Date:	08/27/15
Lab Sample ID:	S5H2708-CCV1	Injection Time:	12:17

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrotoluene	A	50.0	54.4	0.5720351	0.6227668		8.9	
2,3,4,6-Tetrachlorophenol	A	50.0	48.3	0.3884978	0.3750321		-3.5	
Diethyl phthalate	A	50.0	50.9	1.627955	1.658322		1.9	
4-Chlorophenyl-phenylether	A	50.0	46.8	0.6758229	0.6319326		-6.5	
Fluorene	A	50.0	47.0	1.440741	1.354497		-6.0	
4-Nitroaniline	A	50.0	56.5	0.5049316	0.5702835		12.9	
4,6-Dinitro-2-methylphenol	A	50.0	53.1	0.1602699	0.1701145		6.1	
Carbazole	A	50.0	45.7	1.109858	1.013956		-8.6	
1,2-Diphenylhydrazine	A	50.0	52.3	1.042073	1.08921		4.5	
Azobenzene	A	50.0	52.3	1.042073	1.08921		4.5	
4-Bromophenyl-phenylether	A	50.0	44.7	0.2078514	0.1857846		-10.6	
Atrazine	A	50.0	44.2	0.2430748	0.2146798		-11.7	
Hexachlorobenzene	A	50.0	45.0	0.255453	0.2299356		-10.0	
Pentachlorophenol	A	50.0	43.3	0.1607649	0.1393068		-13.3	20
Phenanthrene	A	50.0	45.2	1.154456	1.043867		-9.6	
Anthracene	A	50.0	45.3	1.183506	1.07203		-9.4	
Di-n-butyl phthalate	A	50.0	47.7	1.706478	1.626703		-4.7	
Fluoranthene	A	50.0	44.7	1.202063	1.073708		-10.7	20
Benzidine	A	50.0	50.1	0.5862646	0.5876055		0.2	
Pyrene	A	50.0	44.4	1.348802	1.196549		-11.3	
Butylbenzylphthalate	A	50.0	48.1	0.8527294	0.8203608		-3.8	
3,3'-Dichlorobenzidine	A	50.0	47.8	0.420123	0.401322		-4.5	
Benzo[a]anthracene	A	50.0	45.7	1.219206	1.113283		-8.7	

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS F	Calibration:	15F1602
Lab File ID:	F11537.D	Calibration Date:	05/28/15 13:16
Sequence:	S5H2708	Injection Date:	08/27/15
Lab Sample ID:	S5H2708-CCV1	Injection Time:	12:17

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
bis(2-ethylhexyl)phthalate	A	50.0	44.8	1.213938	1.086759		-10.5	
Chrysene	A	50.0	43.6	1.125045	0.9807874		-12.8	
Di-n-octyl phthalate	A	50.0	47.1	2.124147	2.000254		-5.8	20
Benzo[b]fluoranthene	A	50.0	46.6	1.255787	1.171755		-6.7	
Benzo[k]fluoranthene	A	50.0	43.1	1.135702	0.9787943		-13.8	
Benzo[a]pyrene	A	50.0	45.8	1.162627	1.06618		-8.3	20
Indeno(1,2,3-cd)pyrene	A	50.0	45.8	1.299747	1.191758		-8.3	
Dibenzo(a,h)anthracene	A	50.0	45.7	1.069782	0.9773856		-8.6	
Benzo[ghi]perylene	A	50.0	46.2	1.098054	1.014371		-7.6	
2-Fluorophenol	A	50.0	49.4	1.438984	1.420153		-1.3	
Phenol-d5	A	50.0	50.8	2.041224	2.075812		1.7	
Nitrobenzene-d5	A	50.0	48.4	0.3852135	0.3727713		-3.2	
2-Fluorobiphenyl	A	50.0	44.6	1.469696	1.312275		-10.7	
2,4,6-Tribromophenol	A	50.0	51.0	0.2527489	0.2579171		2.0	
Terphenyl-d14	A	50.0	44.9	0.8157995	0.7319152		-10.3	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Accredited Analytical Resources, LLC.

VOLATILES SAMPLE DATA

Accredited Analytical Resources, LLC.

VOLATILES SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/24/15 20:48	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M17097.D
Prep Batch:	B5H2410	Sequence:	S5H2407	Analyzed:	08/24/15 20:48
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
107-02-8	Acrolein	ND	120	200	U
107-13-1	Acrylonitrile	ND	40.0	200	U
67-64-1	Acetone	59.8	20.0	20.0	D
75-71-8	Dichlorodifluoromethane	ND	20.0	20.0	U
74-87-3	Chloromethane	ND	20.0	20.0	U
75-01-4	Vinyl chloride	ND	20.0	20.0	U
74-83-9	Bromomethane	ND	20.0	20.0	U
75-00-3	Chloroethane	ND	20.0	20.0	U
75-69-4	Trichlorofluoromethane	ND	20.0	20.0	U
75-35-4	1,1-Dichloroethene	ND	8.00	20.0	U
75-15-0	Carbon disulfide	ND	8.00	20.0	U
75-09-2	Methylene Chloride	29.2	8.00	20.0	D, B
156-60-5	trans-1,2-Dichloroethene	ND	8.00	20.0	U
75-34-3	1,1-Dichloroethane	ND	8.00	20.0	U
108-05-4	Vinyl acetate	ND	8.00	20.0	U
590-20-7	2,2-Dichloropropane	ND	8.00	20.0	U
78-93-3	2-Butanone	ND	10.0	20.0	U
156-59-4	cis-1,2-Dichloroethene	ND	10.0	20.0	U
67-66-3	Chloroform	ND	10.0	20.0	U
74-97-5	Bromochloromethane	ND	10.0	20.0	U
71-55-6	1,1,1-Trichloroethane	ND	10.0	20.0	U
563-58-6	1,1-Dichloropropene	ND	10.0	20.0	U
56-23-5	Carbon Tetrachloride	ND	10.0	20.0	U
107-06-2	1,2-Dichloroethane	ND	10.0	20.0	U
71-43-2	Benzene	ND	10.0	20.0	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/24/15 20:48	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M17097.D
Prep Batch:	B5H2410	Sequence:	S5H2407	Analyzed:	08/24/15 20:48
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
79-01-6	Trichloroethene	ND	10.0	20.0	U
78-87-5	1,2-Dichloropropane	ND	10.0	20.0	U
75-27-4	Bromodichloromethane	ND	10.0	20.0	U
74-95-3	Dibromomethane	ND	10.0	20.0	U
110-75-8	2-Chloroethyl vinyl ether	ND	10.0	20.0	U
10061-01-5	cis-1,3-Dichloropropene	ND	10.0	20.0	U
108-88-3	Toluene	24.2	10.0	20.0	D
10061-02-6	trans-1,3-Dichloropropene	ND	10.0	20.0	U
79-00-5	1,1,2-Trichloroethane	ND	10.0	20.0	U
108-10-1	4-Methyl-2-pentanone	ND	10.0	20.0	U
106-93-4	1,2-Dibromoethane	ND	10.0	20.0	U
591-78-6	2-Hexanone	ND	10.0	20.0	U
142-28-9	1,3-Dichloropropane	ND	10.0	20.0	U
127-18-4	Tetrachloroethene	ND	10.0	20.0	U
124-48-1	Dibromochloromethane	ND	10.0	20.0	U
100-41-4	Ethylbenzene	1180	10.0	20.0	D
108-90-7	Chlorobenzene	ND	10.0	20.0	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	10.0	20.0	U
108-38-3/106-42	m,p-Xylenes	3560	20.0	40.0	D
95-47-6	o-Xylene	1200	20.0	40.0	D
100-42-5	Styrene	ND	20.0	40.0	U
75-25-2	Bromoform	ND	10.0	20.0	U
98-82-8	Isopropylbenzene	296	10.0	20.0	D
79-34-5	1,1,2,2-Tetrachloroethane	ND	10.0	20.0	U
96-18-4	1,2,3-Trichloropropane	ND	10.0	20.0	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/24/15 20:48	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M17097.D
Prep Batch:	B5H2410	Sequence:	S5H2407	Analyzed:	08/24/15 20:48
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
103-65-1	n-Propyl Benzene	845	10.0	20.0	D
108-86-1	Bromobenzene	ND	10.0	20.0	U
108-67-8	1,3,5-Trimethylbenzene	998	10.0	20.0	D
95-49-8	2-Chlorotoluene	ND	10.0	20.0	U
106-43-4	4-Chlorotoluene	ND	10.0	20.0	U
98-06-6	tert-Butylbenzene	ND	10.0	20.0	U
95-63-6	1,2,4-Trimethylbenzene	3280	10.0	20.0	E, D
135-98-8	sec-Butylbenzene	88.8	10.0	20.0	D
99-87-6	p-Isopropyltoluene	41.2	10.0	20.0	D
541-73-1	1,3-Dichlorobenzene	ND	10.0	20.0	U
106-46-7	1,4-Dichlorobenzene	ND	10.0	20.0	U
104-51-8	n-Butyl Benzene	259	10.0	20.0	D
95-50-1	1,2-Dichlorobenzene	ND	10.0	20.0	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	10.0	20.0	U
120-82-1	1,2,4-Trichlorobenzene	ND	10.0	20.0	U
87-68-3	Hexachlorobutadiene	ND	10.0	20.0	U
87-61-6	1,2,3-Trichlorobenzene	ND	10.0	20.0	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	122%	70-130
Toluene-d8	118%	70-130
Bromofluorobenzene	103%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Quantitation Report (QT Reviewed)

Data File : D:\M\DATA\DATA15\AUG15\M0824\M17097.D Vial: 8
Acq On : 24 Aug 2015 20:48 Operator: SG
Sample : 1501458-01@20 Inst : GC/MS M
Misc : WATER Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 22 12:36 2015 Quant Results File: VM8A0813.RES

Quant Method : D:\M\METHODS\VM8A0813.M (RTE Integrator)
Title : VOA 8260 AQ TCL
Last Update : Thu Aug 13 17:06:41 2015
Response via : Initial Calibration
DataAcq Meth : VM8A0813

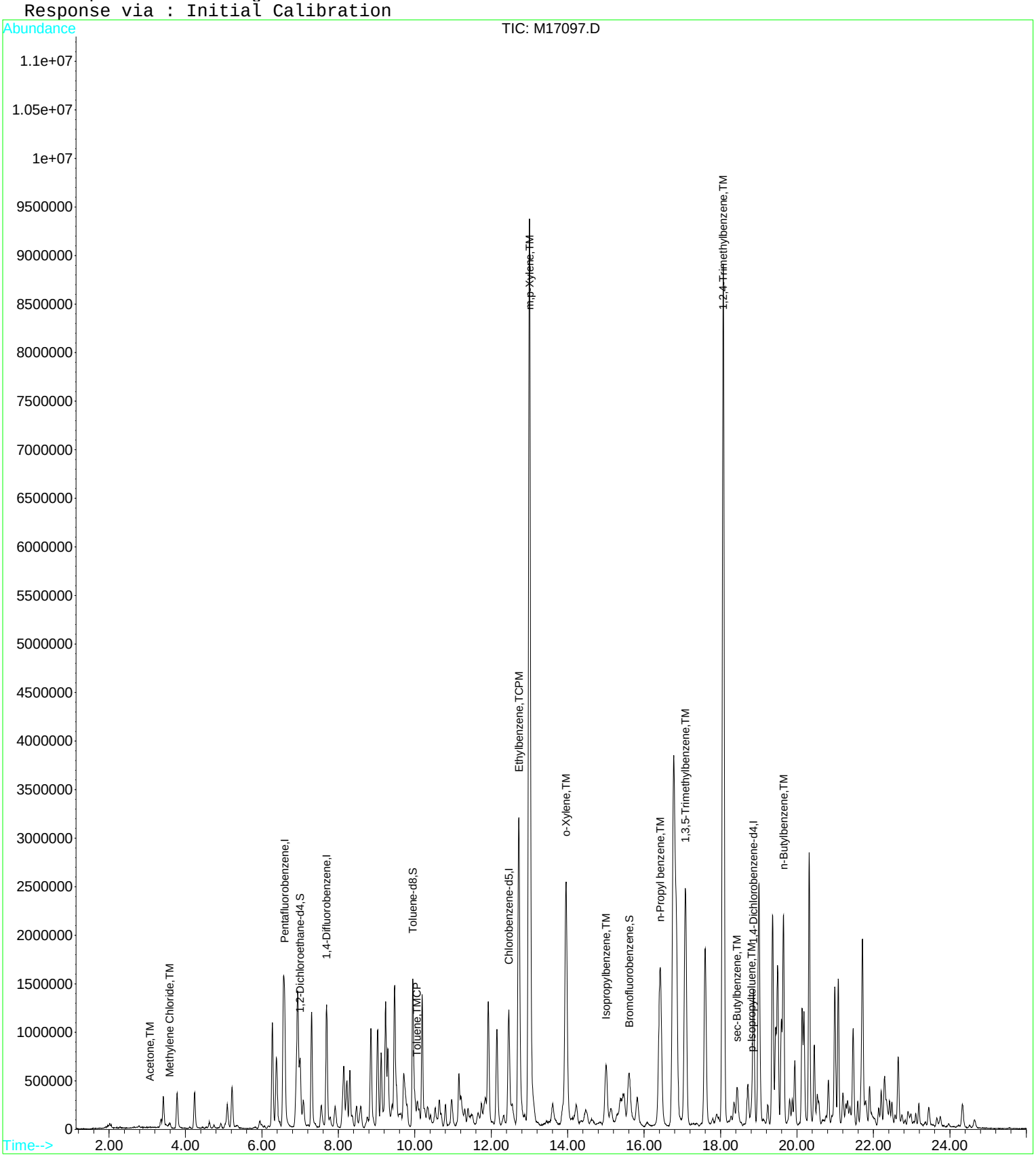
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.60	168	1134902	25.00	ug/l	0.01
27) 1,4-Difluorobenzene	7.69	114	1781764	25.00	ug/l	0.01
47) Chlorobenzene-d5	12.46	117	1558174	25.00	ug/l	0.02
59) 1,4-Dichlorobenzene-d4	18.86	152	875574	25.00	ug/l	0.00
System Monitoring Compounds						
28) 1,2-Dichloroethane-d4	7.01	65	457958	30.39	ug/l	0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 121.56%			
40) Toluene-d8	9.95	98	1702435	29.48	ug/l	0.01
Spiked Amount 25.000	Range 70 - 130		Recovery = 117.92%			
46) Bromofluorobenzene	15.61	95	584395	25.87	ug/l	0.03
Spiked Amount 25.000	Range 70 - 130		Recovery = 103.48%			
Target Compounds						Qvalue
4) Acetone	3.07	43	9645	2.99	ug/l	87
15) Methylene Chloride	3.59	49	39646	1.46	ug/l	90
41) Toluene	10.05	91	97722	1.21	ug/l	97
52) Ethylbenzene	12.72	91	5169168	58.80	ug/l	98
55) m,p-Xylene	13.00	91	11584666	178.15	ug/l	99
56) o-Xylene	13.96	91	3866079	60.11	ug/l	100
60) Isopropylbenzene	15.01	105	1272019	14.78	ug/l	96
63) n-Propyl benzene	16.42	91	4221617	42.26	ug/l	98
65) 1,3,5-Trimethylbenzene	17.08	105	3252168	49.89	ug/l	94
69) 1,2,4-Trimethylbenzene	18.07	105	11026048	163.96	ug/l	98
70) sec-Butylbenzene	18.44	105	402490	4.44	ug/l	97
71) p-Isopropyltoluene	18.81	119	181069	2.06	ug/l	98
74) n-Butylbenzene	19.64	91	905088	12.93	ug/l	81

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\M\DATA\DATA15\AUG15\M0824\M17097.D Vial: 8
Acq On : 24 Aug 2015 20:48 Operator: SG
Sample : 1501458-01@20 Inst : GC/MS M
Misc : WATER Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 22 12:36 2015 Quant Results File: VM8A0813.RES

Method : D:\M\METHODS\VM8A0813.M (RTE Integrator)
Title : VOA 8260 AQ TCL
Last Update : Thu Aug 13 17:06:41 2015
Response via : Initial Calibration



Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01RE1
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/24/15 21:22	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M17098.D
Prep Batch:	B5H2410	Sequence:	S5H2407	Analyzed:	08/24/15 21:22
Dilution:	100			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
107-02-8	Acrolein	ND	600	1000	U
107-13-1	Acrylonitrile	ND	200	1000	U
67-64-1	Acetone	ND	100	100	U
75-71-8	Dichlorodifluoromethane	ND	100	100	U
74-87-3	Chloromethane	ND	100	100	U
75-01-4	Vinyl chloride	ND	100	100	U
74-83-9	Bromomethane	ND	100	100	U
75-00-3	Chloroethane	ND	100	100	U
75-69-4	Trichlorofluoromethane	ND	100	100	U
75-35-4	1,1-Dichloroethene	ND	40.0	100	U
75-15-0	Carbon disulfide	ND	40.0	100	U
75-09-2	Methylene Chloride	ND	40.0	100	U
156-60-5	trans-1,2-Dichloroethene	ND	40.0	100	U
75-34-3	1,1-Dichloroethane	ND	40.0	100	U
108-05-4	Vinyl acetate	ND	40.0	100	U
590-20-7	2,2-Dichloropropane	ND	40.0	100	U
78-93-3	2-Butanone	ND	50.0	100	U
156-59-4	cis-1,2-Dichloroethene	ND	50.0	100	U
67-66-3	Chloroform	ND	50.0	100	U
74-97-5	Bromochloromethane	ND	50.0	100	U
71-55-6	1,1,1-Trichloroethane	ND	50.0	100	U
563-58-6	1,1-Dichloropropene	ND	50.0	100	U
56-23-5	Carbon Tetrachloride	ND	50.0	100	U
107-06-2	1,2-Dichloroethane	ND	50.0	100	U
71-43-2	Benzene	ND	50.0	100	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01RE1
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/24/15 21:22	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M17098.D
Prep Batch:	B5H2410	Sequence:	S5H2407	Analyzed:	08/24/15 21:22
Dilution:	100			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
79-01-6	Trichloroethene	ND	50.0	100	U
78-87-5	1,2-Dichloropropane	ND	50.0	100	U
75-27-4	Bromodichloromethane	ND	50.0	100	U
74-95-3	Dibromomethane	ND	50.0	100	U
110-75-8	2-Chloroethyl vinyl ether	ND	50.0	100	U
10061-01-5	cis-1,3-Dichloropropene	ND	50.0	100	U
108-88-3	Toluene	ND	50.0	100	U
10061-02-6	trans-1,3-Dichloropropene	ND	50.0	100	U
79-00-5	1,1,2-Trichloroethane	ND	50.0	100	U
108-10-1	4-Methyl-2-pentanone	ND	50.0	100	U
106-93-4	1,2-Dibromoethane	ND	50.0	100	U
591-78-6	2-Hexanone	ND	50.0	100	U
142-28-9	1,3-Dichloropropane	ND	50.0	100	U
127-18-4	Tetrachloroethene	ND	50.0	100	U
124-48-1	Dibromochloromethane	ND	50.0	100	U
100-41-4	Ethylbenzene	1200	50.0	100	D
108-90-7	Chlorobenzene	ND	50.0	100	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	50.0	100	U
108-38-3/106-42	m,p-Xylenes	3650	100	200	D
95-47-6	o-Xylene	1180	100	200	D
100-42-5	Styrene	ND	100	200	U
75-25-2	Bromoform	ND	50.0	100	U
98-82-8	Isopropylbenzene	245	50.0	100	D
79-34-5	1,1,2,2-Tetrachloroethane	ND	50.0	100	U
96-18-4	1,2,3-Trichloropropane	ND	50.0	100	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01RE1
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/24/15 21:22	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M17098.D
Prep Batch:	B5H2410	Sequence:	S5H2407	Analyzed:	08/24/15 21:22
Dilution:	100			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
103-65-1	n-Propyl Benzene	676	50.0	100	D
108-86-1	Bromobenzene	ND	50.0	100	U
108-67-8	1,3,5-Trimethylbenzene	787	50.0	100	D
95-49-8	2-Chlorotoluene	ND	50.0	100	U
106-43-4	4-Chlorotoluene	ND	50.0	100	U
98-06-6	tert-Butylbenzene	ND	50.0	100	U
95-63-6	1,2,4-Trimethylbenzene	2850	50.0	100	D
135-98-8	sec-Butylbenzene	ND	50.0	100	U
99-87-6	p-Isopropyltoluene	ND	50.0	100	U
541-73-1	1,3-Dichlorobenzene	ND	50.0	100	U
106-46-7	1,4-Dichlorobenzene	ND	50.0	100	U
104-51-8	n-Butyl Benzene	ND	50.0	100	U
95-50-1	1,2-Dichlorobenzene	ND	50.0	100	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	50.0	100	U
120-82-1	1,2,4-Trichlorobenzene	ND	50.0	100	U
87-68-3	Hexachlorobutadiene	ND	50.0	100	U
87-61-6	1,2,3-Trichlorobenzene	ND	50.0	100	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	118%	70-130
Toluene-d8	116%	70-130
Bromofluorobenzene	101%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Quantitation Report (QT Reviewed)

Data File : D:\M\DATA\DATA15\AUG15\M0824\M17098.D Vial: 9
Acq On : 24 Aug 2015 21:22 Operator: SG
Sample : 1501458-01RE1@100 Inst : GC/MS M
Misc : WATER Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 25 15:59 2015 Quant Results File: VM8A0813.RES

Quant Method : D:\M\METHODS\VM8A0813.M (RTE Integrator)
Title : VOA 8260 AQ TCL
Last Update : Thu Aug 13 17:06:41 2015
Response via : Initial Calibration
DataAcq Meth : VM8A0813

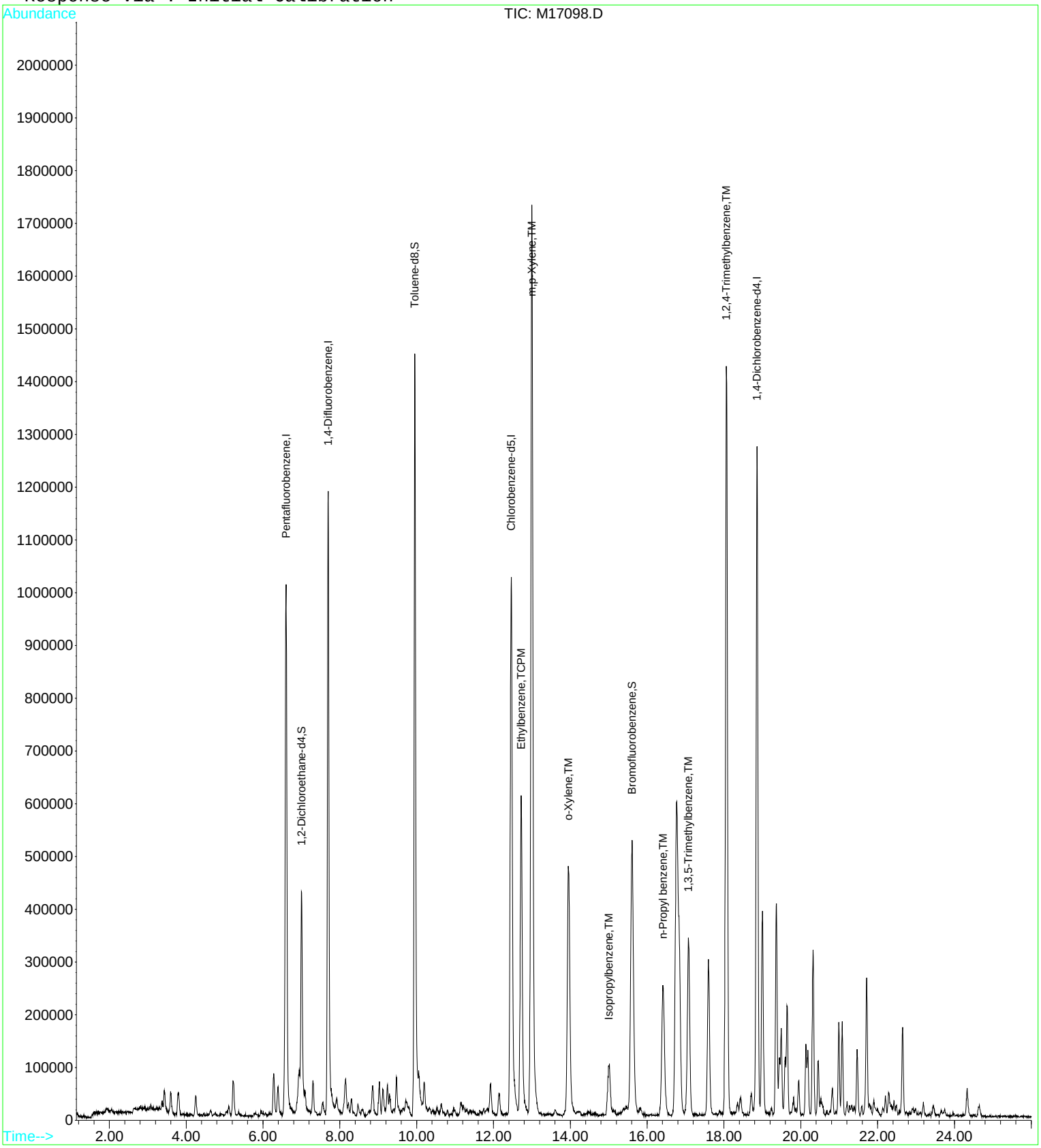
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.60	168	1076593	25.00	ug/l	0.01
27) 1,4-Difluorobenzene	7.70	114	1716367	25.00	ug/l	0.02
47) Chlorobenzene-d5	12.46	117	1502636	25.00	ug/l	0.02
59) 1,4-Dichlorobenzene-d4	18.86	152	821905	25.00	ug/l	0.00
System Monitoring Compounds						
28) 1,2-Dichloroethane-d4	7.00	65	427562	29.46	ug/l	0.01
Spiked Amount 25.000	Range 70 - 130		Recovery = 117.84%			
40) Toluene-d8	9.95	98	1615589	29.04	ug/l	0.01
Spiked Amount 25.000	Range 70 - 130		Recovery = 116.16%			
46) Bromofluorobenzene	15.61	95	550623	25.30	ug/l	0.03
Spiked Amount 25.000	Range 70 - 130		Recovery = 101.20%			
Target Compounds						Qvalue
52) Ethylbenzene	12.72	91	1013096	11.95	ug/l	96
55) m,p-Xylene	13.00	91	2286790	36.47	ug/l	98
56) o-Xylene	13.95	91	732411	11.81	ug/l	98
60) Isopropylbenzene	15.01	105	197605	2.45	ug/l	93
63) n-Propyl benzene	16.40	91	633506	6.76	ug/l	98
65) 1,3,5-Trimethylbenzene	17.08	105	481394	7.87	ug/l	96
69) 1,2,4-Trimethylbenzene	18.06	105	1796315	28.46	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\M\DATA\DATA15\AUG15\M0824\M17098.D Vial: 9
Acq On : 24 Aug 2015 21:22 Operator: SG
Sample : 1501458-01RE1@100 Inst : GC/MS M
Misc : WATER Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 25 15:59 2015 Quant Results File: VM8A0813.RES

Method : D:\M\METHODS\VM8A0813.M (RTE Integrator)
Title : VOA 8260 AQ TCL
Last Update : Thu Aug 13 17:06:41 2015
Response via : Initial Calibration



Accredited Analytical Resources, LLC.

VOLATILES QC DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Matrix:	Aqueous	Laboratory ID:	B5H2410-BLK1	File ID:	M17091.D
Batch:	B5H2410	Prepared:	08/24/15 17:30	Analyzed:	08/24/15 17:30
Column:	1	Preparation:	EPA 5030B	Dilution:	
		Sequence:	S5H2407	Instrument:	GC/MS M

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND	1.00	1.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	1.00	U
74-87-3	Chloromethane	ND	1.00	1.00	U
75-01-4	Vinyl chloride	ND	1.00	1.00	U
74-83-9	Bromomethane	ND	1.00	1.00	U
75-00-3	Chloroethane	ND	1.00	1.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	1.00	U
75-35-4	1,1-Dichloroethene	ND	0.400	1.00	U
75-15-0	Carbon disulfide	ND	0.400	1.00	U
75-09-2	Methylene Chloride	1.05	0.400	1.00	
156-60-5	trans-1,2-Dichloroethene	ND	0.400	1.00	U
75-34-3	1,1-Dichloroethane	ND	0.400	1.00	U
108-05-4	Vinyl acetate	ND	0.400	1.00	U
590-20-7	2,2-Dichloropropane	ND	0.400	1.00	U
78-93-3	2-Butanone	ND	0.500	1.00	U
156-59-4	cis-1,2-Dichloroethene	ND	0.500	1.00	U
67-66-3	Chloroform	ND	0.500	1.00	U
74-97-5	Bromochloromethane	ND	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane	ND	0.500	1.00	U
563-58-6	1,1-Dichloropropene	ND	0.500	1.00	U
56-23-5	Carbon Tetrachloride	ND	0.500	1.00	U
107-06-2	1,2-Dichloroethane	ND	0.500	1.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Matrix:	Aqueous	Laboratory ID:	B5H2410-BLK1	File ID:	M17091.D
Batch:	B5H2410	Prepared:	08/24/15 17:30	Analyzed:	08/24/15 17:30
Column:	1	Preparation:	EPA 5030B	Dilution:	
		Sequence:	S5H2407	Instrument:	GC/MS M

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
71-43-2	Benzene	ND	0.500	1.00	U
79-01-6	Trichloroethene	ND	0.500	1.00	U
78-87-5	1,2-Dichloropropane	ND	0.500	1.00	U
75-27-4	Bromodichloromethane	ND	0.500	1.00	U
74-95-3	Dibromomethane	ND	0.500	1.00	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.500	1.00	U
108-88-3	Toluene	ND	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane	ND	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	1.00	U
106-93-4	1,2-Dibromoethane	ND	0.500	1.00	U
591-78-6	2-Hexanone	ND	0.500	1.00	U
142-28-9	1,3-Dichloropropane	ND	0.500	1.00	U
127-18-4	Tetrachloroethene	ND	0.500	1.00	U
124-48-1	Dibromochloromethane	ND	0.500	1.00	U
100-41-4	Ethylbenzene	ND	0.500	1.00	U
108-90-7	Chlorobenzene	ND	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.500	1.00	U
108-38-3/106-42-3	m,p-Xylenes	ND	1.00	2.00	U
95-47-6	o-Xylene	ND	1.00	2.00	U
100-42-5	Styrene	ND	1.00	2.00	U
75-25-2	Bromoform	ND	0.500	1.00	U
98-82-8	Isopropylbenzene	ND	0.500	1.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Matrix:	Aqueous	Laboratory ID:	B5H2410-BLK1	File ID:	M17091.D
Batch:	B5H2410	Prepared:	08/24/15 17:30	Analyzed:	08/24/15 17:30
Column:	1	Preparation:	EPA 5030B	Dilution:	
		Sequence:	S5H2407	Instrument:	GC/MS M

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.500	1.00	U
96-18-4	1,2,3-Trichloropropane	ND	0.500	1.00	U
103-65-1	n-Propyl Benzene	ND	0.500	1.00	U
108-86-1	Bromobenzene	ND	0.500	1.00	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.500	1.00	U
95-49-8	2-Chlorotoluene	ND	0.500	1.00	U
106-43-4	4-Chlorotoluene	ND	0.500	1.00	U
98-06-6	tert-Butylbenzene	ND	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.500	1.00	U
135-98-8	sec-Butylbenzene	ND	0.500	1.00	U
99-87-6	p-Isopropyltoluene	ND	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	1.00	U
104-51-8	n-Butyl Benzene	ND	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene	ND	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	1.00	U
87-68-3	Hexachlorobutadiene	ND	0.500	1.00	U
91-20-3	Naphthalene	ND	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.500	1.00	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	100%	70-130
Toluene-d8	119%	70-130
Bromofluorobenzene	92%	70-130

Accredited Analytical Resources, LLC.

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Quantitation Report (QT Reviewed)

Data File : D:\M\DATA\DATA15\AUG15\M0824\M17091.D Vial: 13
Acq On : 24 Aug 2015 17:30 Operator: SG
Sample : B5H2410-BLK1 Inst : GC/MS M
Misc : WATER Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 25 16:39 2015 Quant Results File: VM8A0813.RES

Quant Method : D:\M\METHODS\VM8A0813.M (RTE Integrator)
Title : VOA 8260 AQ TCL
Last Update : Thu Aug 13 17:06:41 2015
Response via : Initial Calibration
DataAcq Meth : VM8A0813

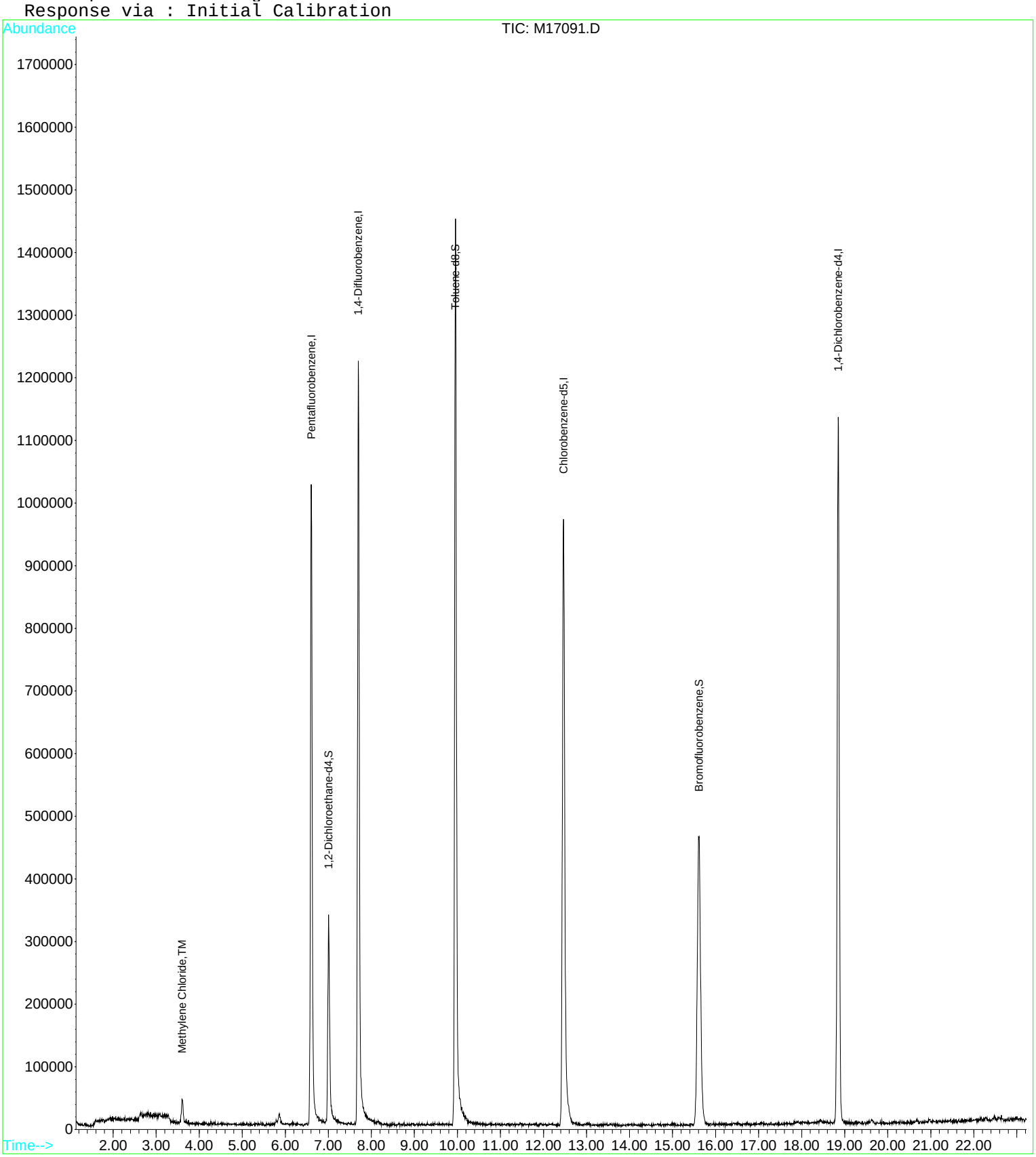
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.60	168	1139699	25.00	ug/l	0.02
27) 1,4-Difluorobenzene	7.70	114	1731541	25.00	ug/l	0.02
47) Chlorobenzene-d5	12.46	117	1461038	25.00	ug/l	0.02
59) 1,4-Dichlorobenzene-d4	18.85	152	752006	25.00	ug/l	0.00
System Monitoring Compounds						
28) 1,2-Dichloroethane-d4	7.01	65	366494	25.03	ug/l	0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 100.12%			
40) Toluene-d8	9.95	98	1666940	29.71	ug/l	0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 118.84%			
46) Bromofluorobenzene	15.61	95	503091	22.91	ug/l	0.03
Spiked Amount 25.000	Range 70 - 130		Recovery = 91.64%			
Target Compounds						Qvalue
15) Methylene Chloride	3.60	49	31569m	1.05	ug/l	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\M\DATA\DATA15\AUG15\M0824\M17091.D Vial: 13
Acq On : 24 Aug 2015 17:30 Operator: SG
Sample : B5H2410-BLK1 Inst : GC/MS M
Misc : WATER Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 25 16:39 2015 Quant Results File: VM8A0813.RES

Method : D:\M\METHODS\VM8A0813.M (RTE Integrator)
Title : VOA 8260 AQ TCL
Last Update : Thu Aug 13 17:06:41 2015
Response via : Initial Calibration



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VOLATILES QC SUMMARY

Accredited Analytical Resources, LLC.

