

US EPA ARCHIVE DOCUMENT



Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

January 13, 2014

Weaver Boos
35 E. Wacker Drive, Suite 1250
Chicago, IL 60602
Telephone: (312) 922-1030
Fax: (312) 922-0201

RE: 3682-300-07, Pet Coke and Coal Study

STAT Project No 13110843

Dear Paul Gruca:

STAT Analysis received 9 samples for the referenced project on 11/29/2013 3:20:00 PM. The analytical results are presented in the following report.

This report is revised to reflect changes made after the initial report was issued.

All analyses were performed in accordance with the requirements of 35 IAC part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,

Craig Chawla
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: Weaver Boos
Project: 3682-300-07, Pet Coke and Coal Study
Lab Order: 13110843

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
13110843-001A	Pet Coke-4		11/27/2013 1:15:00 PM	11/29/2013
13110843-002A	Pet Coke-5		11/27/2013 1:25:00 PM	11/29/2013
13110843-003A	Pet Coke-6		11/27/2013 1:30:00 PM	11/29/2013
13110843-004A	Coal-6		11/27/2013 12:40:00 PM	11/29/2013
13110843-005A	Coal-7		11/27/2013 12:45:00 PM	11/29/2013
13110843-006A	Coal-8		11/27/2013 12:50:00 PM	11/29/2013
13110843-007A	Coal-9		11/27/2013 12:55:00 PM	11/29/2013
13110843-008A	Coal-10		11/27/2013 1:05:00 PM	11/29/2013
13110843-009A	Coal-11		11/27/2013 1:10:00 PM	11/29/2013

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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: Pet Coke-4

Lab Order: 13110843

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/27/2013 1:15:00 PM

Lab ID: 13110843-001A

Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Mercury	SW7471A					Prep Date: 12/4/2013 Analyst: LB
Mercury	ND	0.018		mg/Kg	1	12/4/2013

Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/4/2013 Analyst: JG
Aluminum	ND	190		mg/Kg	100	12/4/2013
Antimony	ND	1.9		mg/Kg	10	12/5/2013
Arsenic	ND	0.95		mg/Kg	10	12/5/2013
Barium	2.6	0.95		mg/Kg	10	12/5/2013
Cadmium	ND	0.48		mg/Kg	10	12/5/2013
Calcium	ND	570		mg/Kg	100	12/4/2013
Chromium	ND	0.95		mg/Kg	10	12/5/2013
Cobalt	ND	0.95		mg/Kg	10	12/5/2013
Copper	ND	2.4		mg/Kg	10	12/5/2013
Iron	ND	290		mg/Kg	100	12/4/2013
Lead	ND	0.48		mg/Kg	10	12/5/2013
Manganese	2	0.95		mg/Kg	10	12/5/2013
Molybdenum	11	4.8		mg/Kg	10	12/5/2013
Nickel	58	0.95		mg/Kg	10	12/5/2013
Potassium	ND	29		mg/Kg	10	12/5/2013
Selenium	ND	0.95		mg/Kg	10	12/5/2013
Silver	ND	0.95		mg/Kg	10	12/5/2013
Thallium	ND	0.95		mg/Kg	10	12/5/2013
Tin	ND	4.8	*	mg/Kg	10	12/5/2013
Titanium	5.6	2.4	*	mg/Kg	10	12/5/2013
Vanadium	180	0.95		mg/Kg	10	12/5/2013
Zinc	ND	4.8		mg/Kg	10	12/5/2013

Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)					Prep Date: 12/3/2013 Analyst: DM
Acenaphthene	0.041	0.033		mg/Kg	1	12/4/2013
Acenaphthylene	ND	0.033		mg/Kg	1	12/4/2013
Anthracene	0.65	0.033		mg/Kg	1	12/4/2013
Benz(a)anthracene	1.1	0.033		mg/Kg	1	12/4/2013
Benzo(a)pyrene	2	0.033		mg/Kg	1	12/4/2013
Benzo(b)fluoranthene	0.53	0.033		mg/Kg	1	12/4/2013
Benzo(g,h,i)perylene	1.5	0.033		mg/Kg	1	12/4/2013
Benzo(k)fluoranthene	0.34	0.033		mg/Kg	1	12/4/2013
2-Chloronaphthalene	ND	0.17		mg/Kg	1	12/4/2013
Chrysene	1.5	0.033		mg/Kg	1	12/4/2013
Dibenz(a,h)anthracene	0.61	0.033		mg/Kg	1	12/4/2013
Fluoranthene	0.2	0.033		mg/Kg	1	12/4/2013

