

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 13110746

Dear Paul Gruca:

STAT Analysis received 8 samples for the referenced project on 11/26/2013 10:45:00 AM. 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.

US EPA ARCHIVE DOCUMENT

Client: Weaver Boos
Project: 3682-300-07, Pet Coke and Coal Study
Lab Order: 13110746

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
13110746-001A	Pet Coke-1		11/26/2013 8:00:00 AM	11/26/2013
13110746-002A	Pet Coke-2		11/26/2013 8:05:00 AM	11/26/2013
13110746-003A	Pet Coke-3		11/26/2013 8:10:00 AM	11/26/2013
13110746-004A	Coal-1		11/26/2013 8:15:00 AM	11/26/2013
13110746-005A	Coal-2		11/26/2013 8:20:00 AM	11/26/2013
13110746-006A	Coal-3		11/26/2013 8:30:00 AM	11/26/2013
13110746-007A	Coal-4		11/26/2013 8:40:00 AM	11/26/2013
13110746-008A	Coal-5		11/26/2013 8:45:00 AM	11/26/2013

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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos	Client Sample ID: Pet Coke-1
Lab Order: 13110746	Tag Number:
Project: 3682-300-07, Pet Coke and Coal Study	Collection Date: 11/26/2013 8:00:00 AM
Lab ID: 13110746-001A	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	0.02		mg/Kg	1	12/4/2013

Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 12/4/2013	Analyst: JG
Aluminum	760	190		mg/Kg	100	12/4/2013
Antimony	ND	1.9		mg/Kg	10	12/4/2013
Arsenic	ND	0.96		mg/Kg	10	12/4/2013
Barium	280	0.96		mg/Kg	10	12/4/2013
Cadmium	ND	0.48		mg/Kg	10	12/4/2013
Calcium	2400	580		mg/Kg	100	12/4/2013
Chromium	1.4	0.96		mg/Kg	10	12/4/2013
Cobalt	ND	0.96		mg/Kg	10	12/4/2013
Copper	4.2	2.4		mg/Kg	10	12/4/2013
Iron	720	290		mg/Kg	100	12/4/2013
Lead	0.7	0.48		mg/Kg	10	12/4/2013
Manganese	10	0.96		mg/Kg	10	12/4/2013
Molybdenum	ND	4.8		mg/Kg	10	12/4/2013
Nickel	9.1	0.96		mg/Kg	10	12/4/2013
Potassium	31	29		mg/Kg	10	12/4/2013
Selenium	ND	0.96		mg/Kg	10	12/4/2013
Silver	ND	0.96		mg/Kg	10	12/4/2013
Thallium	ND	0.96		mg/Kg	10	12/4/2013
Tin	ND	4.8	*	mg/Kg	10	12/4/2013
Titanium	170	2.4	*	mg/Kg	10	12/4/2013
Vanadium	35	0.96		mg/Kg	10	12/4/2013
Zinc	5.3	4.8		mg/Kg	10	12/4/2013

Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 12/3/2013	Analyst: DM
Acenaphthene	ND	0.033		mg/Kg	1	12/5/2013
Acenaphthylene	ND	0.033		mg/Kg	1	12/5/2013
Anthracene	0.12	0.033		mg/Kg	1	12/5/2013
Benz(a)anthracene	0.78	0.033		mg/Kg	1	12/5/2013
Benzo(a)pyrene	1.8	0.033		mg/Kg	1	12/5/2013
Benzo(b)fluoranthene	0.61	0.033		mg/Kg	1	12/5/2013
Benzo(g,h,i)perylene	3.2	0.033		mg/Kg	1	12/5/2013
Benzo(k)fluoranthene	0.17	0.033		mg/Kg	1	12/5/2013
2-Chloronaphthalene	ND	0.17		mg/Kg	1	12/5/2013
Chrysene	1.3	0.033		mg/Kg	1	12/5/2013
Dibenz(a,h)anthracene	0.97	0.033		mg/Kg	1	12/5/2013
Fluoranthene	0.15	0.033		mg/Kg	1	12/5/2013