SYSTEM MONITORING COMPOUND SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix: Aqueous
Instrument: GC/MS M

Lab Sample ID:	1,2-DCE-d4 (70% - 130%)	BFB (70% - 130%)	TOL-d8 (70% - 130%)
1501458-01	122	103	118
1501458-01RE1	118	101	116
B5H2410-BLK1	100	92	119
B5H2410-BS1	109	115	115
B5H2410-MS1	113	118	114
B5H2410-MSD1	118	121	118

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Analysis Method:	EPA 8260
Prep Batch:	B5H2410	Prep Method:	EPA 5030B
Percent Solids:		Laboratory ID:	B5H2410-MS1
		Client Sample ID:	1501444-02

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	QC LIMITS REC.
Acrolein	125	ND	138	110	40 - 160
Acrylonitrile	125	ND	156	125	70 - 130
Acetone	25.0	ND	34.1	136	40 - 160
Dichlorodifluoromethane	25.0	ND	16.1	64	40 - 160
Chloromethane	25.0	ND	22.2	89	40 - 160
Vinyl chloride	25.0	ND	26.2	105	70 - 130
Bromomethane	25.0	ND	24.6	99	40 - 160
Chloroethane	25.0	ND	27.7	111	40 - 160
Trichlorofluoromethane	25.0	ND	25.8	103	40 - 160
Freon 113	25.0	ND	25.4	102	70 - 130
1,1-Dichloroethene	25.0	ND	24.7	99	70 - 130
Carbon disulfide	25.0	ND	22.2	89	70 - 130
Methyl Acetate	25.0	ND	30.5	122	70 - 130
Methylene Chloride	25.0	1.91	29.1	109	70 - 130
trans-1,2-Dichloroethene	25.0	ND	25.8	103	70 - 130
1,1-Dichloroethane	25.0	ND	27.0	108	70 - 130
2,2-Dichloropropane	25.0	ND	23.4	94	70 - 130
2-Butanone	25.0	ND	32.0	128	40 - 160
cis-1,2-Dichloroethene	25.0	12.5	42.0	118	70 - 130
Chloroform	25.0	ND	26.8	107	70 - 130
Bromochloromethane	25.0	ND	28.8	115	70 - 130
Cyclohexane	25.0	ND	27.8	111	70 - 130
1,1,1-Trichloroethane	25.0	ND	27.3	109	70 - 130
t-Butyl alcohol	250	ND	332	133	40 - 160
1,1-Dichloropropene	25.0	ND	23.2	93	70 - 130
Carbon Tetrachloride	25.0	ND	23.6	94	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Analysis Method:	EPA 8260
Prep Batch:	B5H2410	Prep Method:	EPA 5030B
Percent Solids:		Laboratory ID:	B5H2410-MS1
		Client Sample ID:	1501444-02

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	QC LIMITS REC.
1,2-Dichloroethane	25.0	ND	26.5	106	70 - 130
Benzene	25.0	ND	24.5	98	70 - 130
Trichloroethene	25.0	2.01	27.2	101	70 - 130
Methylcyclohexane	25.0	ND	25.7	103	70 - 130
1,2-Dichloropropane	25.0	ND	27.1	108	70 - 130
Bromodichloromethane	25.0	ND	25.6	103	70 - 130
Dibromomethane	25.0	ND	26.8	107	70 - 130
2-Chloroethyl vinyl ether	25.0	ND	28.8	115	70 - 130
cis-1,3-Dichloropropene	25.0	ND	25.7	103	70 - 130
Toluene	25.0	ND	25.8	103	70 - 130
trans-1,3-Dichloropropene	25.0	ND	27.0	108	70 - 130
1,1,2-Trichloroethane	25.0	ND	29.3	117	70 - 130
4-Methyl-2-pentanone	25.0	ND	29.3	117	40 - 160
1,2-Dibromoethane	25.0	ND	28.0	112	70 - 130
2-Hexanone	25.0	ND	29.0	116	40 - 160
1,3-Dichloropropane	25.0	ND	25.8	103	70 - 130
Tetrachloroethene	25.0	4.74	28.1	93	70 - 130
Dibromochloromethane	25.0	ND	25.6	102	70 - 130
Ethylbenzene	25.0	ND	25.1	100	70 - 130
Chlorobenzene	25.0	ND	26.2	105	70 - 130
1,1,1,2-Tetrachloroethane	25.0	ND	26.4	105	70 - 130
m,p-Xylenes	50.0	ND	50.0	100	70 - 130
o-Xylene	50.0	ND	51.6	103	70 - 130
Styrene	50.0	ND	54.1	108	70 - 130
Bromoform	25.0	ND	26.4	106	70 - 130
Isopropylbenzene	25.0	ND	25.1	100	70 - 130

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Analysis Method:	EPA 8260
Prep Batch:	B5H2410	Prep Method:	EPA 5030B
Percent Solids:		Laboratory ID:	B5H2410-MS1
		Client Sample ID:	1501444-02

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	QC LIMITS REC.
1,1,2,2-Tetrachloroethane	25.0	ND	25.9	104	70 - 130
1,2,3-Trichloropropane	25.0	ND	26.4	106	70 - 130
n-Propyl Benzene	25.0	ND	24.8	99	70 - 130
Bromobenzene	25.0	ND	24.9	99	70 - 130
1,3,5-Trimethylbenzene	25.0	ND	25.7	103	70 - 130
2-Chlorotoluene	25.0	ND	24.7	99	70 - 130
4-Chlorotoluene	25.0	ND	25.3	101	70 - 130
tert-Butylbenzene	25.0	ND	25.5	102	70 - 130
1,2,4-Trimethylbenzene	25.0	ND	25.6	103	70 - 130
sec-Butylbenzene	25.0	ND	25.9	103	70 - 130
p-Isopropyltoluene	25.0	ND	26.0	104	70 - 130
1,3-Dichlorobenzene	25.0	ND	25.7	103	70 - 130
1,4-Dichlorobenzene	25.0	ND	25.4	102	70 - 130
n-Butyl Benzene	25.0	ND	25.5	102	70 - 130
1,2-Dichlorobenzene	25.0	1.59	27.4	103	70 - 130
1,2-Dibromo-3-chloropropane	25.0	ND	24.8	99	40 - 160
1,2,4-Trichlorobenzene	25.0	ND	27.4	110	70 - 130
Hexachlorobutadiene	25.0	ND	26.6	106	70 - 130
Naphthalene	25.0	ND	29.0	116	40 - 160
1,2,3-Trichlorobenzene	25.0	ND	28.4	114	70 - 130
Methyl tert-Butyl Ether	50.0	ND	47.7	95	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Analysis Method:	EPA 8260
Prep Batch:	B5H2410	Prep Method:	EPA 5030B
Percent Solids:		Laboratory ID:	B5H2410-MSD1
		Client Sample ID:	1501444-02

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Acrolein	125	145	116	5	20	40 - 160
Acrylonitrile	125	160	128	2	20	70 - 130
Acetone	25.0	36.9	147	8	20	40 - 160
Dichlorodifluoromethane	25.0	17.8	71	10	20	40 - 160
Chloromethane	25.0	22.8	91	3	20	40 - 160
Vinyl chloride	25.0	27.5	110	5	20	70 - 130
Bromomethane	25.0	28.9	116	16	20	40 - 160
Chloroethane	25.0	29.4	118	6	20	40 - 160
Trichlorofluoromethane	25.0	27.8	111	7	20	40 - 160
Freon 113	25.0	26.8	107	5	20	70 - 130
1,1-Dichloroethene	25.0	24.9	99	0.6	20	70 - 130
Carbon disulfide	25.0	22.8	91	2	20	70 - 130
Methyl Acetate	25.0	29.7	119	2	20	70 - 130
Methylene Chloride	25.0	30.8	116	6	20	70 - 130
trans-1,2-Dichloroethene	25.0	26.2	105	1	20	70 - 130
1,1-Dichloroethane	25.0	28.6	114	6	20	70 - 130
2,2-Dichloropropane	25.0	23.5	94	0.3	20	70 - 130
2-Butanone	25.0	30.6	122	5	20	40 - 160
cis-1,2-Dichloroethene	25.0	43.3	123	3	20	70 - 130
Chloroform	25.0	26.7	107	0.4	20	70 - 130
Bromochloromethane	25.0	29.2	117	1	20	70 - 130
Cyclohexane	25.0	28.7	115	3	20	70 - 130
1,1,1-Trichloroethane	25.0	27.8	111	2	20	70 - 130
t-Butyl alcohol	250	328	131	1	20	40 - 160
1,1-Dichloropropene	25.0	23.6	95	2	20	70 - 130
Carbon Tetrachloride	25.0	24.5	98	4	20	70 - 130
1,2-Dichloroethane	25.0	26.7	107	0.8	20	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Analysis Method:	EPA 8260
Prep Batch:	B5H2410	Prep Method:	EPA 5030B
Percent Solids:		Laboratory ID:	B5H2410-MSD1
		Client Sample ID:	1501444-02

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Benzene	25.0	25.4	101	4	20	70 - 130
Trichloroethene	25.0	28.3	105	4	20	70 - 130
Methylcyclohexane	25.0	26.9	108	5	20	70 - 130
1,2-Dichloropropane	25.0	27.9	112	3	20	70 - 130
Bromodichloromethane	25.0	27.2	109	6	20	70 - 130
Dibromomethane	25.0	28.2	113	5	20	70 - 130
2-Chloroethyl vinyl ether	25.0	28.6	115	0.7	20	70 - 130
cis-1,3-Dichloropropene	25.0	26.6	106	3	20	70 - 130
Toluene	25.0	26.5	106	3	20	70 - 130
trans-1,3-Dichloropropene	25.0	27.0	108	0.2	20	70 - 130
1,1,2-Trichloroethane	25.0	28.3	113	3	20	70 - 130
4-Methyl-2-pentanone	25.0	30.4	122	4	20	40 - 160
1,2-Dibromoethane	25.0	28.8	115	3	20	70 - 130
2-Hexanone	25.0	27.5	110	5	20	40 - 160
1,3-Dichloropropane	25.0	26.0	104	0.8	20	70 - 130
Tetrachloroethene	25.0	28.5	95	1	20	70 - 130
Dibromochloromethane	25.0	26.9	107	5	20	70 - 130
Ethylbenzene	25.0	25.4	101	1	20	70 - 130
Chlorobenzene	25.0	26.6	106	1	20	70 - 130
1,1,1,2-Tetrachloroethane	25.0	26.3	105	0.1	20	70 - 130
m,p-Xylenes	50.0	50.7	101	1	20	70 - 130
o-Xylene	50.0	51.6	103	0.08	20	70 - 130
Styrene	50.0	53.8	108	0.6	20	70 - 130
Bromoform	25.0	26.2	105	0.7	20	70 - 130
Isopropylbenzene	25.0	26.3	105	5	20	70 - 130
1,1,2,2-Tetrachloroethane	25.0	26.8	107	4	20	70 - 130
1,2,3-Trichloropropane	25.0	27.3	109	3	20	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Analysis Method:	EPA 8260
Prep Batch:	B5H2410	Prep Method:	EPA 5030B
Percent Solids:		Laboratory ID:	B5H2410-MSD1
		Client Sample ID:	1501444-02

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
n-Propyl Benzene	25.0	26.0	104	5	20	70 - 130
Bromobenzene	25.0	25.5	102	3	20	70 - 130
1,3,5-Trimethylbenzene	25.0	26.6	106	4	20	70 - 130
2-Chlorotoluene	25.0	25.2	101	2	20	70 - 130
4-Chlorotoluene	25.0	26.2	105	3	20	70 - 130
tert-Butylbenzene	25.0	26.7	107	5	20	70 - 130
1,2,4-Trimethylbenzene	25.0	26.3	105	3	20	70 - 130
sec-Butylbenzene	25.0	27.0	108	4	20	70 - 130
p-Isopropyltoluene	25.0	27.1	108	4	20	70 - 130
1,3-Dichlorobenzene	25.0	26.0	104	1	20	70 - 130
1,4-Dichlorobenzene	25.0	25.9	103	2	20	70 - 130
n-Butyl Benzene	25.0	26.3	105	3	20	70 - 130
1,2-Dichlorobenzene	25.0	27.5	104	0.3	20	70 - 130
1,2-Dibromo-3-chloropropane	25.0	27.5	110	11	20	40 - 160
1,2,4-Trichlorobenzene	25.0	26.0	104	5	20	70 - 130
Hexachlorobutadiene	25.0	26.1	104	2	20	70 - 130
Naphthalene	25.0	29.2	117	0.7	20	40 - 160
1,2,3-Trichlorobenzene	25.0	25.6	102	10	20	70 - 130
Methyl tert-Butyl Ether	50.0	48.2	96	1	20	70 - 130

* Values outside of QC limits

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Prep Method:	EPA 5030B
Prep Batch:	B5H2410	Lab Sample ID:	B5H2410-BS1

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acrolein	125	142	114	40 - 160
Acrylonitrile	125	143	115	70 - 130
Acetone	25.0	24.6	98	40 - 160
Dichlorodifluoromethane	25.0	19.5	78	40 - 160
Chloromethane	25.0	24.6	99	40 - 160
Vinyl chloride	25.0	28.6	114	70 - 130
Bromomethane	25.0	28.2	113	40 - 160
Chloroethane	25.0	31.2	125	40 - 160
Trichlorofluoromethane	25.0	28.8	115	40 - 160
Freon 113	25.0	26.5	106	70 - 130
1,1-Dichloroethene	25.0	25.1	100	70 - 130
Carbon disulfide	25.0	23.1	92	70 - 130
Methyl Acetate	25.0	28.2	113	70 - 130
Methylene Chloride	25.0	28.5	114	70 - 130
trans-1,2-Dichloroethene	25.0	26.6	107	70 - 130
1,1-Dichloroethane	25.0	28.2	113	70 - 130
2,2-Dichloropropane	25.0	25.9	104	70 - 130
2-Butanone	25.0	27.8	111	40 - 160
cis-1,2-Dichloroethene	25.0	28.2	113	70 - 130
Chloroform	25.0	27.0	108	70 - 130
Bromochloromethane	25.0	28.3	113	70 - 130
Cyclohexane	25.0	28.1	112	70 - 130
1,1,1-Trichloroethane	25.0	27.4	110	70 - 130
t-Butyl alcohol	250	289	116	40 - 160
1,1-Dichloropropene	25.0	23.7	95	70 - 130
Carbon Tetrachloride	25.0	24.4	98	70 - 130
1,2-Dichloroethane	25.0	25.0	100	70 - 130
Benzene	25.0	25.0	100	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Prep Method:	EPA 5030B
Prep Batch:	B5H2410	Lab Sample ID:	B5H2410-BS1

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Trichloroethene	25.0	24.9	100	70 - 130
Methylcyclohexane	25.0	25.8	103	70 - 130
1,2-Dichloropropane	25.0	27.2	109	70 - 130
Bromodichloromethane	25.0	25.6	102	70 - 130
Dibromomethane	25.0	25.3	101	70 - 130
2-Chloroethyl vinyl ether	25.0	26.1	104	70 - 130
cis-1,3-Dichloropropene	25.0	25.4	102	70 - 130
Toluene	25.0	27.0	108	70 - 130
trans-1,3-Dichloropropene	25.0	25.4	102	70 - 130
1,1,2-Trichloroethane	25.0	26.2	105	70 - 130
4-Methyl-2-pentanone	25.0	26.9	107	40 - 160
1,2-Dibromoethane	25.0	26.0	104	70 - 130
2-Hexanone	25.0	24.0	96	40 - 160
1,3-Dichloropropane	25.0	24.1	96	70 - 130
Tetrachloroethene	25.0	23.8	95	70 - 130
Dibromochloromethane	25.0	25.1	100	70 - 130
Ethylbenzene	25.0	25.5	102	70 - 130
Chlorobenzene	25.0	26.2	105	70 - 130
1,1,1,2-Tetrachloroethane	25.0	25.4	102	70 - 130
m,p-Xylenes	50.0	50.6	101	70 - 130
o-Xylene	50.0	51.9	104	70 - 130
Styrene	50.0	53.6	107	70 - 130
Bromoform	25.0	24.1	96	70 - 130
Isopropylbenzene	25.0	26.3	105	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.4	97	70 - 130
1,2,3-Trichloropropane	25.0	25.2	101	70 - 130
n-Propyl Benzene	25.0	25.7	103	70 - 130
Bromobenzene	25.0	24.9	100	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Prep Method:	EPA 5030B
Prep Batch:	B5H2410	Lab Sample ID:	B5H2410-BS1

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	25.0	26.9	108	70 - 130
2-Chlorotoluene	25.0	25.6	103	70 - 130
4-Chlorotoluene	25.0	25.7	103	70 - 130
tert-Butylbenzene	25.0	26.8	107	70 - 130
1,2,4-Trimethylbenzene	25.0	26.2	105	70 - 130
sec-Butylbenzene	25.0	27.0	108	70 - 130
p-Isopropyltoluene	25.0	27.0	108	70 - 130
1,3-Dichlorobenzene	25.0	26.0	104	70 - 130
1,4-Dichlorobenzene	25.0	25.1	101	70 - 130
n-Butyl Benzene	25.0	26.4	105	70 - 130
1,2-Dichlorobenzene	25.0	25.1	100	70 - 130
1,2-Dibromo-3-chloropropane	25.0	21.4	86	40 - 160
1,2,4-Trichlorobenzene	25.0	24.6	98	70 - 130
Hexachlorobutadiene	25.0	26.3	105	70 - 130
Naphthalene	25.0	23.7	95	40 - 160
1,2,3-Trichlorobenzene	25.0	24.5	98	70 - 130
Methyl tert-Butyl Ether	50.0	46.1	92	70 - 130

* Values outside of QC limits

Accredited Analytical Resources, LLC.