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: Pet Coke-4

Lab Order: 13110843

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/27/2013 1:15:00 PM

Lab ID: 13110843-001A

Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)			Prep Date: 12/3/2013		Analyst: DM
Fluorene	0.15	0.033		mg/Kg	1	12/4/2013
Indeno(1,2,3-cd)pyrene	0.47	0.033		mg/Kg	1	12/4/2013
1-Methylnaphthalene	ND	0.033	*	mg/Kg	1	12/4/2013
2-Methylnaphthalene	1.2	0.033		mg/Kg	1	12/4/2013
Naphthalene	0.5	0.033		mg/Kg	1	12/4/2013
Phenanthrene	0.99	0.033		mg/Kg	1	12/4/2013
Pyrene	0.95	0.033		mg/Kg	1	12/4/2013

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: Pet Coke-5

Lab Order: 13110843

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/27/2013 1:25:00 PM

Lab ID: 13110843-002A

Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Mercury	SW7471A					Prep Date: 12/4/2013 Analyst: LB
Mercury	ND	0.017		mg/Kg	1	12/4/2013

Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/4/2013 Analyst: JG
Aluminum	ND	180		mg/Kg	100	12/4/2013
Antimony	ND	1.8		mg/Kg	10	12/5/2013
Arsenic	ND	0.88		mg/Kg	10	12/5/2013
Barium	1.2	0.88		mg/Kg	10	12/5/2013
Cadmium	ND	0.44		mg/Kg	10	12/5/2013
Calcium	ND	530		mg/Kg	100	12/4/2013
Chromium	ND	0.88		mg/Kg	10	12/5/2013
Cobalt	ND	0.88		mg/Kg	10	12/5/2013
Copper	ND	2.2		mg/Kg	10	12/5/2013
Iron	ND	260		mg/Kg	100	12/4/2013
Lead	ND	0.44		mg/Kg	10	12/5/2013
Manganese	1.5	0.88		mg/Kg	10	12/5/2013
Molybdenum	ND	4.4		mg/Kg	10	12/5/2013
Nickel	33	0.88		mg/Kg	10	12/5/2013
Potassium	ND	26		mg/Kg	10	12/5/2013
Selenium	ND	0.88		mg/Kg	10	12/5/2013
Silver	ND	0.88		mg/Kg	10	12/5/2013
Thallium	ND	0.88		mg/Kg	10	12/5/2013
Tin	ND	4.4	*	mg/Kg	10	12/5/2013
Titanium	3.4	2.2	*	mg/Kg	10	12/5/2013
Vanadium	100	0.88		mg/Kg	10	12/5/2013
Zinc	ND	4.4		mg/Kg	10	12/5/2013

Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)					Prep Date: 12/3/2013 Analyst: DM
Acenaphthene	ND	0.33		mg/Kg	1	12/4/2013
Acenaphthylene	ND	0.33		mg/Kg	1	12/4/2013
Anthracene	0.82	0.33		mg/Kg	1	12/4/2013
Benz(a)anthracene	0.62	0.33		mg/Kg	1	12/4/2013
Benzo(a)pyrene	1.4	0.33		mg/Kg	1	12/4/2013
Benzo(b)fluoranthene	0.39	0.33		mg/Kg	1	12/4/2013
Benzo(g,h,i)perylene	1.5	0.33		mg/Kg	1	12/4/2013
Benzo(k)fluoranthene	ND	0.33		mg/Kg	1	12/4/2013
2-Chloronaphthalene	ND	1.7		mg/Kg	1	12/4/2013
Chrysene	0.86	0.33		mg/Kg	1	12/4/2013
Dibenz(a,h)anthracene	0.72	0.33		mg/Kg	1	12/4/2013
Fluoranthene	ND	0.33		mg/Kg	1	12/4/2013

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

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RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: Pet Coke-5

Lab Order: 13110843

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/27/2013 1:25:00 PM

Lab ID: 13110843-002A

Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)			Prep Date: 12/3/2013		Analyst: DM
Fluorene	ND	0.33		mg/Kg	1	12/4/2013
Indeno(1,2,3-cd)pyrene	0.42	0.33		mg/Kg	1	12/4/2013
1-Methylnaphthalene	ND	0.33	*	mg/Kg	1	12/4/2013
2-Methylnaphthalene	2.5	0.33		mg/Kg	1	12/4/2013
Naphthalene	0.58	0.33		mg/Kg	1	12/4/2013
Phenanthrene	0.83	0.33		mg/Kg	1	12/4/2013
Pyrene	0.61	0.33		mg/Kg	1	12/4/2013

Qualifiers:

ND - Not Detected at the Reporting Limit

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B - Analyte detected in the associated Method Blank

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R - RPD outside accepted recovery limits

E - Value above quantitation range

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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: Pet Coke-6

Lab Order: 13110843

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/27/2013 1:30:00 PM

Lab ID: 13110843-003A

Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Mercury	SW7471A					Prep Date: 12/4/2013 Analyst: LB
Mercury	ND	0.017		mg/Kg	1	12/4/2013

Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/4/2013 Analyst: JG
Aluminum	ND	200		mg/Kg	100	12/4/2013
Antimony	ND	2		mg/Kg	10	12/5/2013
Arsenic	ND	0.99		mg/Kg	10	12/5/2013
Barium	ND	0.99		mg/Kg	10	12/5/2013
Cadmium	ND	0.5		mg/Kg	10	12/5/2013
Calcium	ND	590		mg/Kg	100	12/4/2013
Chromium	ND	0.99		mg/Kg	10	12/5/2013
Cobalt	ND	0.99		mg/Kg	10	12/5/2013
Copper	ND	2.5		mg/Kg	10	12/5/2013
Iron	ND	300		mg/Kg	100	12/4/2013
Lead	ND	0.5		mg/Kg	10	12/5/2013
Manganese	1.3	0.99		mg/Kg	10	12/5/2013
Molybdenum	5.5	5		mg/Kg	10	12/5/2013
Nickel	37	0.99		mg/Kg	10	12/5/2013
Potassium	ND	30		mg/Kg	10	12/5/2013
Selenium	ND	0.99		mg/Kg	10	12/5/2013
Silver	ND	0.99		mg/Kg	10	12/5/2013
Thallium	ND	0.99		mg/Kg	10	12/5/2013
Tin	ND	5	*	mg/Kg	10	12/5/2013
Titanium	3.5	2.5	*	mg/Kg	10	12/5/2013
Vanadium	110	0.99		mg/Kg	10	12/5/2013
Zinc	ND	5		mg/Kg	10	12/5/2013

Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)					Prep Date: 12/3/2013 Analyst: DM
Acenaphthene	ND	0.33		mg/Kg	1	12/4/2013
Acenaphthylene	ND	0.33		mg/Kg	1	12/4/2013
Anthracene	0.39	0.33		mg/Kg	1	12/4/2013
Benz(a)anthracene	1.3	0.33		mg/Kg	1	12/4/2013
Benzo(a)pyrene	2.4	0.33		mg/Kg	1	12/4/2013
Benzo(b)fluoranthene	0.82	0.33		mg/Kg	1	12/4/2013
Benzo(g,h,i)perylene	2.2	0.33		mg/Kg	1	12/4/2013
Benzo(k)fluoranthene	0.65	0.33		mg/Kg	1	12/4/2013
2-Chloronaphthalene	ND	1.7		mg/Kg	1	12/4/2013
Chrysene	1.8	0.33		mg/Kg	1	12/4/2013
Dibenz(a,h)anthracene	0.81	0.33		mg/Kg	1	12/4/2013
Fluoranthene	0.66	0.33		mg/Kg	1	12/4/2013

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

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R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: Pet Coke-6

Lab Order: 13110843

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/27/2013 1:30:00 PM

Lab ID: 13110843-003A

Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)			Prep Date: 12/3/2013		Analyst: DM
Fluorene	ND	0.33		mg/Kg	1	12/4/2013
Indeno(1,2,3-cd)pyrene	0.67	0.33		mg/Kg	1	12/4/2013
1-Methylnaphthalene	ND	0.33	*	mg/Kg	1	12/4/2013
2-Methylnaphthalene	0.77	0.33		mg/Kg	1	12/4/2013
Naphthalene	0.37	0.33		mg/Kg	1	12/4/2013
Phenanthrene	0.86	0.33		mg/Kg	1	12/4/2013
Pyrene	1.3	0.33		mg/Kg	1	12/4/2013

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

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RL - Reporting / Quantitation Limit for the analysis

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R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: Coal-6

Lab Order: 13110843

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/27/2013 12:40:00 PM

Lab ID: 13110843-004A

Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Mercury	SW7471A					Prep Date: 12/4/2013 Analyst: LB
Mercury	ND	0.016		mg/Kg	1	12/4/2013

Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/4/2013 Analyst: JG
Aluminum	660	190		mg/Kg	100	12/4/2013
Antimony	ND	1.9		mg/Kg	10	12/5/2013
Arsenic	ND	0.94		mg/Kg	10	12/5/2013
Barium	46	0.94		mg/Kg	10	12/5/2013
Cadmium	ND	0.47		mg/Kg	10	12/5/2013
Calcium	4000	560		mg/Kg	100	12/4/2013
Chromium	2.6	0.94		mg/Kg	10	12/5/2013
Cobalt	ND	0.94		mg/Kg	10	12/5/2013
Copper	2.4	2.4		mg/Kg	10	12/5/2013
Iron	1700	280		mg/Kg	100	12/4/2013
Lead	2.2	0.47		mg/Kg	10	12/5/2013
Manganese	6.6	0.94		mg/Kg	10	12/5/2013
Molybdenum	ND	4.7		mg/Kg	10	12/5/2013
Nickel	2.6	0.94		mg/Kg	10	12/5/2013
Potassium	87	28		mg/Kg	10	12/5/2013
Selenium	ND	0.94		mg/Kg	10	12/5/2013
Silver	ND	0.94		mg/Kg	10	12/5/2013
Thallium	ND	0.94		mg/Kg	10	12/5/2013
Tin	ND	4.7	*	mg/Kg	10	12/5/2013
Titanium	100	2.4	*	mg/Kg	10	12/5/2013
Vanadium	5.6	0.94		mg/Kg	10	12/5/2013
Zinc	6.1	4.7		mg/Kg	10	12/5/2013

Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)					Prep Date: 12/3/2013 Analyst: DM
Acenaphthene	ND	0.033		mg/Kg	1	12/4/2013
Acenaphthylene	ND	0.033		mg/Kg	1	12/4/2013
Anthracene	0.12	0.033		mg/Kg	1	12/4/2013
Benz(a)anthracene	0.087	0.033		mg/Kg	1	12/4/2013
Benzo(a)pyrene	0.086	0.033		mg/Kg	1	12/4/2013
Benzo(b)fluoranthene	0.069	0.033		mg/Kg	1	12/4/2013
Benzo(g,h,i)perylene	0.093	0.033		mg/Kg	1	12/4/2013
Benzo(k)fluoranthene	ND	0.033		mg/Kg	1	12/4/2013
2-Chloronaphthalene	ND	0.17		mg/Kg	1	12/4/2013
Chrysene	0.13	0.033		mg/Kg	1	12/4/2013
Dibenz(a,h)anthracene	ND	0.033		mg/Kg	1	12/4/2013
Fluoranthene	0.098	0.033		mg/Kg	1	12/4/2013

Qualifiers:

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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: Coal-6

Lab Order: 13110843

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/27/2013 12:40:00 PM

Lab ID: 13110843-004A

Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 12/3/2013	Analyst: DM
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Fluorene	0.084	0.033		mg/Kg	1	12/4/2013
Indeno(1,2,3-cd)pyrene	ND	0.033		mg/Kg	1	12/4/2013
1-Methylnaphthalene	ND	0.033	*	mg/Kg	1	12/4/2013
2-Methylnaphthalene	1.4	0.033		mg/Kg	1	12/4/2013
Naphthalene	1.2	0.033		mg/Kg	1	12/4/2013
Phenanthrene	0.37	0.033		mg/Kg	1	12/4/2013
Pyrene	0.094	0.033		mg/Kg	1	12/4/2013

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client:	Weaver Boos	Client Sample ID:	Coal-7
Lab Order:	13110843	Tag Number:	
Project:	3682-300-07, Pet Coke and Coal Study	Collection Date:	11/27/2013 12:45:00 PM
Lab ID:	13110843-005A	Matrix:	Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					Prep Date: 12/4/2013 Analyst: LB
Mercury	ND	0.019		mg/Kg	1	12/4/2013
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/4/2013 Analyst: JG
Aluminum	530	200		mg/Kg	100	12/4/2013
Antimony	ND	2		mg/Kg	10	12/5/2013
Arsenic	ND	0.99		mg/Kg	10	12/5/2013
Barium	71	0.99		mg/Kg	10	12/5/2013
Cadmium	ND	0.49		mg/Kg	10	12/5/2013
Calcium	1400	590		mg/Kg	100	12/4/2013
Chromium	1.5	0.99		mg/Kg	10	12/5/2013
Cobalt	ND	0.99		mg/Kg	10	12/5/2013
Copper	3.8	2.5		mg/Kg	10	12/5/2013
Iron	1700	300		mg/Kg	100	12/4/2013
Lead	2.4	0.49		mg/Kg	10	12/5/2013
Manganese	3.5	0.99		mg/Kg	10	12/5/2013
Molybdenum	ND	4.9		mg/Kg	10	12/5/2013
Nickel	1.8	0.99		mg/Kg	10	12/5/2013
Potassium	44	30		mg/Kg	10	12/5/2013
Selenium	ND	0.99		mg/Kg	10	12/5/2013
Silver	ND	0.99		mg/Kg	10	12/5/2013
Thallium	ND	0.99		mg/Kg	10	12/5/2013
Tin	ND	4.9	*	mg/Kg	10	12/5/2013
Titanium	160	2.5	*	mg/Kg	10	12/5/2013
Vanadium	7.6	0.99		mg/Kg	10	12/5/2013
Zinc	5	4.9		mg/Kg	10	12/5/2013
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)					Prep Date: 12/3/2013 Analyst: DM
Acenaphthene	ND	0.33		mg/Kg	1	12/4/2013
Acenaphthylene	ND	0.33		mg/Kg	1	12/4/2013
Anthracene	ND	0.33		mg/Kg	1	12/4/2013
Benz(a)anthracene	ND	0.33		mg/Kg	1	12/4/2013
Benzo(a)pyrene	ND	0.33		mg/Kg	1	12/4/2013
Benzo(b)fluoranthene	ND	0.33		mg/Kg	1	12/4/2013
Benzo(g,h,i)perylene	ND	0.33		mg/Kg	1	12/4/2013
Benzo(k)fluoranthene	ND	0.33		mg/Kg	1	12/4/2013
2-Chloronaphthalene	ND	1.7		mg/Kg	1	12/4/2013
Chrysene	ND	0.33		mg/Kg	1	12/4/2013
Dibenz(a,h)anthracene	ND	0.33		mg/Kg	1	12/4/2013
Fluoranthene	ND	0.33		mg/Kg	1	12/4/2013