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

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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos	Client Sample ID: Pet Coke-1
Lab Order: 13110746	Tag Number:
Project: 3682-300-07, Pet Coke and Coal Study	Collection Date: 11/26/2013 8:00:00 AM
Lab ID: 13110746-001A	Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 12/3/2013		Analyst: DM	
Fluorene	0.042	0.033		mg/Kg	1	12/5/2013
Indeno(1,2,3-cd)pyrene	0.65	0.033		mg/Kg	1	12/5/2013
1-Methylnaphthalene	ND	0.033	*	mg/Kg	1	12/5/2013
2-Methylnaphthalene	0.31	0.033		mg/Kg	1	12/5/2013
Naphthalene	0.17	0.033		mg/Kg	1	12/5/2013
Phenanthrene	0.31	0.033		mg/Kg	1	12/5/2013
Pyrene	0.98	0.033		mg/Kg	1	12/5/2013

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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos	Client Sample ID: Pet Coke-2
Lab Order: 13110746	Tag Number:
Project: 3682-300-07, Pet Coke and Coal Study	Collection Date: 11/26/2013 8:05:00 AM
Lab ID: 13110746-002A	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	0.018		mg/Kg	1	12/4/2013

Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 12/4/2013	Analyst: JG
Aluminum	1300	180		mg/Kg	100	12/4/2013
Antimony	ND	1.8		mg/Kg	10	12/4/2013
Arsenic	ND	0.9		mg/Kg	10	12/4/2013
Barium	41	0.9		mg/Kg	10	12/4/2013
Cadmium	ND	0.45		mg/Kg	10	12/4/2013
Calcium	8500	540		mg/Kg	100	12/4/2013
Chromium	2.5	0.9		mg/Kg	10	12/4/2013
Cobalt	ND	0.9		mg/Kg	10	12/4/2013
Copper	2.9	2.2		mg/Kg	10	12/4/2013
Iron	1500	270		mg/Kg	100	12/4/2013
Lead	11	0.45		mg/Kg	10	12/4/2013
Manganese	200	0.9		mg/Kg	10	12/4/2013
Molybdenum	6.6	4.5		mg/Kg	10	12/4/2013
Nickel	27	0.9		mg/Kg	10	12/4/2013
Potassium	120	27		mg/Kg	10	12/4/2013
Selenium	ND	0.9		mg/Kg	10	12/4/2013
Silver	ND	0.9		mg/Kg	10	12/4/2013
Thallium	ND	0.9		mg/Kg	10	12/4/2013
Tin	ND	4.5	*	mg/Kg	10	12/4/2013
Titanium	58	2.2	*	mg/Kg	10	12/4/2013
Vanadium	120	0.9		mg/Kg	10	12/4/2013
Zinc	39	4.5		mg/Kg	10	12/4/2013

Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 12/3/2013	Analyst: DM
Acenaphthene	ND	0.33		mg/Kg	1	12/5/2013
Acenaphthylene	ND	0.33		mg/Kg	1	12/5/2013
Anthracene	1.4	0.33		mg/Kg	1	12/5/2013
Benz(a)anthracene	15	0.33		mg/Kg	1	12/5/2013
Benzo(a)pyrene	33	0.33		mg/Kg	1	12/5/2013
Benzo(b)fluoranthene	13	0.33		mg/Kg	1	12/5/2013
Benzo(g,h,i)perylene	50	1.6		mg/Kg	5	12/5/2013
Benzo(k)fluoranthene	4.5	0.33		mg/Kg	1	12/5/2013
2-Chloronaphthalene	ND	1.7		mg/Kg	1	12/5/2013
Chrysene	28	0.33		mg/Kg	1	12/5/2013
Dibenz(a,h)anthracene	16	0.33		mg/Kg	1	12/5/2013
Fluoranthene	2.1	0.33		mg/Kg	1	12/5/2013

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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos	Client Sample ID: Pet Coke-2
Lab Order: 13110746	Tag Number:
Project: 3682-300-07, Pet Coke and Coal Study	Collection Date: 11/26/2013 8:05:00 AM
Lab ID: 13110746-002A	Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 12/3/2013	Analyst: DM
Fluorene	0.4	0.33		mg/Kg	1	12/5/2013
Indeno(1,2,3-cd)pyrene	10	0.33		mg/Kg	1	12/5/2013
1-Methylnaphthalene	ND	0.33	*	mg/Kg	1	12/5/2013
2-Methylnaphthalene	3.1	0.33		mg/Kg	1	12/5/2013
Naphthalene	1.4	0.33		mg/Kg	1	12/5/2013
Phenanthrene	3.6	0.33		mg/Kg	1	12/5/2013
Pyrene	18	0.33		mg/Kg	1	12/5/2013