METHOD BLANK SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Blank ID:	B5H2410-BLK1	Batch:	B5H2410

Client Sample ID	Laboratory Sample ID	Lab File ID	Analysis Date/Time
LCS	B5H2410-BS1	M17092.D	08/24/2015 18:01
TMW-1	1501458-01	M17097.D	08/24/2015 20:48
TMW-1	1501458-01RE1	M17098.D	08/24/2015 21:22
MW 107 RRMS	B5H2410-MS1	M17099.D	08/24/2015 21:55
MW 107 RRMSD	B5H2410-MSD1	M17100.D	08/24/2015 22:28

Accredited Analytical Resources, LLC.

INSTRUMENT PERFORMANCE CHECK

EPA 8260

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1501458
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street
Lab File ID:	M16949.D	Injection Date:	08/13/15
Instrument ID:	GC/MS M	Injection Time:	12:14
Sequence:	S5H1404	Lab Sample ID:	S5H1404-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	15.9	PASS
75	30 - 60% of 95	52.1	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.45	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	96.6	PASS
175	5 - 9% of 174	6.69	PASS
176	95 - 101% of 174	97.8	PASS
177	5 - 9% of 176	6.1	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
1 ppb 8260	S5H1404-CAL1	M16950.D	08/13/2015	13:06:00
5 ppb 8260	S5H1404-CAL2	M16951.D	08/13/2015	13:40:00
10 ppb 8260	S5H1404-CAL3	M16952.D	08/13/2015	14:14:00
25 ppb 8260	S5H1404-CAL4	M16953.D	08/13/2015	14:47:00
50 ppb 8260	S5H1404-CAL5	M16954.D	08/13/2015	15:21:00
100 ppb 8260	S5H1404-CAL6	M16955.D	08/13/2015	15:54:00

Accredited Analytical Resources, LLC.

INSTRUMENT PERFORMANCE CHECK

EPA 8260

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1501458
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street
Lab File ID:	M17088.D	Injection Date:	08/24/15
Instrument ID:	GC/MS M	Injection Time:	15:01
Sequence:	S5H2407	Lab Sample ID:	S5H2407-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	15.9	PASS
75	30 - 60% of 95	51.2	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.52	PASS
173	Less than 2% of 174	0.566	PASS
174	50 - 100% of 95	85.2	PASS
175	5 - 9% of 174	6.92	PASS
176	95 - 101% of 174	98.8	PASS
177	5 - 9% of 176	6.62	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Calibration Check	S5H2407-CCV1	M17089.D	08/24/2015	15:54:00
VBLK01	B5H2410-BLK1	M17091.D	08/24/2015	17:30:00
LCS	B5H2410-BS1	M17092.D	08/24/2015	18:01:00
TMW-1	1501458-01	M17097.D	08/24/2015	20:48:00
TMW-1	1501458-01RE1	M17098.D	08/24/2015	21:22:00
MW 107 RRMS	B5H2410-MS1	M17099.D	08/24/2015	21:55:00
MW 107 RRMSD	B5H2410-MSD1	M17100.D	08/24/2015	22:28:00

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Sequence: S5H2407 Instrument: GC/MS M
Calibration: 15H2701

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S5H2407-CCV1)			*Lab File ID: M17089.D*			*Analyzed: 08/24/15 15:54*			
Pentafluorobenzene	952158	6.59	1139833	6.59	84	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1630432	7.69	1680925	7.68	97	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	1573479	12.46	1579339	12.45	100	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	928526	18.87	917707	18.85	101	50 - 200	0.0200	+/-0.50	
Blank (B5H2410-BLK1)			*Lab File ID: M17091.D*			*Analyzed: 08/24/15 17:30*			
Pentafluorobenzene	1139699	6.6	952158	6.59	120	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1731541	7.7	1630432	7.69	106	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	1461038	12.46	1573479	12.46	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	752006	18.85	928526	18.87	81	50 - 200	-0.0200	+/-0.50	
LCS (B5H2410-BS1)			*Lab File ID: M17092.D*			*Analyzed: 08/24/15 18:01*			
Pentafluorobenzene	915613	6.6	952158	6.59	96	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1572212	7.7	1630432	7.69	96	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	1529449	12.47	1573479	12.46	97	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	877319	18.87	928526	18.87	94	50 - 200	0.0000	+/-0.50	
TMW-1 (1501458-01)			*Lab File ID: M17097.D*			*Analyzed: 08/24/15 20:48*			
Pentafluorobenzene	1134902	6.6	952158	6.59	119	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1781764	7.69	1630432	7.69	109	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1558174	12.46	1573479	12.46	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	875574	18.86	928526	18.87	94	50 - 200	-0.0100	+/-0.50	
TMW-1 (1501458-01RE1)			*Lab File ID: M17098.D*			*Analyzed: 08/24/15 21:22*			
Pentafluorobenzene	1076593	6.6	952158	6.59	113	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1716367	7.7	1630432	7.69	105	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	1502636	12.46	1573479	12.46	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	821905	18.86	928526	18.87	89	50 - 200	-0.0100	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Sequence: S5H2407 Instrument: GC/MS M
Calibration: 15H2701

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (B5H2410-MS1)			*Lab File ID: M17099.D*			*Analyzed: 08/24/15 21:55*			
Pentafluorobenzene	936862	6.6	952158	6.59	98	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1580429	7.7	1630432	7.69	97	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	1553656	12.46	1573479	12.46	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	918945	18.87	928526	18.87	99	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (B5H2410-MSD1)			*Lab File ID: M17100.D*			*Analyzed: 08/24/15 22:28*			
Pentafluorobenzene	882606	6.6	952158	6.59	93	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1476837	7.7	1630432	7.69	91	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	1491073	12.46	1573479	12.46	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	859594	18.86	928526	18.87	93	50 - 200	-0.0100	+/-0.50	

* Values outside of QC limits

Accredited Analytical Resources, LLC.

VOLATILES CALIBRATION DATA

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration:	15H2701	Instrument:	GC/MS M
		Calibration Date:	8/13/2015 12:43:35PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Acrolein	5	1.418376E-02	25	1.361939E-02	50	1.359103E-02	125	1.183644E-02	250	1.105567E-02	500	1.244766E-02
Acrylonitrile	5	6.752359E-02	25	6.469325E-02	50	5.605646E-02	125	0.0569193	250	5.435432E-02	500	6.181562E-02
Acetone	1	0.1920179	5	6.303527E-02	10	5.710266E-02	25	3.874487E-02	50	4.644504E-02	100	4.470219E-02
Dichlorodifluoromethane	1	0.3018752	5	0.4096173	10	0.4124595	25	0.3725036	50	0.3543631	100	0.3606048
Chloromethane	1	0.4158349	5	0.4324344	10	0.429473	25	0.3520679	50	0.3517133	100	0.3520999
Vinyl chloride	1	0.4052276	5	0.5024441	10	0.484106	25	0.4419462	50	0.4330746	100	0.4627179
Bromomethane	1	0.1671997	5	0.1687891	10	0.1608152	25	0.1534272	50	0.1620141	100	0.1803384
Chloroethane	1	0.263322	5	0.2782238	10	0.2746894	25	0.2342191	50	0.2409617	100	0.1927087
Trichlorofluoromethane	1	0.5835786	5	0.5951309	10	0.5999958	25	0.5592976	50	0.5565483	100	0.5773766
Freon 113	1	0.2296192	5	0.2257457	10	0.214878	25	0.1992951	50	0.2047223	100	0.2224982
1,1-Dichloroethene	1	0.5330356	5	0.5700232	10	0.5201047	25	0.4986154	50	0.4946412	100	0.5286698
Carbon disulfide	1	1.053968	5	1.204448	10	1.108814	25	1.033245	50	1.045709	100	1.15454
Methyl Acetate	1	0.2273753	5	0.2750842	10	0.2338084	25	0.2325533	50	0.2259211	100	0.2569792
Methylene Chloride	1	1.115232	5	0.5978414	10	0.5037383	25	0.4197645	50	0.4195039	100	0.4533997
trans-1,2-Dichloroethene	1	0.6385639	5	0.6991494	10	0.6595133	25	0.6014018	50	0.5932711	100	0.6493641
1,1-Dichloroethane	1	0.8514789	5	0.9435743	10	0.8858491	25	0.810793	50	0.831271	100	0.9146797
Vinyl acetate	1	0.4447781	5	0.4677215	10	0.4418805	25	0.4211693	50	0.4242539	100	0.4747076
2,2-Dichloropropane	1	0.82725	5	0.811691	10	0.7539262	25	0.6983818	50	0.7066249	100	0.7913087
2-Butanone	1	8.290859E-02	5	6.757444E-02	10	8.265027E-02	25	6.970111E-02	50	7.413324E-02	100	8.089342E-02
cis-1,2-Dichloroethene	1	0.6193439	5	0.6911253	10	0.5983267	25	0.60615	50	0.588681	100	0.6477638
Chloroform	1	0.8998461	5	0.8379744	10	0.7484803	25	0.6721484	50	0.6816171	100	0.76439
Bromochloromethane	1	0.3731113	5	0.3918991	10	0.3663673	25	0.3409668	50	0.359641	100	0.3879611
Cyclohexane	1	0.6490578	5	0.6806988	10	0.6123265	25	0.5865336	50	0.5719096	100	0.6136135
1,1,1-Trichloroethane	1	0.5397218	5	0.6286592	10	0.5638107	25	0.5423758	50	0.5359945	100	0.6046219
t-Butyl alcohol	10	1.919499E-02	50	1.863021E-02	100	0.0174655	250	1.896218E-02	500	0.0178547	1000	1.993132E-02
1,1-Dichloropropene	1	0.2020189	5	0.1614289	10	0.1611241	25	0.1452665	50	0.1418084	100	0.1546289

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration:	15H2701	Instrument:	GC/MS M
		Calibration Date:	8/13/2015 12:43:35PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Carbon Tetrachloride	1	0.4057088	5	0.3877415	10	0.3836652	25	0.3596318	50	0.3479233	100	0.4004396
1,2-Dichloroethane	1	0.277848	5	0.3032849	10	0.286378	25	0.2690022	50	0.2697742	100	0.3020417
Benzene	1	1.31864	5	1.301291	10	1.31119	25	1.169706	50	1.142495	100	1.269477
Trichloroethene	1	0.255592	5	0.2879195	10	0.2875634	25	0.2513236	50	0.2547085	100	0.2814439
Methylcyclohexane	1	0.444819	5	0.4904661	10	0.4984979	25	0.4611549	50	0.4550928	100	0.5062903
1,2-Dichloropropane	1	0.2885079	5	0.3216603	10	0.3290093	25	0.3011023	50	0.2959459	100	0.3323531
Bromodichloromethane	1	0.3099285	5	0.3349525	10	0.3450689	25	0.3205614	50	0.3227992	100	0.3771171
Dibromomethane	1	0.1790426	5	0.1726682	10	0.1775957	25	0.1705704	50	0.1619223	100	0.1949969
2-Chloroethyl vinyl ether	1	0.126233	5	0.1216103	10	0.1301203	25	0.1254474	50	0.1276131	100	0.1460486
cis-1,3-Dichloropropene	1	0.4995301	5	0.5185409	10	0.5523164	25	0.5049918	50	0.4993023	100	0.5688787
Toluene	1	1.229818	5	1.134054	10	1.181049	25	1.056522	50	1.036652	100	1.139382
trans-1,3-Dichloropropene	1	0.3619746	5	0.4104055	10	0.4358523	25	0.402512	50	0.3954866	100	0.4630968
1,1,2-Trichloroethane	1	0.1634561	5	0.1941056	10	0.1837456	25	0.1719033	50	0.1660072	100	0.1811763
4-Methyl-2-pentanone	1	0.1087595	5	0.1099536	10	0.1148594	25	0.103577	50	0.1021107	100	0.1129034
1,2-Dibromoethane	1	0.1848047	5	0.2015288	10	0.205082	25	0.1825092	50	0.1849749	100	0.2137524
2-Hexanone	1	8.410196E-02	5	7.732736E-02	10	8.088669E-02	25	8.400648E-02	50	8.726853E-02	100	9.363486E-02
1,3-Dichloropropane	1	0.4204163	5	0.4674075	10	0.465288	25	0.4535031	50	0.4505009	100	0.5029428
Tetrachloroethene	1	0.3945687	5	0.4307047	10	0.4521306	25	0.4270394	50	0.4202394	100	0.4678569
Dibromochloromethane	1	0.264957	5	0.3070432	10	0.3023338	25	0.3128204	50	0.3253117	100	0.3690365
Ethylbenzene	1	1.450782	5	1.406553	10	1.412292	25	1.368282	50	1.35512	100	1.470025
Chlorobenzene	1	0.8723825	5	0.909462	10	0.9070693	25	0.8737644	50	0.8757942	100	0.9617871
1,1,1,2-Tetrachloroethane	1	0.3165742	5	0.365876	10	0.3648457	25	0.3617089	50	0.3608368	100	0.3996218
m,p-Xylenes	2	1.04699	10	1.056673	20	1.073416	50	1.015947	100	1.000952	200	1.065843
o-Xylene	2	1.0423	10	1.051398	20	1.039926	50	0.9959538	100	0.9961985	200	1.065963
Styrene	2	0.8764178	10	0.9085807	20	0.924321	50	0.8715522	100	0.8668409	200	0.9249965
Bromoform	1	0.1260906	5	0.1307118	10	0.1381163	25	0.1438391	50	0.1507688	100	0.1770352

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration: 15H2701 Instrument: GC/MS M

Calibration Date: 8/13/2015 12:43:35PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Isopropylbenzene	1	2.329549	5	2.528951	10	2.494178	25	2.401072	50	2.360299	100	2.628915
1,1,2,2-Tetrachloroethane	1	0.3437907	5	0.3839093	10	0.3699274	25	0.3582781	50	0.3603578	100	0.394693
1,2,3-Trichloropropane	1	0.2810644	5	0.3035616	10	0.2960885	25	0.2955969	50	0.3025496	100	0.3359582
n-Propyl Benzene	1	2.736727	5	2.903511	10	2.894905	25	2.801876	50	2.752223	100	3.022825
Bromobenzene	1	0.9203379	5	0.9583966	10	0.9573889	25	0.9297031	50	0.9217049	100	1.039409
1,3,5-Trimethylbenzene	1	1.740541	5	1.89981	10	1.896621	25	1.842505	50	1.817037	100	1.970101
2-Chlorotoluene	1	1.522574	5	1.597842	10	1.574364	25	1.529835	50	1.504337	100	1.655257
4-Chlorotoluene	1	1.729033	5	1.861442	10	1.806173	25	1.764793	50	1.71833	100	1.893631
tert-Butylbenzene	1	1.875756	5	1.91925	10	1.961718	25	1.900251	50	1.865715	100	2.045539
1,2,4-Trimethylbenzene	1	1.925625	5	1.894952	10	1.958986	25	1.874055	50	1.852759	100	2.014451
sec-Butylbenzene	1	2.450927	5	2.642501	10	2.671637	25	2.5542	50	2.486284	100	2.708957
p-Isopropyltoluene	1	2.380635	5	2.554376	10	2.540272	25	2.501905	50	2.420668	100	2.624556
1,3-Dichlorobenzene	1	1.444371	5	1.631913	10	1.553301	25	1.509019	50	1.509084	100	1.645678
1,4-Dichlorobenzene	1	1.545563	5	1.595424	10	1.589835	25	1.503802	50	1.493088	100	1.624298
n-Butyl Benzene	1	1.986552	5	2.005913	10	2.051755	25	1.979213	50	1.92341	100	2.048609
1,2-Dichlorobenzene	1	1.358046	5	1.316595	10	1.382685	25	1.290726	50	1.274857	100	1.353299
1,2-Dibromo-3-chloropropane	1	0.0867215	5	0.0726367	10	7.987571E-02	25	7.964557E-02	50	8.126601E-02	100	9.095439E-02
1,2,4-Trichlorobenzene	1	0.5755683	5	0.6361152	10	0.6748695	25	0.609987	50	0.6499264	100	0.6759509
Hexachlorobutadiene	1	0.3823101	5	0.3883337	10	0.3944396	25	0.3747078	50	0.3770722	100	0.415865
Naphthalene	1	1.277304	5	1.088176	10	1.252622	25	1.08828	50	1.230617	100	1.208338
1,2,3-Trichlorobenzene	1	0.438687	5	0.4105765	10	0.4958064	25	0.4021922	50	0.4835429	100	0.458537
Methyl tert-Butyl Ether	2	1.053674	10	1.215167	20	1.187381	50	1.134694	100	1.124165	200	1.25487
1,2-Dichloroethane-d4	1	0.1990226	5	0.2201681	10	0.2215462	25	0.2067017	50	0.1969233	100	0.2240865
Toluene-d8	1	0.8362955	5	0.8254476	10	0.8301099	25	0.784211	50	0.7460116	100	0.8391692
Bromofluorobenzene	1	0.3606781	5	0.3235886	10	0.323087	25	0.2889756	50	0.2873782	100	0.3183068