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

STAT Analysis Corporation

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: Coal-7

Lab Order: 13110843

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/27/2013 12:45:00 PM

Lab ID: 13110843-005A

Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)			Prep Date: 12/3/2013		Analyst: DM
Fluorene	ND	0.33		mg/Kg	1	12/4/2013
Indeno(1,2,3-cd)pyrene	ND	0.33		mg/Kg	1	12/4/2013
1-Methylnaphthalene	ND	0.33	*	mg/Kg	1	12/4/2013
2-Methylnaphthalene	1.4	0.33		mg/Kg	1	12/4/2013
Naphthalene	1	0.33		mg/Kg	1	12/4/2013
Phenanthrene	ND	0.33		mg/Kg	1	12/4/2013
Pyrene	ND	0.33		mg/Kg	1	12/4/2013

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client:	Weaver Boos	Client Sample ID:	Coal-8
Lab Order:	13110843	Tag Number:	
Project:	3682-300-07, Pet Coke and Coal Study	Collection Date:	11/27/2013 12:50:00 PM
Lab ID:	13110843-006A	Matrix:	Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					Prep Date: 12/4/2013 Analyst: LB
Mercury	ND	0.019		mg/Kg	1	12/4/2013
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/4/2013 Analyst: JG
Aluminum	770	160		mg/Kg	100	12/4/2013
Antimony	ND	1.6		mg/Kg	10	12/5/2013
Arsenic	ND	0.81		mg/Kg	10	12/5/2013
Barium	71	0.81		mg/Kg	10	12/5/2013
Cadmium	ND	0.41		mg/Kg	10	12/5/2013
Calcium	2400	490		mg/Kg	100	12/4/2013
Chromium	6.8	0.81		mg/Kg	10	12/5/2013
Cobalt	1.2	0.81		mg/Kg	10	12/5/2013
Copper	4.4	2		mg/Kg	10	12/5/2013
Iron	4300	240		mg/Kg	100	12/4/2013
Lead	1.9	0.41		mg/Kg	10	12/5/2013
Manganese	20	0.81		mg/Kg	10	12/5/2013
Molybdenum	ND	4.1		mg/Kg	10	12/5/2013
Nickel	8.4	0.81		mg/Kg	10	12/5/2013
Potassium	59	24		mg/Kg	10	12/5/2013
Selenium	1.1	0.81		mg/Kg	10	12/5/2013
Silver	ND	0.81		mg/Kg	10	12/5/2013
Thallium	ND	0.81		mg/Kg	10	12/5/2013
Tin	ND	4.1	*	mg/Kg	10	12/5/2013
Titanium	210	2	*	mg/Kg	10	12/5/2013
Vanadium	16	0.81		mg/Kg	10	12/5/2013
Zinc	7.4	4.1		mg/Kg	10	12/5/2013
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)					Prep Date: 12/3/2013 Analyst: DM
Acenaphthene	ND	0.33		mg/Kg	1	12/4/2013
Acenaphthylene	ND	0.33		mg/Kg	1	12/4/2013
Anthracene	ND	0.33		mg/Kg	1	12/4/2013
Benz(a)anthracene	ND	0.33		mg/Kg	1	12/4/2013
Benzo(a)pyrene	ND	0.33		mg/Kg	1	12/4/2013
Benzo(b)fluoranthene	ND	0.33		mg/Kg	1	12/4/2013
Benzo(g,h,i)perylene	ND	0.33		mg/Kg	1	12/4/2013
Benzo(k)fluoranthene	ND	0.33		mg/Kg	1	12/4/2013
2-Chloronaphthalene	ND	1.7		mg/Kg	1	12/4/2013
Chrysene	ND	0.33		mg/Kg	1	12/4/2013
Dibenz(a,h)anthracene	ND	0.33		mg/Kg	1	12/4/2013
Fluoranthene	ND	0.33		mg/Kg	1	12/4/2013