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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: Pet Coke-3

Lab Order: 13110746

Tag Number:

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

Collection Date: 11/26/2013 8:10:00 AM

Lab ID: 13110746-003A

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	180		mg/Kg	100	12/4/2013
Antimony	ND	1.8		mg/Kg	10	12/4/2013
Arsenic	ND	0.92		mg/Kg	10	12/4/2013
Barium	2.3	0.92		mg/Kg	10	12/4/2013
Cadmium	ND	0.46		mg/Kg	10	12/4/2013
Calcium	ND	550		mg/Kg	100	12/4/2013
Chromium	ND	0.92		mg/Kg	10	12/4/2013
Cobalt	ND	0.92		mg/Kg	10	12/4/2013
Copper	ND	2.3		mg/Kg	10	12/4/2013
Iron	ND	280		mg/Kg	100	12/4/2013
Lead	ND	0.46		mg/Kg	10	12/4/2013
Manganese	0.97	0.92		mg/Kg	10	12/4/2013
Molybdenum	5.7	4.6		mg/Kg	10	12/4/2013
Nickel	38	0.92		mg/Kg	10	12/4/2013
Potassium	ND	28		mg/Kg	10	12/4/2013
Selenium	ND	0.92		mg/Kg	10	12/4/2013
Silver	ND	0.92		mg/Kg	10	12/4/2013
Thallium	ND	0.92		mg/Kg	10	12/4/2013
Tin	ND	4.6	*	mg/Kg	10	12/4/2013
Titanium	2.4	2.3	*	mg/Kg	10	12/4/2013
Vanadium	120	0.92		mg/Kg	10	12/4/2013
Zinc	ND	4.6		mg/Kg	10	12/4/2013

Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 12/3/2013	Analyst: DM
Acenaphthene	ND	0.33		mg/Kg	1	12/5/2013
Acenaphthylene	ND	0.33		mg/Kg	1	12/5/2013
Anthracene	0.38	0.33		mg/Kg	1	12/5/2013
Benz(a)anthracene	1.1	0.33		mg/Kg	1	12/5/2013
Benzo(a)pyrene	2.5	0.33		mg/Kg	1	12/5/2013
Benzo(b)fluoranthene	1.4	0.33		mg/Kg	1	12/5/2013
Benzo(g,h,i)perylene	3.1	0.33		mg/Kg	1	12/5/2013
Benzo(k)fluoranthene	ND	0.33		mg/Kg	1	12/5/2013
2-Chloronaphthalene	ND	1.7		mg/Kg	1	12/5/2013
Chrysene	1.3	0.33		mg/Kg	1	12/5/2013
Dibenz(a,h)anthracene	2.5	0.33		mg/Kg	1	12/5/2013
Fluoranthene	ND	0.33		mg/Kg	1	12/5/2013

Qualifiers:
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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos	Client Sample ID: Pet Coke-3
Lab Order: 13110746	Tag Number:
Project: 3682-300-07, Pet Coke and Coal Study	Collection Date: 11/26/2013 8:10:00 AM
Lab ID: 13110746-003A	Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 12/3/2013	Analyst: DM
Fluorene	ND	0.33		mg/Kg	1	12/5/2013
Indeno(1,2,3-cd)pyrene	1.9	0.33		mg/Kg	1	12/5/2013
1-Methylnaphthalene	ND	0.33	*	mg/Kg	1	12/5/2013
2-Methylnaphthalene	1.3	0.33		mg/Kg	1	12/5/2013
Naphthalene	0.65	0.33		mg/Kg	1	12/5/2013
Phenanthrene	0.74	0.33		mg/Kg	1	12/5/2013
Pyrene	0.7	0.33		mg/Kg	1	12/5/2013

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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos	Client Sample ID: Coal-1
Lab Order: 13110746	Tag Number:
Project: 3682-300-07, Pet Coke and Coal Study	Collection Date: 11/26/2013 8:15:00 AM
Lab ID: 13110746-004A	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	0.02		mg/Kg	1	12/4/2013

Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 12/4/2013	Analyst: JG
Aluminum	1300	170		mg/Kg	100	12/4/2013
Antimony	ND	1.7		mg/Kg	10	12/4/2013
Arsenic	ND	0.85		mg/Kg	10	12/4/2013
Barium	440	0.85		mg/Kg	10	12/4/2013
Cadmium	ND	0.42		mg/Kg	10	12/4/2013
Calcium	4000	510		mg/Kg	100	12/4/2013
Chromium	1.5	0.85		mg/Kg	10	12/4/2013
Cobalt	ND	0.85		mg/Kg	10	12/4/2013
Copper	4.3	2.1		mg/Kg	10	12/4/2013
Iron	970	250		mg/Kg	100	12/4/2013
Lead	0.8	0.42		mg/Kg	10	12/4/2013
Manganese	6.5	0.85		mg/Kg	10	12/4/2013
Molybdenum	ND	4.2		mg/Kg	10	12/4/2013
Nickel	1.1	0.85		mg/Kg	10	12/4/2013
Potassium	36	25		mg/Kg	10	12/4/2013
Selenium	ND	0.85		mg/Kg	10	12/4/2013
Silver	ND	0.85		mg/Kg	10	12/4/2013
Thallium	ND	0.85		mg/Kg	10	12/4/2013
Tin	ND	4.2	*	mg/Kg	10	12/4/2013
Titanium	150	2.1	*	mg/Kg	10	12/4/2013
Vanadium	5.9	0.85		mg/Kg	10	12/4/2013
Zinc	5.9	4.2		mg/Kg	10	12/4/2013

Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 12/3/2013	Analyst: DM
Acenaphthene	ND	0.033		mg/Kg	1	12/5/2013
Acenaphthylene	ND	0.033		mg/Kg	1	12/5/2013
Anthracene	ND	0.033		mg/Kg	1	12/5/2013
Benz(a)anthracene	0.038	0.033		mg/Kg	1	12/5/2013
Benzo(a)pyrene	0.12	0.033		mg/Kg	1	12/5/2013
Benzo(b)fluoranthene	0.11	0.033		mg/Kg	1	12/5/2013
Benzo(g,h,i)perylene	ND	0.033		mg/Kg	1	12/5/2013
Benzo(k)fluoranthene	ND	0.033		mg/Kg	1	12/5/2013
2-Chloronaphthalene	ND	0.17		mg/Kg	1	12/5/2013
Chrysene	0.044	0.033		mg/Kg	1	12/5/2013
Dibenz(a,h)anthracene	ND	0.033		mg/Kg	1	12/5/2013
Fluoranthene	0.059	0.033		mg/Kg	1	12/5/2013

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: Coal-1

Lab Order: 13110746

Tag Number:

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

Collection Date: 11/26/2013 8:15:00 AM

Lab ID: 13110746-004A

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
Fluorene	ND 0.033	mg/Kg 1	12/5/2013
Indeno(1,2,3-cd)pyrene	ND 0.033	mg/Kg 1	12/5/2013
1-Methylnaphthalene	ND 0.033 *	mg/Kg 1	12/5/2013
2-Methylnaphthalene	ND 0.033	mg/Kg 1	12/5/2013
Naphthalene	ND 0.033	mg/Kg 1	12/5/2013
Phenanthrene	ND 0.033	mg/Kg 1	12/5/2013
Pyrene	0.051 0.033	mg/Kg 1	12/5/2013

US EPA ARCHIVE DOCUMENT

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

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-2
Lab Order: 13110746	Tag Number:
Project: 3682-300-07, Pet Coke and Coal Study	Collection Date: 11/26/2013 8:20:00 AM
Lab ID: 13110746-005A	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	250	190		mg/Kg	100	12/4/2013
Antimony	ND	1.9		mg/Kg	10	12/4/2013
Arsenic	2.6	0.95		mg/Kg	10	12/4/2013
Barium	7.1	0.95		mg/Kg	10	12/4/2013
Cadmium	ND	0.47		mg/Kg	10	12/4/2013
Calcium	ND	570		mg/Kg	100	12/4/2013
Chromium	4.8	0.95		mg/Kg	10	12/4/2013
Cobalt	ND	0.95		mg/Kg	10	12/4/2013
Copper	ND	2.4		mg/Kg	10	12/4/2013
Iron	4600	280		mg/Kg	100	12/4/2013
Lead	9.4	0.47		mg/Kg	10	12/4/2013
Manganese	4.5	0.95		mg/Kg	10	12/4/2013
Molybdenum	ND	4.7		mg/Kg	10	12/4/2013
Nickel	3.5	0.95		mg/Kg	10	12/4/2013
Potassium	100	28		mg/Kg	10	12/4/2013
Selenium	ND	0.95		mg/Kg	10	12/4/2013
Silver	ND	0.95		mg/Kg	10	12/4/2013
Thallium	ND	0.95		mg/Kg	10	12/4/2013
Tin	ND	4.7	*	mg/Kg	10	12/4/2013
Titanium	170	2.4	*	mg/Kg	10	12/4/2013
Vanadium	11	0.95		mg/Kg	10	12/4/2013
Zinc	9.4	4.7		mg/Kg	10	12/4/2013

Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 12/3/2013	Analyst: DM
Acenaphthene	ND	0.033		mg/Kg	1	12/5/2013
Acenaphthylene	ND	0.033		mg/Kg	1	12/5/2013
Anthracene	0.082	0.033		mg/Kg	1	12/5/2013
Benz(a)anthracene	0.17	0.033		mg/Kg	1	12/5/2013
Benzo(a)pyrene	0.25	0.033		mg/Kg	1	12/5/2013
Benzo(b)fluoranthene	0.18	0.033		mg/Kg	1	12/5/2013
Benzo(g,h,i)perylene	0.26	0.033		mg/Kg	1	12/5/2013
Benzo(k)fluoranthene	0.059	0.033		mg/Kg	1	12/5/2013
2-Chloronaphthalene	ND	0.17		mg/Kg	1	12/5/2013
Chrysene	0.22	0.033		mg/Kg	1	12/5/2013
Dibenz(a,h)anthracene	0.18	0.033		mg/Kg	1	12/5/2013
Fluoranthene	0.18	0.033		mg/Kg	1	12/5/2013

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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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-2
Lab Order: 13110746	Tag Number:
Project: 3682-300-07, Pet Coke and Coal Study	Collection Date: 11/26/2013 8:20:00 AM
Lab ID: 13110746-005A	Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 12/3/2013		Analyst: DM	
Fluorene	0.05	0.033		mg/Kg	1	12/5/2013
Indeno(1,2,3-cd)pyrene	0.15	0.033		mg/Kg	1	12/5/2013
1-Methylnaphthalene	ND	0.033	*	mg/Kg	1	12/5/2013
2-Methylnaphthalene	0.78	0.033		mg/Kg	1	12/5/2013
Naphthalene	0.43	0.033		mg/Kg	1	12/5/2013
Phenanthrene	0.94	0.033		mg/Kg	1	12/5/2013
Pyrene	0.22	0.033		mg/Kg	1	12/5/2013

US EPA ARCHIVE DOCUMENT

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
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	* - Non-accredited parameter	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-3
Lab Order: 13110746	Tag Number:
Project: 3682-300-07, Pet Coke and Coal Study	Collection Date: 11/26/2013 8:30:00 AM
Lab ID: 13110746-006A	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	1700	190		mg/Kg	100	12/4/2013
Antimony	ND	1.9		mg/Kg	10	12/4/2013
Arsenic	ND	0.93		mg/Kg	10	12/4/2013
Barium	270	0.93		mg/Kg	10	12/4/2013
Cadmium	ND	0.46		mg/Kg	10	12/4/2013
Calcium	7500	560		mg/Kg	100	12/4/2013
Chromium	2.6	0.93		mg/Kg	10	12/4/2013
Cobalt	ND	0.93		mg/Kg	10	12/4/2013
Copper	6.3	2.3		mg/Kg	10	12/4/2013
Iron	1700	280		mg/Kg	100	12/4/2013
Lead	1.8	0.46		mg/Kg	10	12/4/2013
Manganese	9.9	0.93		mg/Kg	10	12/4/2013
Molybdenum	ND	4.6		mg/Kg	10	12/4/2013
Nickel	2.2	0.93		mg/Kg	10	12/4/2013
Potassium	54	28		mg/Kg	10	12/4/2013
Selenium	ND	0.93		mg/Kg	10	12/4/2013
Silver	ND	0.93		mg/Kg	10	12/4/2013
Thallium	ND	0.93		mg/Kg	10	12/4/2013
Tin	ND	4.6	*	mg/Kg	10	12/4/2013
Titanium	190	2.3	*	mg/Kg	10	12/4/2013
Vanadium	9.3	0.93		mg/Kg	10	12/4/2013
Zinc	15	4.6		mg/Kg	10	12/4/2013