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration:	15H2701	Instrument:	GC/MS M
		Calibration Date:	8/13/2015 12:43:35PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	1.278899E-02	9.452192		
Acrylonitrile	6.022709E-02	8.739797		
Acetone	7.367466E-02	79.59468		
Dichlorodifluoromethane	0.3685706	11.08104		
Chloromethane	0.3889372	10.51366	SPCC (0.1)	
Vinyl chloride	0.4549194	7.794145	CCC (20)	
Bromomethane	0.1654306	5.498504		
Chloroethane	0.2473541	12.98062		
Trichlorofluoromethane	0.5786546	3.106954		
Freon 113	0.2161264	5.591091		
1,1-Dichloroethene	0.5241816	5.219601	CCC (20)	
Carbon disulfide	1.100121	6.229626		
Methyl Acetate	0.2419536	8.157217		
Methylene Chloride	0.5849133	45.87005		
trans-1,2-Dichloroethene	0.6402106	6.106667		
1,1-Dichloroethane	0.872941	5.831586	SPCC (0.1)	
Vinyl acetate	0.4457518	4.918627		
2,2-Dichloropropane	0.7648638	7.092785		
2-Butanone	7.631018E-02	8.877679		
cis-1,2-Dichloroethene	0.6252318	6.114777		
Chloroform	0.7674094	11.55585	CCC (20)	
Bromochloromethane	0.3699911	5.092812		
Cyclohexane	0.6190233	6.484092		
1,1,1-Trichloroethane	0.5691973	6.808938		
t-Butyl alcohol	1.867315E-02	4.831047		

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration:	15H2701	Instrument:	GC/MS M
		Calibration Date:	8/13/2015 12:43:35PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
1,1-Dichloropropene	0.161046	13.43067		
Carbon Tetrachloride	0.3808517	5.977727		
1,2-Dichloroethane	0.2847215	5.361367		
Benzene	1.252133	6.128497		
Trichloroethene	0.2697585	6.527788		
Methylcyclohexane	0.4760535	5.365935		
1,2-Dichloropropane	0.3114298	5.961231	CCC (20)	
Bromodichloromethane	0.3350713	7.139141		
Dibromomethane	0.1761327	6.277938		
2-Chloroethyl vinyl ether	0.1295121	6.616399		
cis-1,3-Dichloropropene	0.5239267	5.672157		
Toluene	1.129579	6.479632	CCC (20)	
trans-1,3-Dichloropropene	0.4115546	8.449615		
1,1,2-Trichloroethane	0.1767323	6.624634		
4-Methyl-2-pentanone	0.1086939	4.633918		
1,2-Dibromoethane	0.195442	6.69171		
2-Hexanone	8.453765E-02	6.607495		
1,3-Dichloropropane	0.4600098	5.854312		
Tetrachloroethene	0.43209	5.906411		
Dibromochloromethane	0.3135838	10.81144		
Ethylbenzene	1.410509	3.175958	CCC (20)	
Chlorobenzene	0.9000432	3.846929	SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.3615772	7.319746		
m,p-Xylenes	1.043304	2.761142		
o-Xylene	1.031957	2.835085		

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration:	15H2701	Instrument:	GC/MS M
		Calibration Date:	8/13/2015 12:43:35PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Styrene	0.8954515	3.009332		
Bromoform	0.144427	12.64638	SPCC (0.1)	
Isopropylbenzene	2.457161	4.634371		
1,1,2,2-Tetrachloroethane	0.3684927	5.014038	SPCC (0.3)	
1,2,3-Trichloropropane	0.3024699	6.040016		
n-Propyl Benzene	2.852011	3.822682		
Bromobenzene	0.9544901	4.706525		
1,3,5-Trimethylbenzene	1.861102	4.262299		
2-Chlorotoluene	1.564035	3.619454		
4-Chlorotoluene	1.795567	3.970084		
tert-Butylbenzene	1.928038	3.472163		
1,2,4-Trimethylbenzene	1.920138	3.101418		
sec-Butylbenzene	2.585751	4.05032		
p-Isopropyltoluene	2.503735	3.597058		
1,3-Dichlorobenzene	1.548894	5.032425		
1,4-Dichlorobenzene	1.558668	3.408465		
n-Butyl Benzene	1.999242	2.404191		
1,2-Dichlorobenzene	1.329368	3.16755		
1,2-Dibromo-3-chloropropane	8.184998E-02	7.738687		
1,2,4-Trichlorobenzene	0.6370696	6.128889		
Hexachlorobutadiene	0.3887881	3.888528		
Naphthalene	1.19089	6.948793		
1,2,3-Trichlorobenzene	0.4482237	8.492619		
Methyl tert-Butyl Ether	1.161659	6.208389		
1,2-Dichloroethane-d4	0.2114081	5.698338		

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration:	15H2701	Instrument:	GC/MS M
		Calibration Date:	8/13/2015 12:43:35PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Toluene-d8	0.8102075	4.599849		
Bromofluorobenzene	0.3170024	8.526366		

* Values outside of QC limits

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS M	Calibration:	15H2701
Lab File ID:	M17089.D	Calibration Date:	08/13/15 12:43
Sequence:	S5H2407	Injection Date:	08/24/15
Lab Sample ID:	S5H2407-CCV1	Injection Time:	15:54

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	125	129	1.278899E-02	1.322764E-02		3.4	
Acrylonitrile	A	125	146	6.022709E-02	7.017806E-02		16.5	
Acetone	L	25.0	37.5	7.367466E-02	6.876065E-02		-6.7	
Dichlorodifluoromethane	A	25.0	20.0	0.3685706	0.2956495		-19.8	
Chloromethane	A	25.0	22.0	0.3889372	0.3420409	0.1	-12.1	
Vinyl chloride	A	25.0	27.2	0.4549194	0.4945755		8.7	20
Bromomethane	A	25.0	27.7	0.1654306	0.1830684		10.7	
Chloroethane	L	25.0	27.8	0.2473541	0.2755204		11.4	
Trichlorofluoromethane	A	25.0	27.4	0.5786546	0.6341448		9.6	
Freon 113	A	25.0	27.2	0.2161264	0.2354063		8.9	
1,1-Dichloroethene	A	25.0	25.5	0.5241816	0.534928		2.1	20
Carbon disulfide	A	25.0	23.7	1.100121	1.041529		-5.3	
Methyl Acetate	A	25.0	29.5	0.2419536	0.2853455		17.9	
Methylene Chloride	L	25.0	27.8	0.5849133	0.5025185		-14.1	
trans-1,2-Dichloroethene	A	25.0	26.7	0.6402106	0.6832416		6.7	
1,1-Dichloroethane	A	25.0	28.5	0.872941	0.9935935	0.1	13.8	
Vinyl acetate	A	25.0	25.6	0.4457518	0.4564946		2.4	
2,2-Dichloropropane	A	25.0	25.4	0.7648638	0.7763092		1.5	
2-Butanone	A	25.0	29.8	7.631018E-02	9.101956E-02		19.3	
cis-1,2-Dichloroethene	A	25.0	29.6	0.6252318	0.7395632		18.3	
Chloroform	A	25.0	27.1	0.7674094	0.8317296		8.4	20
Bromochloromethane	A	25.0	28.6	0.3699911	0.4235274		14.5	
Cyclohexane	A	25.0	28.6	0.6190233	0.7069678		14.2	

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS M	Calibration:	15H2701
Lab File ID:	M17089.D	Calibration Date:	08/13/15 12:43
Sequence:	S5H2407	Injection Date:	08/24/15
Lab Sample ID:	S5H2407-CCV1	Injection Time:	15:54

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1-Trichloroethane	A	25.0	27.4	0.5691973	0.6237641		9.6	
t-Butyl alcohol	A	250	296	1.867315E-02	2.208016E-02		18.2	
1,1-Dichloropropene	A	25.0	23.8	0.161046	0.1533594		-4.8	
Carbon Tetrachloride	A	25.0	24.0	0.3808517	0.3662968		-3.8	
1,2-Dichloroethane	A	25.0	25.4	0.2847215	0.2898355		1.8	
Benzene	A	25.0	25.0	1.252133	1.250089		-0.2	
Trichloroethene	A	25.0	25.6	0.2697585	0.2762311		2.4	
Methylcyclohexane	A	25.0	25.8	0.4760535	0.4920579		3.4	
1,2-Dichloropropane	A	25.0	27.2	0.3114298	0.3388863		8.8	20
Bromodichloromethane	A	25.0	25.5	0.3350713	0.3414788		1.9	
Dibromomethane	A	25.0	26.3	0.1761327	0.1851718		5.1	
2-Chloroethyl vinyl ether	A	25.0	27.3	0.1295121	0.1414766		9.2	
cis-1,3-Dichloropropene	A	25.0	25.8	0.5239267	0.5410566		3.3	
Toluene	A	25.0	26.5	1.129579	1.198476		6.1	20
trans-1,3-Dichloropropene	A	25.0	27.0	0.4115546	0.4444301		8.0	
1,1,2-Trichloroethane	A	25.0	26.6	0.1767323	0.1882986		6.5	
4-Methyl-2-pentanone	A	25.0	27.2	0.1086939	0.1181123		8.7	
1,2-Dibromoethane	A	25.0	26.2	0.195442	0.2051242		5.0	
2-Hexanone	A	25.0	25.9	8.453765E-02	8.752452E-02		3.5	
1,3-Dichloropropane	A	25.0	24.7	0.4600098	0.454137		-1.3	
Tetrachloroethene	A	25.0	24.1	0.43209	0.4162877		-3.7	
Dibromochloromethane	A	25.0	25.8	0.3135838	0.3229303		3.0	
Ethylbenzene	A	25.0	25.4	1.410509	1.434859		1.7	20

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS M	Calibration:	15H2701
Lab File ID:	M17089.D	Calibration Date:	08/13/15 12:43
Sequence:	S5H2407	Injection Date:	08/24/15
Lab Sample ID:	S5H2407-CCV1	Injection Time:	15:54

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Chlorobenzene	A	25.0	25.8	0.9000432	0.9280709	0.3	3.1	
1,1,1,2-Tetrachloroethane	A	25.0	26.3	0.3615772	0.3806692		5.3	
m,p-Xylenes	A	50.0	51.4	1.043304	1.07154		2.7	
o-Xylene	A	50.0	51.7	1.031957	1.066626		3.4	
Styrene	A	50.0	53.7	0.8954515	0.9615454		7.4	
Bromoform	A	25.0	26.3	0.144427	0.1518717	0.1	5.2	
Isopropylbenzene	A	25.0	25.5	2.457161	2.508911		2.1	
1,1,2,2-Tetrachloroethane	A	25.0	24.7	0.3684927	0.3645348	0.3	-1.1	
1,2,3-Trichloropropane	A	25.0	25.8	0.3024699	0.3124748		3.3	
n-Propyl Benzene	A	25.0	25.3	2.852011	2.886621		1.2	
Bromobenzene	A	25.0	25.2	0.9544901	0.9610878		0.7	
1,3,5-Trimethylbenzene	A	25.0	25.6	1.861102	1.905601		2.4	
2-Chlorotoluene	A	25.0	25.1	1.564035	1.570378		0.4	
4-Chlorotoluene	A	25.0	25.5	1.795567	1.829934		1.9	
tert-Butylbenzene	A	25.0	26.1	1.928038	2.010307		4.3	
1,2,4-Trimethylbenzene	A	25.0	25.5	1.920138	1.95549		1.8	
sec-Butylbenzene	A	25.0	26.2	2.585751	2.705144		4.6	
p-Isopropyltoluene	A	25.0	26.2	2.503735	2.627835		5.0	
1,3-Dichlorobenzene	A	25.0	25.6	1.548894	1.588898		2.6	
1,4-Dichlorobenzene	A	25.0	25.5	1.558668	1.591553		2.1	
n-Butyl Benzene	A	25.0	25.9	1.999242	2.073175		3.7	
1,2-Dichlorobenzene	A	25.0	25.4	1.329368	1.348437		1.4	
1,2-Dibromo-3-chloropropane	A	25.0	24.6	8.184998E-02	8.063533E-02		-1.5	

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS M	Calibration:	15H2701
Lab File ID:	M17089.D	Calibration Date:	08/13/15 12:43
Sequence:	S5H2407	Injection Date:	08/24/15
Lab Sample ID:	S5H2407-CCV1	Injection Time:	15:54

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2,4-Trichlorobenzene	A	25.0	26.6	0.6370696	0.6782136		6.5	
Hexachlorobutadiene	A	25.0	25.9	0.3887881	0.4022031		3.5	
Naphthalene	A	25.0	26.1	1.19089	1.243929		4.5	
1,2,3-Trichlorobenzene	A	25.0	27.6	0.4482237	0.4950491		10.4	
Methyl tert-Butyl Ether	A	50.0	47.1	1.161659	1.09453		-5.8	
1,2-Dichloroethane-d4	A	25.0	27.2	0.2114081	0.2301629		8.9	
Toluene-d8	A	25.0	28.3	0.8102075	0.9180892		13.3	
Bromofluorobenzene	A	25.0	28.7	0.3170024	0.3635766		14.7	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Accredited Analytical Resources, LLC.

28 October 2016 AAR Work Order: 1601998

Sean Harrison
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street, Bronx, NY

Enclosed are the results of analyses for samples received by the laboratory on 10/18/2016 15:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	10/28/2016 14:49

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SMW-1	1601998-01	Ground Water	10/18/2016 09:40	10/18/2016 15:45
TMW-2	1601998-02	Ground Water	10/18/2016 10:20	10/18/2016 15:45
Trip Blank	1601998-03	Aqueous	10/18/2016 13:18	10/18/2016 15:45

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Methodology Summary

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	10/28/2016 14:49

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Sean Harrison

Reported:
10/28/2016 14:49

Client ID: SMW-1

Lab ID: 1601998-01 (Ground Water)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5030B

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	6.00	10.0	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.00	10.0	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
67-64-1	Acetone	ND	1.00	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
75-71-8	Dichlorodifluoromethane	ND	1.00	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.00	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.00	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.00	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.00	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.00	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	0.400	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	0.400	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	0.400	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	0.400	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	0.400	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	0.400	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	0.400	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
78-93-3	2-Butanone	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
67-66-3	Chloroform	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
71-43-2	Benzene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Sean Harrison

Reported:
10/28/2016 14:49

Client ID: SMW-1

Lab ID: 1601998-01 (Ground Water)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
108-88-3	Toluene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
100-41-4	**Ethylbenzene**	**0.500**	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	J
108-90-7	Chlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
108-38-3/106-4	**m,p-Xylenes**	**1.03**	1.00	2.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	J
95-47-6	o-Xylene	ND	1.00	2.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
100-42-5	Styrene	ND	1.00	2.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
75-25-2	Bromoform	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
98-82-8	**Isopropylbenzene**	**2.98**	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
103-65-1	**n-Propyl Benzene**	**5.57**	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	
108-86-1	Bromobenzene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Sean Harrison

Reported:
10/28/2016 14:49

Client ID: SMW-1

Lab ID: 1601998-01 (Ground Water)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
				Accredited Analytical Resources LLC						
Volatile Organic Compounds EPA Method SW846 8260										
98-06-6	tert-Butylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
135-98-8	**sec-Butylbenzene**	**0.680**	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	J
99-87-6	p-Isopropyltoluene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
104-51-8	**n-Butyl Benzene**	**0.990**	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	J
95-50-1	1,2-Dichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
91-20-3	Naphthalene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*90 %*	*70-130*		*10/20/16 17:35*	*10/20/16 17:35/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*97 %*	*70-130*		*10/20/16 17:35*	*10/20/16 17:35/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*109 %*	*70-130*		*10/20/16 17:35*	*10/20/16 17:35/SG*	*EPA 8260*	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Sean Harrison

Reported:
10/28/2016 14:49

Client ID: TMW-2

Lab ID: 1601998-02 (Ground Water)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5030B

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	6.00	10.0	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.00	10.0	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
67-64-1	Acetone	ND	1.00	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
75-71-8	Dichlorodifluoromethane	ND	1.00	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.00	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.00	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.00	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.00	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.00	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	0.400	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	0.400	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	0.400	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	0.400	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	0.400	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	0.400	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	0.400	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
78-93-3	**2-Butanone**	**0.650**	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	J
156-59-4	cis-1,2-Dichloroethene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
67-66-3	Chloroform	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
71-43-2	**Benzene**	**0.690**	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	J
79-01-6	Trichloroethene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Sean Harrison

Reported:
10/28/2016 14:49

Client ID: TMW-2

Lab ID: 1601998-02 (Ground Water)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
108-88-3	Toluene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	1.00	2.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
95-47-6	o-Xylene	ND	1.00	2.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
100-42-5	Styrene	ND	1.00	2.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
75-25-2	Bromoform	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
98-82-8	**Isopropylbenzene**	**0.560**	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
103-65-1	**n-Propyl Benzene**	**0.870**	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	J
108-86-1	Bromobenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Sean Harrison