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: Coal-8

Lab Order: 13110843

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/27/2013 12:50:00 PM

Lab ID: 13110843-006A

Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)			Prep Date: 12/3/2013		Analyst: DM
Fluorene	ND	0.33		mg/Kg	1	12/4/2013
Indeno(1,2,3-cd)pyrene	ND	0.33		mg/Kg	1	12/4/2013
1-Methylnaphthalene	ND	0.33	*	mg/Kg	1	12/4/2013
2-Methylnaphthalene	7.5	0.33		mg/Kg	1	12/4/2013
Naphthalene	5.6	0.33		mg/Kg	1	12/4/2013
Phenanthrene	0.68	0.33		mg/Kg	1	12/4/2013
Pyrene	ND	0.33		mg/Kg	1	12/4/2013

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: Coal-9

Lab Order: 13110843

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/27/2013 12:55:00 PM

Lab ID: 13110843-007A

Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Mercury	SW7471A					Prep Date: 12/4/2013 Analyst: LB
Mercury	ND	0.019		mg/Kg	1	12/4/2013

Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/4/2013 Analyst: JG
Aluminum	850	170		mg/Kg	100	12/4/2013
Antimony	ND	1.7		mg/Kg	10	12/5/2013
Arsenic	1.8	0.87		mg/Kg	10	12/5/2013
Barium	54	0.87		mg/Kg	10	12/5/2013
Cadmium	ND	0.44		mg/Kg	10	12/5/2013
Calcium	2500	520		mg/Kg	100	12/4/2013
Chromium	2.3	0.87		mg/Kg	10	12/5/2013
Cobalt	ND	0.87		mg/Kg	10	12/5/2013
Copper	3.9	2.2		mg/Kg	10	12/5/2013
Iron	660	260		mg/Kg	100	12/4/2013
Lead	2.1	0.44		mg/Kg	10	12/5/2013
Manganese	28	0.87		mg/Kg	10	12/5/2013
Molybdenum	ND	4.4		mg/Kg	10	12/5/2013
Nickel	1.2	0.87		mg/Kg	10	12/5/2013
Potassium	32	26		mg/Kg	10	12/5/2013
Selenium	ND	0.87		mg/Kg	10	12/5/2013
Silver	ND	0.87		mg/Kg	10	12/5/2013
Thallium	ND	0.87		mg/Kg	10	12/5/2013
Tin	ND	4.4	*	mg/Kg	10	12/5/2013
Titanium	140	2.2	*	mg/Kg	10	12/5/2013
Vanadium	8.2	0.87		mg/Kg	10	12/5/2013
Zinc	ND	4.4		mg/Kg	10	12/5/2013

Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)					Prep Date: 12/3/2013 Analyst: DM
Acenaphthene	ND	0.033		mg/Kg	1	12/4/2013
Acenaphthylene	ND	0.033		mg/Kg	1	12/4/2013
Anthracene	ND	0.033		mg/Kg	1	12/4/2013
Benz(a)anthracene	ND	0.033		mg/Kg	1	12/4/2013
Benzo(a)pyrene	ND	0.033		mg/Kg	1	12/4/2013
Benzo(b)fluoranthene	ND	0.033		mg/Kg	1	12/4/2013
Benzo(g,h,i)perylene	ND	0.033		mg/Kg	1	12/4/2013
Benzo(k)fluoranthene	ND	0.033		mg/Kg	1	12/4/2013
2-Chloronaphthalene	ND	0.17		mg/Kg	1	12/4/2013
Chrysene	0.061	0.033		mg/Kg	1	12/4/2013
Dibenz(a,h)anthracene	ND	0.033		mg/Kg	1	12/4/2013
Fluoranthene	ND	0.033		mg/Kg	1	12/4/2013

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: Coal-9

Lab Order: 13110843

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/27/2013 12:55:00 PM

Lab ID: 13110843-007A

Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)			Prep Date: 12/3/2013		Analyst: DM
Fluorene	ND	0.033		mg/Kg	1	12/4/2013
Indeno(1,2,3-cd)pyrene	ND	0.033		mg/Kg	1	12/4/2013
1-Methylnaphthalene	ND	0.033	*	mg/Kg	1	12/4/2013
2-Methylnaphthalene	ND	0.033		mg/Kg	1	12/4/2013
Naphthalene	ND	0.033		mg/Kg	1	12/4/2013
Phenanthrene	ND	0.033		mg/Kg	1	12/4/2013
Pyrene	0.042	0.033		mg/Kg	1	12/4/2013

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: Coal-10

Lab Order: 13110843

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/27/2013 1:05:00 PM

Lab ID: 13110843-008A

Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Mercury	SW7471A					Prep Date: 12/4/2013 Analyst: LB
Mercury	ND	0.019		mg/Kg	1	12/4/2013

Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/4/2013 Analyst: JG
Aluminum	540	180		mg/Kg	100	12/4/2013
Antimony	ND	1.8		mg/Kg	10	12/5/2013
Arsenic	ND	0.9		mg/Kg	10	12/5/2013
Barium	140	0.9		mg/Kg	10	12/5/2013
Cadmium	ND	0.45		mg/Kg	10	12/5/2013
Calcium	980	540		mg/Kg	100	12/4/2013
Chromium	1.3	0.9		mg/Kg	10	12/5/2013
Cobalt	ND	0.9		mg/Kg	10	12/5/2013
Copper	2.9	2.3		mg/Kg	10	12/5/2013
Iron	1200	270		mg/Kg	100	12/4/2013
Lead	1.9	0.45		mg/Kg	10	12/5/2013
Manganese	2.5	0.9		mg/Kg	10	12/5/2013
Molybdenum	ND	4.5		mg/Kg	10	12/5/2013
Nickel	1	0.9		mg/Kg	10	12/5/2013
Potassium	ND	27		mg/Kg	10	12/5/2013
Selenium	ND	0.9		mg/Kg	10	12/5/2013
Silver	ND	0.9		mg/Kg	10	12/5/2013
Thallium	ND	0.9		mg/Kg	10	12/5/2013
Tin	ND	4.5	*	mg/Kg	10	12/5/2013
Titanium	140	2.3	*	mg/Kg	10	12/5/2013
Vanadium	3.8	0.9		mg/Kg	10	12/5/2013
Zinc	ND	4.5		mg/Kg	10	12/5/2013

Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)					Prep Date: 12/3/2013 Analyst: DM
Acenaphthene	ND	0.33		mg/Kg	1	12/4/2013
Acenaphthylene	ND	0.33		mg/Kg	1	12/4/2013
Anthracene	ND	0.33		mg/Kg	1	12/4/2013
Benz(a)anthracene	ND	0.33		mg/Kg	1	12/4/2013
Benzo(a)pyrene	ND	0.33		mg/Kg	1	12/4/2013
Benzo(b)fluoranthene	ND	0.33		mg/Kg	1	12/4/2013
Benzo(g,h,i)perylene	ND	0.33		mg/Kg	1	12/4/2013
Benzo(k)fluoranthene	ND	0.33		mg/Kg	1	12/4/2013
2-Chloronaphthalene	ND	1.7		mg/Kg	1	12/4/2013
Chrysene	ND	0.33		mg/Kg	1	12/4/2013
Dibenz(a,h)anthracene	ND	0.33		mg/Kg	1	12/4/2013
Fluoranthene	ND	0.33		mg/Kg	1	12/4/2013

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: Coal-10

Lab Order: 13110843

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/27/2013 1:05:00 PM

Lab ID: 13110843-008A

Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)			Prep Date: 12/3/2013		Analyst: DM
Fluorene	ND	0.33		mg/Kg	1	12/4/2013
Indeno(1,2,3-cd)pyrene	ND	0.33		mg/Kg	1	12/4/2013
1-Methylnaphthalene	ND	0.33	*	mg/Kg	1	12/4/2013
2-Methylnaphthalene	0.49	0.33		mg/Kg	1	12/4/2013
Naphthalene	ND	0.33		mg/Kg	1	12/4/2013
Phenanthrene	ND	0.33		mg/Kg	1	12/4/2013
Pyrene	ND	0.33		mg/Kg	1	12/4/2013

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: Coal-11

Lab Order: 13110843

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/27/2013 1:10:00 PM

Lab ID: 13110843-009A

Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Mercury	SW7471A					Prep Date: 12/4/2013 Analyst: LB
Mercury	ND	0.019		mg/Kg	1	12/4/2013

Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/4/2013 Analyst: JG
Aluminum	780	170		mg/Kg	100	12/4/2013
Antimony	ND	1.7		mg/Kg	10	12/5/2013
Arsenic	0.85	0.84		mg/Kg	10	12/5/2013
Barium	110	0.84		mg/Kg	10	12/5/2013
Cadmium	ND	0.42		mg/Kg	10	12/5/2013
Calcium	3100	500		mg/Kg	100	12/4/2013
Chromium	2.3	0.84		mg/Kg	10	12/5/2013
Cobalt	ND	0.84		mg/Kg	10	12/5/2013
Copper	4.1	2.1		mg/Kg	10	12/5/2013
Iron	1100	250		mg/Kg	100	12/4/2013
Lead	2.1	0.42		mg/Kg	10	12/5/2013
Manganese	24	0.84		mg/Kg	10	12/5/2013
Molybdenum	ND	4.2		mg/Kg	10	12/5/2013
Nickel	5.9	0.84		mg/Kg	10	12/5/2013
Potassium	42	25		mg/Kg	10	12/5/2013
Selenium	ND	0.84		mg/Kg	10	12/5/2013
Silver	ND	0.84		mg/Kg	10	12/5/2013
Thallium	ND	0.84		mg/Kg	10	12/5/2013
Tin	ND	4.2	*	mg/Kg	10	12/5/2013
Titanium	140	2.1	*	mg/Kg	10	12/5/2013
Vanadium	22	0.84		mg/Kg	10	12/5/2013
Zinc	4.6	4.2		mg/Kg	10	12/5/2013

Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)					Prep Date: 12/3/2013 Analyst: DM
Acenaphthene	0.059	0.033		mg/Kg	1	12/4/2013
Acenaphthylene	ND	0.033		mg/Kg	1	12/4/2013
Anthracene	0.15	0.033		mg/Kg	1	12/4/2013
Benz(a)anthracene	0.44	0.033		mg/Kg	1	12/4/2013
Benzo(a)pyrene	0.88	0.033		mg/Kg	1	12/4/2013
Benzo(b)fluoranthene	0.37	0.033		mg/Kg	1	12/4/2013
Benzo(g,h,i)perylene	1	0.033		mg/Kg	1	12/4/2013
Benzo(k)fluoranthene	0.16	0.033		mg/Kg	1	12/4/2013
2-Chloronaphthalene	ND	0.17		mg/Kg	1	12/4/2013
Chrysene	0.74	0.033		mg/Kg	1	12/4/2013
Dibenz(a,h)anthracene	0.34	0.033		mg/Kg	1	12/4/2013
Fluoranthene	0.24	0.033		mg/Kg	1	12/4/2013

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: Coal-11

Lab Order: 13110843

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/27/2013 1:10:00 PM

Lab ID: 13110843-009A

Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 12/3/2013	Analyst: DM
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Fluorene	0.067	0.033		mg/Kg	1	12/4/2013
Indeno(1,2,3-cd)pyrene	0.28	0.033		mg/Kg	1	12/4/2013
1-Methylnaphthalene	ND	0.033	*	mg/Kg	1	12/4/2013
2-Methylnaphthalene	0.83	0.033		mg/Kg	1	12/4/2013
Naphthalene	0.49	0.033		mg/Kg	1	12/4/2013
Phenanthrene	0.43	0.033		mg/Kg	1	12/4/2013
Pyrene	0.57	0.033		mg/Kg	1	12/4/2013

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

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E - Value above quantitation range

H - Holding time exceeded

CHAIN OF CUSTODY RECORD

N^o. 853249

Page : 1 of

Company: Weaver Boos Consultants							P.O. No.:		Turn Around 24 hr Results Needed am/pm											
Project Number: N/A							Client Tracking No.:												Quote No.:	
Project Name: Quinn Emanuel																				
Project Location: Chicago, IL																				
Sampler(s): S. Carter / P. Gruc																				
Report To: Amy Perdue Paul Gruc							Phone: 312-422-1030													
							Fax: 312-422-0201													
QC Level: 1 ☒ 2 ☐ 3 ☐ 4 ☐							e-mail: a.perdue@weaverboos.com													
Client Sample Number/Description:		Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers											Remarks	Lab No.:
Pet Core - 4		11/27	1315	Solid		X	A	1											Hold	001
Pet Core - 5			1325																	002
Pet Core - 6			1330																	003
Coal - 6			1240																	004
Coal - 7			1245																	005
Coal - 8			1250																	006
Coal - 9			1255																	007
Coal - 10			1305																	008
Coal - 11			1310																	009
Relinquished by: (Signature)		Date/Time: 11/29/13/1520		Comments: <i>see above</i>										Laboratory Work Order No.:						
Received by: (Signature)		Date/Time: 11/29/13/1520												Received on Ice: Yes ☒ No ☐						
Relinquished by: (Signature)		Date/Time:												Temperature: 28 °C						
Received by: (Signature)		Date/Time:																		
Relinquished by: (Signature)		Date/Time:		Preservation Code: A = None B = HNO ₃ C = NaOH																
Received by: (Signature)		Date/Time:		D = H ₂ SO ₄ E = HCl F = 5035/EnCore G = Other																

Sample Receipt Checklist

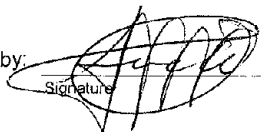
Client Name **WEAVER BOOS**

Date and Time Received: **11/29/2013 3:20:00 PM**

Work Order Number **13110843**

Received by: **CC**

Checklist completed by:



11/29/13

Date

Reviewed by:

EMV

12/2/13

Initials

Date

Matrix:

Carrier name Client Delivered

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels/containers?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☒	No ☐	Temperature 2.8 °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐
Water - Samples pH checked?	Yes ☐	No ☐	Checked by: _____
Water - Samples properly preserved?	Yes ☐	No ☐	pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted:

Date contacted:

Contacted by:

Response:

PROJECT NUMBER 3682-300-07 AND NAME 'PET COKE AND COAL STUDY' PER PAUL GRUCA E-MAIL 01/13/2014 0917-00