Reported:
10/28/2016 14:49

Client ID: TMW-2

Lab ID: 1601998-02 (Ground Water)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Accredited Analytical Resources LLC										
Volatile Organic Compounds EPA Method SW846 8260										
98-06-6	tert-Butylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
91-20-3	Naphthalene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*90 %*	*70-130*		*10/20/16 18:39*	*10/20/16 18:39/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*97 %*	*70-130*		*10/20/16 18:39*	*10/20/16 18:39/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*110 %*	*70-130*		*10/20/16 18:39*	*10/20/16 18:39/SG*	*EPA 8260*	

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BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Sean Harrison

Reported:
10/28/2016 14:49

Client ID: Trip Blank

Lab ID: 1601998-03 (Aqueous)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Accredited Analytical Resources LLC										
Volatile Organic Compounds EPA Method SW846 8260										
Sample Prepared by Method:EPA 5030B										
107-02-8	Acrolein	ND	6.00	10.0	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.00	10.0	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
67-64-1	Acetone	ND	1.00	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
75-71-8	Dichlorodifluoromethane	ND	1.00	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.00	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.00	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.00	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.00	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.00	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	0.400	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	0.400	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	0.400	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	0.400	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	0.400	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	0.400	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	0.400	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
78-93-3	2-Butanone	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
67-66-3	Chloroform	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
71-43-2	Benzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Sean Harrison

Reported:
10/28/2016 14:49

Client ID: Trip Blank

Lab ID: 1601998-03 (Aqueous)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
108-88-3	Toluene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	1.00	2.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
95-47-6	o-Xylene	ND	1.00	2.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
100-42-5	Styrene	ND	1.00	2.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
75-25-2	Bromoform	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan NJ, 08736

Project: 255 East 138th Street, Bronx, NY
Project Manager: Sean Harrison

Reported:
10/28/2016 14:49

Client ID: Trip Blank

Lab ID: 1601998-03 (Aqueous)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Accredited Analytical Resources LLC										
Volatile Organic Compounds EPA Method SW846 8260										
95-63-6	1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
91-20-3	Naphthalene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*93 %*	*70-130*		*10/20/16 14:43*	*10/20/16 14:43/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*97 %*	*70-130*		*10/20/16 14:43*	*10/20/16 14:43/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*108 %*	*70-130*		*10/20/16 14:43*	*10/20/16 14:43/SG*	*EPA 8260*	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street, Bronx, NY
CONTACT:	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Sean Harrison
EMAIL FOR INVOICE:	sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1611998
P.O. #	10BR188

COLLECTION INFORMATION / ANALYSIS

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TCL VOCs (PRES. CODE → 1, CONT. CODE → 6)	AAR SAMPLE #
SMW-1	10/18/16/09:40	GW	-	2	G	X	-01
TMW-2	10/18/16/10:20	GW	-	2	G	X	-02
Trip Blank	10/18/16/1318	TB	-	2	TB	X	-03

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) (STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____ (IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL ____ EDD ✓ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Category B Data Deliverable. Hardcopy Report due by November 4, 2016.

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Sean Harrison SIGN:

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED

RELINQUISHED BY	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Sean Harrison	Print Name: K. Muniz	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 10/18/16	Time: 1545	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street, Bronx, NY

AAR Work Order: 1602078

Client Sample ID:	Lab Sample ID:
SMW-1	1602078-01
Trip Blank	1602078-02

This data has been reviewed and accepted by:

Daniel Miguel 11/04/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

Accredited Analytical Resources, LLC.

Methodology Summary

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Accredited Analytical Resources, LLC.

Internal Chain of Custody

Out	by	*In*	by

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1602078**

Received: 11/2/16 10:25

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

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20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	NJ ZIP:

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street, Bronx, NY
CONTACT:	Sean Harrison
OFFICE PHONE #	732.223.2225
OFFICE FAX #	732.223.3666
INITIAL RESULTS TO:	Sean Harrison
EMAIL FOR INVOICE:	sharrison@brinkenv.com

AAR QUOTE #:
AAR WORK ORDER #: 16J2078
P.O. #: 10BR188

COLLECTION INFORMATION / ANALYSIS

PRES. CODE → 1
CONT. CODE → G
TCL VOCs

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TCL VOCs	AAR SAMPLE #
SMW-1	11/2/16 0843	GW	-	2	G	X	-01
Trip Blank	11/2/16 0800	TB	-	2	TB	X	-02

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____
CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. (24 HRS.) OTHER _____ (IF BLANK STANDARD WILL APPLY)
Evening of 11/3/16 preferable

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL ____ EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Category B Data Deliverable. Hardcopy Report due by November 16, 2016.
COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: K. Muniz	Print Name:	Print Name:
Signature: Monica Norton	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 11 / 2 / 16	Time: 1025	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SMW-1	1602078-01	Ground Water	11/02/2016 08:43	11/02/2016 10:25
Trip Blank	1602078-02	Aqueous	11/02/2016 08:00	11/02/2016 10:25

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

VOLATILES SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: SMW-1
Lab Sample ID: 1602078-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1602078

Date Sampled:	11/02/16 08:43	Prep Date:	11/02/16 17:27	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21813.D
Prep Batch:	B6K0218	Sequence:	S6K0209	Analyzed:	11/02/16 17:27
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND	1.00	1.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	1.00	U
74-87-3	Chloromethane	ND	1.00	1.00	U
75-01-4	Vinyl chloride	ND	1.00	1.00	U
74-83-9	Bromomethane	ND	1.00	1.00	U
75-00-3	Chloroethane	ND	1.00	1.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	1.00	U
75-35-4	1,1-Dichloroethene	ND	0.400	1.00	U
75-15-0	Carbon disulfide	ND	0.400	1.00	U
75-09-2	Methylene Chloride	ND	0.400	1.00	U
156-60-5	trans-1,2-Dichloroethene	ND	0.400	1.00	U
75-34-3	1,1-Dichloroethane	ND	0.400	1.00	U
108-05-4	Vinyl acetate	ND	0.400	1.00	U
590-20-7	2,2-Dichloropropane	ND	0.400	1.00	U
78-93-3	2-Butanone	ND	0.500	1.00	U
156-59-4	cis-1,2-Dichloroethene	ND	0.500	1.00	U
67-66-3	Chloroform	ND	0.500	1.00	U
74-97-5	Bromochloromethane	ND	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane	ND	0.500	1.00	U
563-58-6	1,1-Dichloropropene	ND	0.500	1.00	U
56-23-5	Carbon Tetrachloride	ND	0.500	1.00	U
107-06-2	1,2-Dichloroethane	ND	0.500	1.00	U
71-43-2	Benzene	ND	0.500	1.00	U
79-01-6	Trichloroethene	ND	0.500	1.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: SMW-1
Lab Sample ID: 1602078-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1602078

Date Sampled:	11/02/16 08:43	Prep Date:	11/02/16 17:27	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21813.D
Prep Batch:	B6K0218	Sequence:	S6K0209	Analyzed:	11/02/16 17:27
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	0.500	1.00	U
75-27-4	Bromodichloromethane	ND	0.500	1.00	U
74-95-3	Dibromomethane	ND	0.500	1.00	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.500	1.00	U
108-88-3	Toluene	ND	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane	ND	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	1.00	U
106-93-4	1,2-Dibromoethane	ND	0.500	1.00	U
591-78-6	2-Hexanone	ND	0.500	1.00	U
142-28-9	1,3-Dichloropropane	ND	0.500	1.00	U
127-18-4	Tetrachloroethene	ND	0.500	1.00	U
124-48-1	Dibromochloromethane	ND	0.500	1.00	U
100-41-4	Ethylbenzene	ND	0.500	1.00	U
108-90-7	Chlorobenzene	ND	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.500	1.00	U
108-38-3/106-42	m,p-Xylenes	ND	1.00	2.00	U
95-47-6	o-Xylene	ND	1.00	2.00	U
100-42-5	Styrene	ND	1.00	2.00	U
75-25-2	Bromoform	ND	0.500	1.00	U
98-82-8	Isopropylbenzene	1.66	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.500	1.00	U
96-18-4	1,2,3-Trichloropropane	ND	0.500	1.00	U
103-65-1	n-Propyl Benzene	1.76	0.500	1.00	
108-86-1	Bromobenzene	ND	0.500	1.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: SMW-1
Lab Sample ID: 1602078-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1602078

Date Sampled:	11/02/16 08:43	Prep Date:	11/02/16 17:27	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21813.D
Prep Batch:	B6K0218	Sequence:	S6K0209	Analyzed:	11/02/16 17:27
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	0.500	1.00	U
95-49-8	2-Chlorotoluene	ND	0.500	1.00	U
106-43-4	4-Chlorotoluene	ND	0.500	1.00	U
98-06-6	tert-Butylbenzene	ND	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.500	1.00	U
135-98-8	sec-Butylbenzene	0.600	0.500	1.00	J
99-87-6	p-Isopropyltoluene	ND	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	1.00	U
104-51-8	n-Butyl Benzene	ND	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene	ND	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	1.00	U
87-68-3	Hexachlorobutadiene	ND	0.500	1.00	U
91-20-3	Naphthalene	ND	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.500	1.00	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	101%	70-130
Toluene-d8	98%	70-130
Bromofluorobenzene	104%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: Trip Blank
Lab Sample ID: 1602078-02
Project: 255 East 138th Street, Bronx, NY
Work Order: 1602078

Date Sampled:	11/02/16 08:00	Prep Date:	11/02/16 16:54	Matrix:	Aqueous
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21812.D
Prep Batch:	B6K0218	Sequence:	S6K0209	Analyzed:	11/02/16 16:54
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND	1.00	1.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	1.00	U
74-87-3	Chloromethane	ND	1.00	1.00	U
75-01-4	Vinyl chloride	ND	1.00	1.00	U
74-83-9	Bromomethane	ND	1.00	1.00	U
75-00-3	Chloroethane	ND	1.00	1.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	1.00	U
75-35-4	1,1-Dichloroethene	ND	0.400	1.00	U
75-15-0	Carbon disulfide	ND	0.400	1.00	U
75-09-2	Methylene Chloride	ND	0.400	1.00	U
156-60-5	trans-1,2-Dichloroethene	ND	0.400	1.00	U
75-34-3	1,1-Dichloroethane	ND	0.400	1.00	U
108-05-4	Vinyl acetate	ND	0.400	1.00	U
590-20-7	2,2-Dichloropropane	ND	0.400	1.00	U
78-93-3	2-Butanone	ND	0.500	1.00	U
156-59-4	cis-1,2-Dichloroethene	ND	0.500	1.00	U
67-66-3	Chloroform	ND	0.500	1.00	U
74-97-5	Bromochloromethane	ND	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane	ND	0.500	1.00	U
563-58-6	1,1-Dichloropropene	ND	0.500	1.00	U
56-23-5	Carbon Tetrachloride	ND	0.500	1.00	U
107-06-2	1,2-Dichloroethane	ND	0.500	1.00	U
71-43-2	Benzene	ND	0.500	1.00	U
79-01-6	Trichloroethene	ND	0.500	1.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: Trip Blank
Lab Sample ID: 1602078-02
Project: 255 East 138th Street, Bronx, NY
Work Order: 1602078

Date Sampled:	11/02/16 08:00	Prep Date:	11/02/16 16:54	Matrix:	Aqueous
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21812.D
Prep Batch:	B6K0218	Sequence:	S6K0209	Analyzed:	11/02/16 16:54
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	0.500	1.00	U
75-27-4	Bromodichloromethane	ND	0.500	1.00	U
74-95-3	Dibromomethane	ND	0.500	1.00	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.500	1.00	U
108-88-3	Toluene	ND	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane	ND	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	1.00	U
106-93-4	1,2-Dibromoethane	ND	0.500	1.00	U
591-78-6	2-Hexanone	ND	0.500	1.00	U
142-28-9	1,3-Dichloropropane	ND	0.500	1.00	U
127-18-4	Tetrachloroethene	ND	0.500	1.00	U
124-48-1	Dibromochloromethane	ND	0.500	1.00	U
100-41-4	Ethylbenzene	ND	0.500	1.00	U
108-90-7	Chlorobenzene	ND	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.500	1.00	U
108-38-3/106-42	m,p-Xylenes	ND	1.00	2.00	U
95-47-6	o-Xylene	ND	1.00	2.00	U
100-42-5	Styrene	ND	1.00	2.00	U
75-25-2	Bromoform	ND	0.500	1.00	U
98-82-8	Isopropylbenzene	ND	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.500	1.00	U
96-18-4	1,2,3-Trichloropropane	ND	0.500	1.00	U
103-65-1	n-Propyl Benzene	ND	0.500	1.00	U
108-86-1	Bromobenzene	ND	0.500	1.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

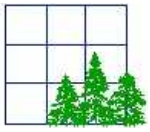
Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: Trip Blank
Lab Sample ID: 1602078-02
Project: 255 East 138th Street, Bronx, NY
Work Order: 1602078

Date Sampled:	11/02/16 08:00	Prep Date:	11/02/16 16:54	Matrix:	Aqueous
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21812.D
Prep Batch:	B6K0218	Sequence:	S6K0209	Analyzed:	11/02/16 16:54
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	0.500	1.00	U
95-49-8	2-Chlorotoluene	ND	0.500	1.00	U
106-43-4	4-Chlorotoluene	ND	0.500	1.00	U
98-06-6	tert-Butylbenzene	ND	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.500	1.00	U
135-98-8	sec-Butylbenzene	ND	0.500	1.00	U
99-87-6	p-Isopropyltoluene	ND	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	1.00	U
104-51-8	n-Butyl Benzene	ND	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene	ND	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	1.00	U
87-68-3	Hexachlorobutadiene	ND	0.500	1.00	U
91-20-3	Naphthalene	ND	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.500	1.00	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	104%	70-130
Toluene-d8	99%	70-130
Bromofluorobenzene	103%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit



ATTACHMENT XXIII

EXCAVATION WORK PLAN (EWP)

Contaminated soil remains in the Track 4 and Track 2 Remedial Areas under the Site building. Therefore, to the extent any future excavation will impact these areas of the site, this EWP will apply.

[VI]-1 NOTIFICATION

At least 15 days prior to the start of any activity that is anticipated to encounter remaining contamination, the site owner or their representative will notify the New York State Department of Environmental Conservation (NYSDEC). The table below includes contact information for the above notification. The information on this table will be updated as necessary to provide accurate contact information. A full listing of site-related contact information is provided in **Appendix II** of the Site Management Plan.

Notifications* Table

Name	**Contact Information**
Bryan Wong	yukyin.wong@dec.ny.gov
Jane O'Connell	jane.oconnell@dec.ny.gov
Kelly Lewandowski	kelly.lewandowski@dec.ny.gov

* Note: Notifications are subject to change and will be updated as necessary.

This notification will include:

- A detailed description of the work to be performed, including the location and areal extent of excavation, plans/drawings for site re-grading, intrusive elements or utilities to be installed below the soil cover, estimated volumes of contaminated soil to be excavated and any work that may impact an engineering control;

- A summary of environmental conditions anticipated to be encountered in the work areas, including the nature and concentration levels of contaminants of concern, potential presence of grossly contaminated media, and plans for any pre-construction sampling;

- A schedule for the work, detailing the start and completion of all intrusive work;
- A summary of the applicable components of this EWP;
- A statement that the work will be performed in compliance with this EWP and 29 CFR 1910.120;
- A copy of the health and safety plan (HASP), in electronic format, is provided in **Appendix VII** of this Site Management Plan (SMP);
- Identification of disposal facilities for potential waste streams; and
- Identification of sources of any anticipated backfill, along with all required chemical testing results.

[VI]-2 SOIL SCREENING METHODS

Visual, olfactory and instrument-based (e.g. photoionization detector) soil screening will be performed by a qualified environmental professional during all excavations into known or potentially contaminated material (remaining contamination). Soil screening will be performed when invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the Certificate of Completion.

Soils will be segregated based on previous environmental data and screening results into material that requires off-site disposal and material that requires testing to determine if the material can be reused on-site as soil beneath a cover or if the material can be used as cover soil. Further discussion of off-site disposal of materials and on-site reuse is provided in Section 4 of this Appendix.

[VI]-3 SOIL STAGING METHODS

Soil stockpiles will be continuously encircled with a berm and/or silt fence. Hay bales will be used as needed near catch basins, surface waters and other discharge points. Accumulated sediments will be removed as required to keep the barrier and hay bale check functional. All

undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials. Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Silt fencing or hay bales will be installed around the entire perimeter of the remedial construction area.

Excavated soil from suspected areas of contamination (e.g., hot spots, USTs, drains, etc.) will be stockpiled separately and will be segregated from clean soil and construction materials. Stockpiles will be used only when necessary and will be removed as soon as practicable. Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by the NYSDEC.

[VI]-4 MATERIALS EXCAVATION AND LOAD-OUT

A qualified environmental professional or person under their supervision will oversee all invasive work and the excavation and load-out of all excavated material.

The owner of the property and remedial party (if applicable) and its contractors are responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the site will be investigated by the qualified environmental professional. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the site.

Loaded vehicles leaving the site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and New York State Department of Transportation (NYSDOT) requirements (and all other applicable transportation requirements).

A truck wash will be operated on-site, as appropriate. The qualified environmental professional will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the site until the activities performed under this section are complete. Truck wash waters will be collected and disposed of off-site in an appropriate manner.

Locations where vehicles enter or exit the site shall be inspected daily for evidence of off-site soil tracking.

The qualified environmental professional will be responsible for ensuring that all egress points for truck and equipment transport from the site are clean of dirt and other materials derived from the site during intrusive excavation activities. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to site-derived materials.

[VI]-5 MATERIALS TRANSPORT OFF-SITE

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Material transported by trucks exiting the site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

Truck transport routes are as follows: head northwest on E. 138th Street toward Rider Ave, turn right onto Gerard Ave, take the I-87 N/Major Deegan Expressway ramp on the left to Albany, merge onto I-87, take exit 7S and merge onto I-95 South towards the George Washington Bridge to New Jersey. All trucks loaded with site materials will exit the vicinity of the site using only these approved truck routes. This is the most appropriate route and takes into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city mapped truck routes; (c) prohibiting off-site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; (f) overall safety in transport; and (g) community input.

Trucks will be prohibited from stopping and idling in the neighborhood outside the project site. Egress points for truck and equipment transport from the site will be kept clean of dirt and other materials during site remediation and development. Queuing of trucks will be performed on-site in order to minimize off-site disturbance. Off-site queuing will be prohibited.

[VI]-6 MATERIALS DISPOSAL OFF-SITE

All material excavated and removed from the Track 4 and under the Track 2 areas on the site will be treated as contaminated and regulated material and will be transported and disposed

in accordance with all local, State (including 6NYCRR Part 360) and Federal regulations. If disposal of material from this site is proposed for unregulated off-site disposal (i.e. clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC. Unregulated off-site management of materials from this site will not occur without formal NYSDEC approval.

Off-site disposal locations for excavated soils will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class of disposal facility if appropriate, i.e. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C/D recycling facility, etc. Actual disposal quantities and associated documentation will be reported to the NYSDEC in the Periodic Review Report. This documentation will include: waste profiles, test results, facility acceptance letters, manifests, bills of lading and facility receipts.

Non-hazardous historic fill and contaminated soils taken off-site will be handled, at minimum, as a Municipal Solid Waste per 6NYCRR Part 360-1.2. Material that does not meet Unrestricted SCOs is prohibited from being taken to a New York State recycling facility (6NYCRR Part 360-16 Registration Facility).

[VI]-7 MATERIALS REUSE ON-SITE

Soil originating from the site may be reused on the site if sampling of the soil demonstrates compliance with the NYSDEC Restricted-Residential Use (Track 2) Soil Cleanup Objectives (SCOs).

The qualified environmental professional will ensure that procedures defined for materials reuse in this SMP are followed and that unacceptable material does not remain on-site. Contaminated on-site material, including historic fill and contaminated soil, that is acceptable for reuse on-site will be placed below the demarcation layer or impervious surface, and will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines.

Any demolition material proposed for reuse on-site will be sampled for asbestos and the results will be reported to the NYSDEC for acceptance. Concrete crushing or processing on-site will not be performed without prior NYSDEC approval. Organic matter (wood, roots, stumps,

etc.) or other solid waste derived from clearing and grubbing of the site will not be reused on-site.

[VI]-8 FLUIDS MANAGEMENT

All liquids to be removed from the site, including but not limited to, excavation dewatering, decontamination waters and groundwater monitoring well purge and development waters, will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations. Liquids discharged into the New York City sewer system will receive prior approval by the New York City Department of Environmental Protection (NYCDEP). The NYCDEP regulates discharges to the New York City sewers under Title 15, Rules of the City of New York, Chapter 19. Discharge to the New York City sewer system will require an authorization and sampling data demonstrating that the groundwater meets the City's discharge criteria. The dewatering fluid will be pretreated as necessary to meet the NYCDEP discharge criteria. If discharge to the City sewer system is not appropriate, the dewatering fluids will be managed by transportation and disposal at an off-Site treatment facility. Dewatering, purge and development fluids will not be recharged back to the land surface or subsurface of the site, and will be managed off-site, unless prior approval is obtained from NYSDEC.

Discharge of water generated during large-scale construction activities to surface waters (i.e. a local pond, stream or river) will be performed under a SPDES permit.

[VI]-9 COVER SYSTEM RESTORATION

After the completion of soil removal and any other invasive activities in the Track 1, 2, and 4 Areas, the cover system will be restored in a manner that complies with the RAWP and Decision Document. The existing Track 4 Remedial Area cover system is comprised of at a minimum, a four (4) to six (6)-inch concrete slab and an approximate one (1) to two (2)-foot layer of recycled concrete aggregate (RCA) and/or virgin quarry stone. As part of development, the Track 4 Remedial Area cover system overlies the second engineering control that serves the Track 4 and Track 2 Areas of the Site, the vapor barrier membrane. The demarcation layer, consisting of the Preprufe 300R waterproofing/vapor barrier membrane will be replaced to provide a visual reference to the top of the remaining contamination zone, the zone that requires adherence to special conditions for disturbance of remaining contaminated soils defined in this

SMP. If the type of cover system changes from that which exists prior to the excavation (i.e., a soil cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper surface of the remaining contamination. A figure showing the modified surface will be included in the subsequent Periodic Review Report and in an updated SMP.

[VI]-10 BACKFILL FROM OFF-SITE SOURCES

All materials proposed for import onto the site will be approved by the qualified environmental professional and will be in compliance with provisions in this SMP prior to receipt at the site. A Request to Import/Reuse Fill or Soil form, which can be found at http://www.dec.ny.gov/regulations/67386.html, will be prepared and submitted to the NYSDEC project manager allowing a minimum of 5 business days for review.

Material from industrial sites, spill sites, or other environmental remediation sites or potentially contaminated sites will not be imported to the site.

All imported soils will meet the backfill and cover soil quality standards established in 6NYCRR 375-6.7(d). Based on an evaluation of the land use, protection of groundwater and protection of ecological resources criteria, the resulting soil quality standards are listed in Table 375-6.8(b). Soils that meet 'exempt' fill requirements under 6 NYCRR Part 360, but do not meet backfill or cover soil objectives for this site, will not be imported onto the site without prior approval by NYSDEC. Solid waste will not be imported onto the site.

Trucks entering the site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

[VI]-11 STORMWATER POLLUTION PREVENTION

Barriers and hay bale checks will be installed and inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by the NYSDEC. All necessary repairs shall be made immediately.

Accumulated sediments will be removed as required to keep the barrier and hay bale check functional.

All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials.

Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures identified in the SMP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.

Silt fencing or hay bales will be installed around the entire perimeter of the construction area.

[VI]-12 EXCAVATION CONTINGENCY PLAN

If underground tanks or other previously unidentified contaminant sources are found during post-remedial subsurface excavations or development related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition.

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for a full list of analytes (TAL metals; TCL volatiles and semi-volatiles, TCL pesticides and PCBs), unless the site history and previous sampling results provide a sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC for approval prior to sampling.

Identification of unknown or unexpected contaminated media identified by screening during invasive site work will be promptly communicated by phone to NYSDEC's Project Manager. Reportable quantities of petroleum product will also be reported to the NYSDEC spills hotline. These findings will be also included in the Periodic Review Report.

[VI]-13 OTHER NUISANCES

Odor Control

All necessary means will be employed to prevent on- and off-Site odor nuisances. At a minimum, procedures will include: (a) limiting the area of open excavations; (b) shrouding open excavations with tarps and other covers; and, (c) use of foams to cover exposed odorous soils. If odors develop and cannot otherwise be controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-Site disposal; and, (e) use of chemical

odorants in spray or misting systems.

This odor control plan is capable of controlling emissions of nuisance odors. If nuisance odors are identified, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC will be notified of all odor complaint events. Implementation of all odor controls, including halt of work, will be the responsibility of the PE/QEP certifying the FER.

Dust Control

Dust management during invasive on-Site work will include, at a minimum:

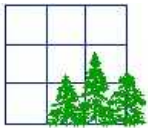
- Use of a dedicated water spray methodology for roads, excavation areas, and stockpiles;
- Use of properly anchored tarps to cover stockpiles;
- Exercise of extra care during dry and high-wind periods; and,
- Use of gravel or RCA on egress and other roadways to provide a clean and dust-free road surface.

This dust control plan is capable of controlling dust generation. If nuisance dust emissions are identified, work will be halted and the source of dusts will be identified and corrected. Work will not resume until all nuisance dust emissions have been abated. NYSDEC will be notified of all dust complaint events. Implementation of all dust controls, including halt of work, will be the responsibility of the PE/QEP responsible for certifying the FER.

Other Nuisance Controls

A plan for rodent control will be developed and utilized by the contractor prior to and during site clearing and site grubbing, and during all remedial work.

A plan will be developed and utilized by the contractor for all remedial work to ensure compliance with local noise control ordinances.



ATTACHMENT XXIV

GRACE

PREPRUFE® 300R & 160R

Pre-applied waterproofing membranes that bond integrally to poured concrete for use below slabs or behind basement walls on confined sites

Description

Preprufe® 300R & 160R membranes are unique composite sheets comprising a thick HDPE film, an aggressive pressure sensitive adhesive and a weather resistant protective coating.

Unlike conventional non-adhering membranes, which are vulnerable to water ingress tracking between the unbonded membrane and structure, the unique Preprufe bond to concrete prevents ingress or migration of water around the structure.

The Preprufe R System includes:

- **Preprufe 300R**—heavy-duty grade for use below slabs and on rafts (i.e. mud slabs). Designed to accept the placing of heavy reinforcement using conventional concrete spacers.
- **Preprufe 160R**—thinner grade for blindside, zero property line applications against soil retention systems.
- **Preprufe Tape LT**—for covering cut edges, roll ends, penetrations and detailing (temperatures between 25°F (-4°C) and 86°F (+30°C)).
- **Preprufe Tape HC**—as above for use in Hot Climates (minimum 50°F (10°C)).
- **Bituthene® Liquid Membrane**—for sealing around penetrations, etc.

Preprufe 300R & 160R membranes are applied either horizontally to smooth prepared concrete, carton forms or well rolled and compacted sand or crushed stone substrate; or vertically to permanent formwork or adjoining structures. Concrete is then cast directly against the adhesive side of the membranes. The specially developed Preprufe adhesive layers work together to form a continuous and integral seal to the structure.

Preprufe can be returned up the inside face of slab formwork but is not recommended for conventional twin-sided formwork on walls, etc. Use Bituthene self-adhesive membrane or Procor® fluid applied membrane to walls after removal of formwork for a fully bonded system to all structural surfaces.

Advantages

- **Forms a unique continuous adhesive bond to concrete poured against it**—prevents water migration and makes it unaffected by ground settlement beneath slabs
- **Fully-adhered watertight laps** and detailing
- **Provides a barrier to water, moisture and gas**—physically isolates the structure from the surrounding ground
- **BBA Certified** for basement Grades 2, 3, & 4 to BS 8102:1990
- **Zero permeance** to moisture
- **Solar reflective**—reduced temperature gain
- **Simple and quick to install**—requiring no priming or fillets
- **Can be applied to permanent formwork**—allows maximum use of confined sites
- **Self protecting**—can be trafficked immediately after application and ready for immediate placing of reinforcement
- **Unaffected by wet conditions**—cannot activate prematurely
- Inherently waterproof, non-reactive system:
  - not reliant on confining pressures or hydration
  - unaffected by freeze/thaw, wet/dry cycling
- **Chemical resistant**—effective in most types of soils and waters, protects structure from salt or sulphate attack

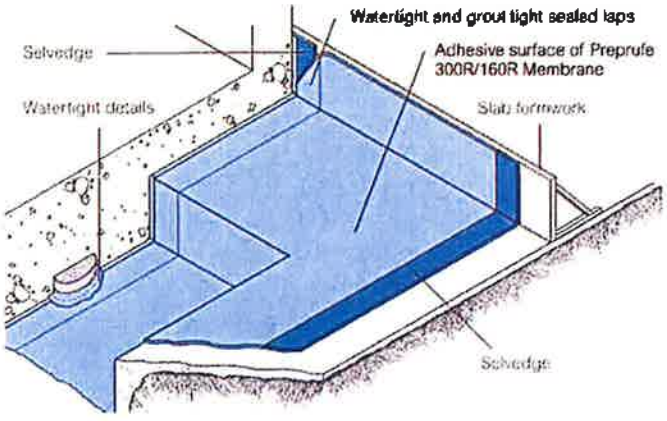
Installation

The most current application instructions, detail drawings and technical letters can be viewed at www.graceconstruction.com. Technical letters are provided for the following subjects to assist in the installation of Preprufe:

- Chemical Resistance
- Minimizing Concrete Shrinkage and Curling
- Rebar Chairs on Preprufe 300R Membrane
- Removal of Formwork Placed Against Preprufe Membranes
- Winter Lap Sealing and the use of Preprufe Tape LT

For other technical information contact your local Grace representative.

Preprufe 300R & 160R membranes are supplied in rolls 4 ft (1.2 m) wide, with a selvedge on one side to provide self-adhered laps for continuity between rolls. The rolls of Preprufe Membrane and Preprufe Tape are interwound with a disposable plastic release liner which must be removed before placing reinforcement and concrete.



Drawings are for illustration purposes only.
Please refer to www.graceconstruction.com for specific application details.

Substrate Preparation

All surfaces—It is essential to create a sound and solid substrate to eliminate movement during the concrete pour. Substrates must be regular and smooth with no gaps or voids greater than 0.5 in. (12 mm). Grout around all penetrations such as utility conduits, etc. for stability (see Figure 1).

Horizontal—The substrate must be free of loose aggregate and sharp protrusions. Avoid curved or rounded substrates. The surface does not need to be dry, but standing water must be removed.

Vertical—Use concrete, plywood, insulation or other approved facing to sheet piling to provide support to the membrane. Board systems such as timber lagging must be close butted to provide support and not more than 0.5 in. (12 mm) out of alignment.

Membrane Installation

Preprufe can be applied at temperatures of 25°F (-4°C) or above. When installing Preprufe in cold or marginal weather conditions 55°F (<13°C) the use of Preprufe Tape LT is recommended at all laps and detailing. Preprufe Tape LT should be applied to clean, dry surfaces and the release liner must be removed immediately after application.

Horizontal substrates—Place the membrane HDPE film side to the substrate with the clear plastic release liner facing towards the concrete pour. End laps should be staggered to avoid a build up of layers. Leave plastic release liner in position until overlap procedure is completed (see Figure 2).

Accurately position succeeding sheets to overlap the previous sheet 3 in. (75 mm) along the marked selvedge. Ensure the underside of the succeeding sheet is clean, dry and free from contamination before attempting to overlap. Peel back the plastic release liner from between the overlaps as the two layers are bonded together. Ensure a continuous bond is achieved without creases and roll firmly with a heavy roller. Completely remove the plastic liner to expose the protective coating. Any initial tack will quickly disappear.

Refer to Grace Tech Letters for information on suitable rebar chairs for Preprufe.

Vertical substrates—Mechanically fasten the membrane vertically using fasteners appropriate to the substrate with the the clear plastic release liner facing towards the concrete pour. The membrane may be installed in any convenient length. Secure the top of the membrane using a batten such as a termination bar or similar 2 in. (50 mm) below the top edge (see Figure 3). Fastening can be made through the selvedge so that the membrane lays flat and allows firmly rolled overlaps. Immediately remove the plastic release liner. Any additional fasteners must be covered with a patch of Preprufe Tape (see Figure 4).

Ensure the underside of the succeeding sheet is clean, dry and free from contamination before attempting to overlap. Roll firmly to ensure a watertight seal.

Roll ends and cut edges—Overlap all roll ends and cut edges by a minimum 3 in. (75 mm) and ensure the area is clean and free from contamination, wiping with a damp cloth if necessary. Allow to dry and apply Preprufe Tape LT (or HC in hot climates) centered over the lap and roll firmly. Immediately remove printed plastic release liner from the tape.

Details

Refer to Preprufe Field Application Manual, Section V Application Instructions or visit www.graceconstruction.com. This Manual gives comprehensive guidance and standard details for:

- internal and external corners
- penetrations
- tiebacks
- columns
- grade beam pilecaps
- tie-ins
- terminations

Membrane Repair

Inspect the membrane before installation of reinforcement steel, formwork and final placement of concrete. The membrane can be easily cleaned by jet washing if required. Repair damage by wiping the area with a damp cloth to ensure the area is clean and free from dust, and allow to dry. Repair small punctures (0.5 in. (12 mm) or less) and slices by applying Preprufe Tape centered over the damaged area and roll firmly. Remove the release liner from the tape. Repair holes and large punctures by applying a patch of Preprufe membrane, which extends 6 in. (150 mm) beyond the damaged area. Seal all edges of the patch with Preprufe Tape, remove the release liner from the tape and roll firmly. Any areas of damaged adhesive should be covered with Preprufe Tape. Remove printed plastic release liner from tape. Where exposed selvedge has lost adhesion or laps have not been sealed, ensure the area is clean and dry and cover with fresh Preprufe Tape, rolling firmly. Alternatively, use a hot air gun or similar to activate adhesive and firmly roll lap to achieve continuity.

Pouring of Concrete

Ensure the plastic release liner is removed from all areas of Preprufe R Membrane and Tape.

It is recommended that concrete be poured within 56 days (42 days in hot climates) of application of the membrane. Concrete must be placed and compacted carefully to avoid damage to the membrane. Never use a sharp object to consolidate the concrete.

Removal of Formwork

Preprufe membranes can be applied to removable formwork, such as slab perimeters, elevator and lift pits, etc. Once the concrete is poured the formwork must remain in place until the concrete has gained sufficient compressive strength to develop the surface bond. Preprufe membranes are not recommended for conventional twin-sided wall forming systems.

A minimum concrete compressive strength of 1500 psi (10 N/mm²) is recommended prior to stripping formwork supporting Preprufe membranes. Premature stripping may result in displacement of the membrane and/or spalling of the concrete.

As a guide, to reach the minimum compressive strength stated above, a structural concrete mix with an ultimate strength of 6000 psi (40 N/mm²) will typically require a cure time of approximately 6 days at an average ambient temperature of 25°F (-4°C), or 2 days at 70°F (21°C).

Figure 1

Figure 2

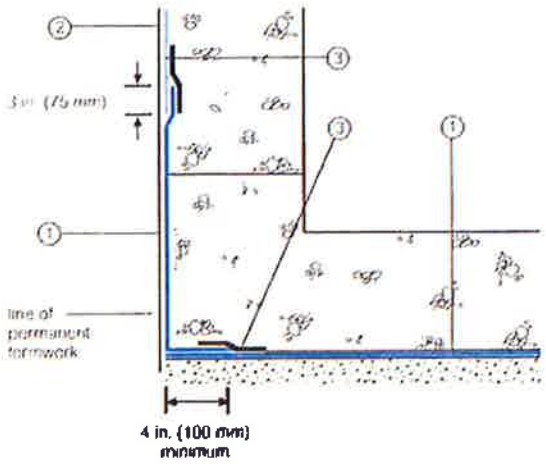
Figure 3

Figure 4

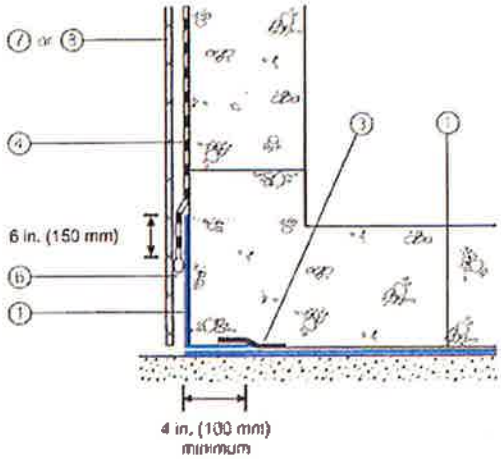
Detail Drawings

Details shown are typical illustrations and not working details. For a list of the most current details, visit us at www.graceconstruction.com. For technical assistance with detailing and problem solving please call toll free at 866-333-3SBM (3726).

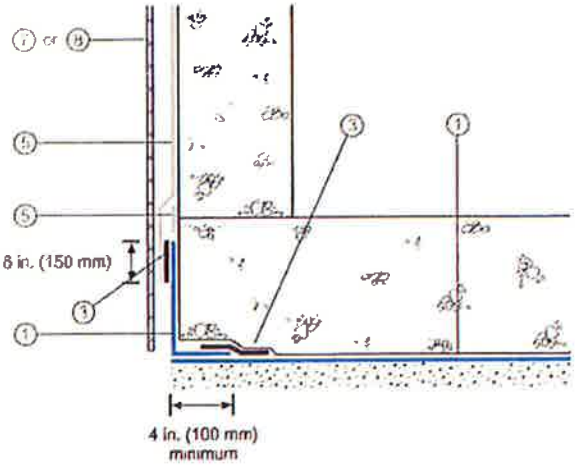
Wall base detail against permanent shutter



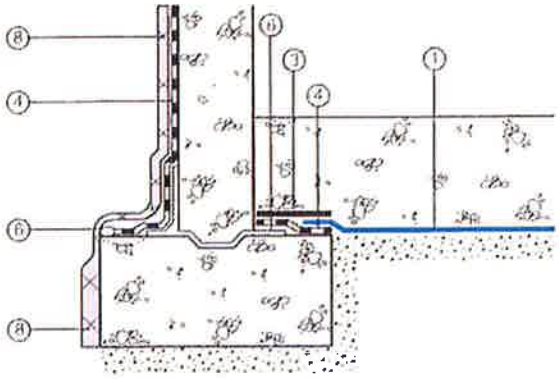
Bituthene wall base detail (Option 1)



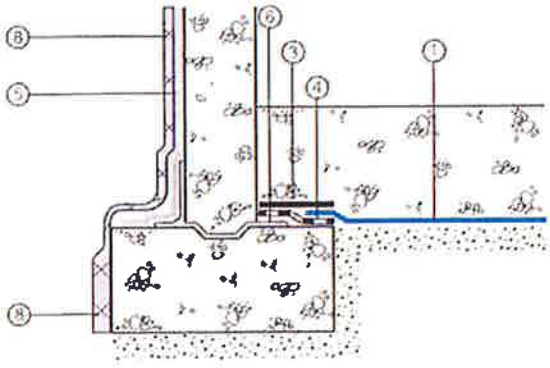
Procor wall base detail (Option 1)



Bituthene wall base detail (Option 2)



Procor wall base detail (Option 2)



1 Preprufe 300R
2 Preprufe 160R
3 Preprufe Tape
4 Bituthene
5 Procor
6 Bituthene Liquid Membrane
7 Protection
8 Hydroduct®

Supply

Dimensions (Nominal)	Preprufe 300R Membrane	Preprufe 160R Membrane	Preprufe Tape (LT or HC*)
Thickness	0.046 in. (1.2 mm)	0.032 in. (0.8 mm)	
Roll size	4 ft x 98 ft (1.2 m x 30 m)	4 ft x 115 ft (1.2 m x 35 m)	4 in. x 49 ft (100 mm x 15 m)
Roll area	392 ft² (36 m²)	460 ft² (42 m²)	
Roll weight	108 lbs (50 kg)	92 lbs (42 kg)	4.3 lbs (2 kg)
Minimum side/end laps	3 in. (75 mm)	3 in. (75 mm)	3 in. (75 mm)
* LT denotes Low Temperature (between 25°F (-4°C) and 86°F (+30°C)) HC denotes Hot Climate (50°F (>+10°C))			
Ancillary Products			
Bituthene Liquid Membrane—1.5 US gal (5.7 liter) or 4 US gal (15.1 liter)			

Physical Properties

Property	Typical Value 300R	Typical Value 160R	Test Method
Color	white	white	
Thickness	0.046 in. (1.2 mm) nominal	0.032 in. (0.8 mm) nominal	ASTM D3767
Low temperature flexibility	Unaffected at -10°F (-23°C)	Unaffected at -10°F (-23°C)	ASTM D1970
Resistance to hydrostatic head, minimum	231 ft (70 m)	231 ft (70 m)	ASTM D5385, modified[1]
Elongation, minimum	300%	300%	ASTM D412, modified[2]
Tensile strength, film, minimum	4000 psi (27.6 MPa)	4000 psi (27.6 MPa)	ASTM D412
Crack cycling at -10°F (-23°C), 100 cycles	Unaffected	Unaffected	ASTM C836
Puncture resistance, minimum	221 lbs (990 N)	100 lbs (445 N)	ASTM E154
Peel adhesion to concrete, minimum	5.0 lbs/in. (880 N/m) width	5.0 lbs/in. (880 N/m) width	ASTM D903, modified[3]
Lap peel adhesion	2.5 lbs/in. (440 N/m) width	2.5 lbs/in. (440 N/m) width	ASTM D1876, modified[4]
Permeance to water vapor transmission, maximum	0.01 perms (0.6 ng/(Pa × s × m²))	0.01 perms (0.6 ng/(Pa × s × m²))	ASTM E96, method B
Water absorption, maximum	0.5%	0.5%	ASTM D570
Methane permeability	9.1 mls/m²/day	N/A	University of London, QMW College[3]
Permeability[5] (hydraulic conductivity)	K=<1.4 x 10^{-11}cm.s^{-1}	K=<1.4 x 10^{-11}cm.s^{-1}	ASTM D5084-90

Footnotes:

1. Hydrostatic head tests of Preprufe Membranes are performed by casting concrete against the membrane with a lap. Before the concrete cures, a 0.125 in. (3 mm) spacer is inserted perpendicular to the membrane to create a gap. The cured block is placed in a chamber where water is introduced to the membrane surface up to the head indicated.
2. Elongation of membrane is run at a rate of 2 in. (50 mm) per minute.
3. Concrete is cast against the protective coating surface of the membrane and allowed to properly dry (7 days minimum). Peel adhesion of membrane to concrete is measured at a rate of 2 in. (50 mm) per minute at room temperature.
4. The test is conducted 15 minutes after the lap is formed (per Grace published recommendations) and run at a rate of 2 in. (50 mm) per minute at 25°F (-4°C).
5. Result is lower limit of apparatus. Membrane therefore considered impermeable.

Specification Clauses

Preprufe 300R or 160R shall be applied with its adhesive face presented to receive fresh concrete to which it will integrally bond. Only Grace Construction Products approved membranes shall be bonded to Preprufe 300R/160R. All Preprufe 300R/160R system materials shall be supplied by Grace Construction Products, and applied strictly in accordance with their instructions.

Specimen performance and formatted clauses are also available.

NOTE: Use Preprufe Tape to tie-in Procor with Preprufe.

Health and Safety

Refer to relevant Material Safety data sheet. Complete rolls should be handled by a minimum of two persons.

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GRACE

Submittal #071500-3.0
071500 - Underslab Membrane

Lettire Construction

Project: EAS-138 - 255 East 138th Street
255 East 138th Street
Bronx, New York 10451
Phone: 212-996-6640

Foundation Waterproofing Materials product Information

SPEC SECTION:	071500 - Underslab Membrane	**CREATED BY:**	Alexander Adduci**(Lettire Construction)**
STATUS:	Open	**DATE CREATED:**	02/12/2016
ISSUE DATE:	//	**REVISION:**	0
RESPONSIBLE CONTRACTOR:	ACA Contracting, Inc.	**RECEIVED FROM:**	Nick Mustakas
RECEIVED DATE:	//	**SUBMIT BY:**	//
FINAL DUE DATE:	02/19/2016	**LOCATION:**	
TYPE:	Product Information	**COST CODE:**	
APPROVERS:	Eli Cohn **(MHG Architects)**		

BALL IN COURT:
Eli Cohn **(MHG Architects)**

DISTRIBUTION:
Nick Mustakas **(ACA Contracting, Inc.)**, Sam Massaro **(Lettire Construction)**, Ratko Krneta **(Lettire Construction)**, Jen Hlavac **(Lettire Construction)**, Alexander Adduci **(Lettire Construction)**

DESCRIPTION:

ATTACHMENTS:
Grace B2 LVC Primer Data.pdf Grace Preprufe Tape _ CJ Tape Data.pdf

SUBMITTAL WORKFLOW

#	NAME	SUBMITTER/ APPROVER	SENT DATE	DUE DATE	RETURNED DATE	RESPONSE	ATTACHMENTS	COMMENTS
1	Eli Cohn	Approver	2/12/2016	2/19/2016		Pending		

MHG ARCHITECTS, P.C.
443 PARK AVENUE SOUTH
NEW YORK, NY 10016
TEL: (212) 689-7070

X	NO EXCEPTION TAKEN
	EXCEPTIONS TAKEN AS NOTED
	REVISE AND RESUBMIT
	REJECTED
	SUBMIT SPECIFIED ITEM

DATE	CHECKED BY
2/17/16	EC

CHECKING IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR QUANTITIES, DIMENSIONS, AND COMPLIANCE WITH CONTRACT DOCUMENTS, AND FOR INFORMATION THAT PERTAINS TO FABRICATION PROCESSES OR TECHNIQUES OF CONSTRUCTION, AND FOR COORDINATION OF ALL TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.

BY **DATE** **COPIES TO**

BITUTHENE® ADHESIVE PRIMER B2 LVC

Specially formulated low VOC primer for use with Grace self-adhered membranes on green concrete or damp substrates

Description

Bituthene® Adhesive Primer B2 LVC is a low VOC primer in solvent specially formulated to provide good initial adhesion of Grace self-adhered membranes.

In addition, its formulation promotes the adhesion of Grace self-adhered membranes to green concrete and damp surfaces.

The VOC (Volatile Organic Compound) content is <200 g/L and is compliant with all state and local VOC requirements for Adhesives and Sealants.

Architectural and Industrial Maintenance Regulations limit the VOC content in products classified as Adhesive Primers. Refer to Technical Letters at graceconstruction.com for most current list of allowable limits.

Use

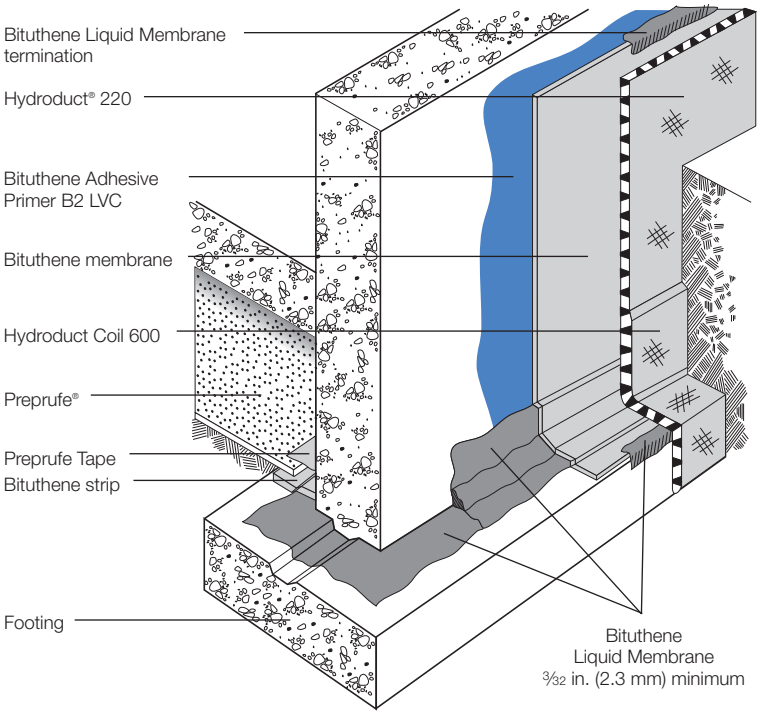
Bituthene Adhesive Primer B2 LVC is used to prime green concrete (less than seven day cure for normal structural concrete). It is also used to prime damp concrete, masonry, gypsum sheathing or wood surfaces on which Grace self-adhered membranes will be applied.

Bituthene Adhesive Primer B2 LVC is used for vertical and horizontal applications at 25ºF (-4ºC) or above.

Application Procedures

Safety, Storage and Handling Information

Grace products must be handled properly. Vapors from solvent-based primers and mastic are harmful and flammable. For these products, the best available information on safe handling, storage, personal protection, health and environmental considerations has been gathered. Material Safety Data Sheets (MSDS) are available at graceconstruction.com and users should acquaint themselves with this information. Carefully read detailed precaution statements on product labels and the MSDS before use.



Drawings are for illustration purposes only.
Please refer to graceconstruction.com for specific application details.

Supply

Bituthene Adhesive Primer B2 LVC	
Unit size	5 gal (18.9 L) pail
Weight	44 lbs (20 kg)/pail
Units per pallet	48 pails
Approximate Coverage	325–425 ft^2/gal (7.5–10.0 m^2/L)

Application

Bituthene Adhesive Primer B2 LVC may be applied by roller or brush. Use a heavy nap roller made of natural material, such as lamb's wool.

Stir until a uniform color and consistency is achieved.

Apply it to clean, dirt free, frost-free surfaces at an approximate coverage rate of 325–425 ft^2/gal (7.5–10.0 m^2/L). Do not apply to frozen concrete or to areas with standing or visible water. Do not use during wet weather. Allow Bituthene Adhesive Primer B2 LVC to dry one hour or until tack-free. Dry time may be longer in cold temperatures. Deep puddles of primer should be avoided as this will lengthen drying time. Rollers or brushes should be dipped into pans. Avoid pouring primer directly onto a horizontal substrate. Do not apply directly to Grace self-adhered membrane.

In general, priming should be limited to an area that can be covered with membrane within 24 hours. Areas that accumulate significant amounts of dust or dirt must be reprimed before membrane is applied.

Although it may be used on green concrete and damp surfaces, moisture may become trapped under the membrane. This may result in blistering, particularly on warm, sunny days. Therefore, cover the membrane as soon as possible to minimize blistering. If blistering occurs, allow membrane to cool and re-roll with heavy roller. Blisters over 4 in. (100 mm) in diameter should be cut and patched.

Clean tools with mineral spirits at the end of each day. Mineral spirits is a combustible liquid and should be used only in accordance with the manufacturer's safety recommendations. **Do not use solvents to clean hands or skin.**

www.graceconstruction.com

For technical assistance call toll free at 866-333-3SBM (3726)

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PREPRUFE® TAPE and PREPRUFE® CJ TAPE

Description

Preprufe® Tape and Preprufe® CJ Tape are specially formulated two sided, reinforced pressure sensitive tapes. The bottom side of the tape has a highly aggressive pressure sensitive adhesive which is designed to adhere to penetrations, protrusions and Grace waterproofing membranes and accessories. The top side of the tape has a pressure sensitive adhesive, a weather resistant protective coating an a release liner. Concrete is cast directly against the top adhesive side of the tape. The specially developed Preprufe adhesive layers work together to form a continuous and integral seal to the structure.

Preprufe Tape and Preprufe CJ Tape are provided in Low Temperature and Hot Climate Grades as follows:

- **Preprufe Tape LT Grade and Preprufe CJ Tape LT Grade**—for temperatures between 25°F (-4°C) and 86°F (+30°C).
- **Preprufe Tape HC Grade and Preprufe CJ Tape HC Grade**—for use in Hot Climates (minimum 50°F (10°C)).

Use

Preprufe Tape is a 4 in. (100 mm) wide tape used in detail areas including end laps, penetrations and various tie-ins. It is also used to patch damaged areas in the Preprufe membranes.

Preprufe CJ Tape is an 8 in. (200 mm) wide tape used at construction joints in the concrete that is cast against it or in critical areas where a wider tape is required.

Application

Wipe substrates to receive Preprufe Tape and Preprufe CJ Tape clean to remove any dirt, dust or moisture. Clean the surface of penetrations or protrusions with a wire brush to remove dirt, dust, rust and loose particles.

Unroll the tape and adhere the exposed pressure sensitive adhesive surface to the membrane or penetration. The protective coating surface of the tape should face toward the concrete to be cast onto the tape.

Use heavy hand pressure or a hand roller to maximize adhesion. Remove the release liner during application.

Ensure the plastic release liner is removed from all areas of Preprufe Tape and Preprufe CJ Tape. It is recommended that concrete be poured within 56 days (42 days in hot climates) of application of the tape. Following proper ACI guidelines, concrete must be placed carefully and consolidated properly to avoid damage to the membrane. Never use a sharp object to consolidate the concrete. Provide temporary protection from concrete over splash for areas of the tape that are adjacent to a concrete pour.

Dimensions (Nominal)	Preprufe Tape (HC or LT)	Preprufe CJ Tape (HC or LT)
Roll Size	4 in. x 49 ft. (100 mm x 15 m)	8 in. x 49 ft. (200 mm x 15 m)
Roll Weight	4.3 lbs (2 kg)	8.6 lbs (4 kg)

www.graceconstruction.com

For technical assistance call toll free at 866-333-3SBM (3726)

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