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	0.052	0.033		mg/Kg	1	12/4/2013
Benzo(a)pyrene	0.12	0.033		mg/Kg	1	12/4/2013
Benzo(b)fluoranthene	0.063	0.033		mg/Kg	1	12/4/2013
Benzo(g,h,i)perylene	0.13	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	0.085	0.033		mg/Kg	1	12/4/2013
Dibenz(a,h)anthracene	0.035	0.033		mg/Kg	1	12/4/2013
Fluoranthene	0.1	0.033		mg/Kg	1	12/4/2013

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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	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

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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-3
Lab Order: 13110746	Tag Number:
Project: 3682-300-07, Pet Coke and Coal Study	Collection Date: 11/26/2013 8:30:00 AM
Lab ID: 13110746-006A	Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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	0.039	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	0.085	0.033		mg/Kg	1	12/4/2013
Pyrene	0.11	0.033		mg/Kg	1	12/4/2013

US EPA ARCHIVE DOCUMENT

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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	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
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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-4
Lab Order: 13110746	Tag Number:
Project: 3682-300-07, Pet Coke and Coal Study	Collection Date: 11/26/2013 8:40:00 AM
Lab ID: 13110746-007A	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	490	190		mg/Kg	100	12/4/2013
Antimony	ND	1.9		mg/Kg	10	12/4/2013
Arsenic	ND	0.94		mg/Kg	10	12/4/2013
Barium	82	0.94		mg/Kg	10	12/4/2013
Cadmium	ND	0.47		mg/Kg	10	12/4/2013
Calcium	880	570		mg/Kg	100	12/4/2013
Chromium	0.98	0.94		mg/Kg	10	12/4/2013
Cobalt	ND	0.94		mg/Kg	10	12/4/2013
Copper	2.8	2.4		mg/Kg	10	12/4/2013
Iron	1200	280		mg/Kg	100	12/4/2013
Lead	2.5	0.47		mg/Kg	10	12/4/2013
Manganese	3.1	0.94		mg/Kg	10	12/4/2013
Molybdenum	ND	4.7		mg/Kg	10	12/4/2013
Nickel	ND	0.94		mg/Kg	10	12/4/2013
Potassium	50	28		mg/Kg	10	12/4/2013
Selenium	ND	0.94		mg/Kg	10	12/4/2013
Silver	ND	0.94		mg/Kg	10	12/4/2013
Thallium	ND	0.94		mg/Kg	10	12/4/2013
Tin	ND	4.7	*	mg/Kg	10	12/4/2013
Titanium	150	2.4	*	mg/Kg	10	12/4/2013
Vanadium	4.4	0.94		mg/Kg	10	12/4/2013
Zinc	ND	4.7		mg/Kg	10	12/4/2013

Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 12/3/2013	Analyst: DM
Acenaphthene	0.06	0.033		mg/Kg	1	12/4/2013
Acenaphthylene	ND	0.033		mg/Kg	1	12/4/2013
Anthracene	0.089	0.033		mg/Kg	1	12/4/2013
Benz(a)anthracene	0.038	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	0.064	0.033		mg/Kg	1	12/4/2013
Dibenz(a,h)anthracene	ND	0.033		mg/Kg	1	12/4/2013
Fluoranthene	0.05	0.033		mg/Kg	1	12/4/2013

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
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	* - Non-accredited parameter	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-4
Lab Order: 13110746	Tag Number:
Project: 3682-300-07, Pet Coke and Coal Study	Collection Date: 11/26/2013 8:40:00 AM
Lab ID: 13110746-007A	Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 12/3/2013		Analyst: DM	
Fluorene	0.063	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	0.91	0.033		mg/Kg	1	12/4/2013
Naphthalene	0.55	0.033		mg/Kg	1	12/4/2013
Phenanthrene	0.19	0.033		mg/Kg	1	12/4/2013
Pyrene	0.055	0.033		mg/Kg	1	12/4/2013

US EPA ARCHIVE DOCUMENT

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

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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-5

Lab Order: 13110746

Tag Number:

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

Collection Date: 11/26/2013 8:45:00 AM

Lab ID: 13110746-008A

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	1500	180		mg/Kg	100	12/4/2013
Antimony	ND	1.8		mg/Kg	10	12/5/2013
Arsenic	ND	0.92		mg/Kg	10	12/4/2013
Barium	280	0.92		mg/Kg	10	12/5/2013
Cadmium	ND	0.46		mg/Kg	10	12/5/2013
Calcium	6900	55		mg/Kg	10	12/4/2013
Chromium	1.8	0.92		mg/Kg	10	12/4/2013
Cobalt	ND	0.92		mg/Kg	10	12/4/2013
Copper	5	2.3		mg/Kg	10	12/4/2013
Iron	1600	280		mg/Kg	100	12/4/2013
Lead	1.3	0.46		mg/Kg	10	12/4/2013
Manganese	8.5	0.92		mg/Kg	10	12/4/2013
Molybdenum	ND	4.6		mg/Kg	10	12/5/2013
Nickel	1.7	0.92		mg/Kg	10	12/4/2013
Potassium	52	28		mg/Kg	10	12/4/2013
Selenium	ND	0.92		mg/Kg	10	12/5/2013
Silver	ND	0.92		mg/Kg	10	12/5/2013
Thallium	ND	0.92		mg/Kg	10	12/4/2013
Tin	ND	4.6	*	mg/Kg	10	12/5/2013
Titanium	140	2.3	*	mg/Kg	10	12/5/2013
Vanadium	6.1	0.92		mg/Kg	10	12/5/2013
Zinc	ND	4.6		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	0.037	0.033		mg/Kg	1	12/4/2013
Benz(a)anthracene	0.036	0.033		mg/Kg	1	12/4/2013
Benzo(a)pyrene	0.084	0.033		mg/Kg	1	12/4/2013
Benzo(b)fluoranthene	0.054	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	0.039	0.033		mg/Kg	1	12/4/2013
2-Chloronaphthalene	ND	0.17		mg/Kg	1	12/4/2013
Chrysene	0.04	0.033		mg/Kg	1	12/4/2013
Dibenz(a,h)anthracene	ND	0.033		mg/Kg	1	12/4/2013
Fluoranthene	0.14	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: Coal-5
Lab Order: 13110746	Tag Number:
Project: 3682-300-07, Pet Coke and Coal Study	Collection Date: 11/26/2013 8:45:00 AM
Lab ID: 13110746-008A	Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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	0.066	0.033		mg/Kg	1	12/4/2013
Pyrene	0.1	0.033		mg/Kg	1	12/4/2013

US EPA ARCHIVE DOCUMENT

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

CHAIN OF CUSTODY RECORD

No: 853229

Page: 1 of 1

Company: WEAVER BOOS							P.O. No.:			
Project Number: N/A				Client Tracking No.:			<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> Turn Around: HOLD </div> Results Needed: / / am/pm			
Project Name: DUST SAMPLING									Quote No.:	
Project Location: CHICAGO, IL										
Sampler(s): P. GRUCA										
Report To: pggruca@weaverboos.com				Phone:						
aperdine@weaverboos.com				Fax:						
QC Level: 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/>		e-mail:								

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	Remarks	Lab No.:
PET COKE-1	11-26-13	0800	SOLID		X	N	1	HOLD	001
PET COKE-2		0805							002
PET COKE-3		0810							003
COAL-1		0815							004
COAL-2		0820							005
COAL-3		0830							006
COAL-4		0840							007
COAL-5	11-26-13	0845	SOLID		X	N	1	HOLD	

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Relinquished by: (Signature)	Date/Time: 11/26/13 1040	Comments:	Laboratory Work Order No.:
Received by: (Signature)	Date/Time: 11/26/13 1045		
Relinquished by: (Signature)	Date/Time:	Preservation Code: A - None B - HNO ₃ C - NaOH D - H ₂ SO ₄ E - HCl F = 5035/EnCore G = Other	Received on Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received by: (Signature)	Date/Time:		Temperature: 17 °C
Relinquished by: (Signature)	Date/Time:		
Received by: (Signature)	Date/Time:		


Sample Receipt Checklist

Client Name **WEAVER BOOS**


Date and Time Received: **11/26/2013 10:45:00 AM**

Work Order Number **13110746**

Received by: **DJ**

Checklist completed by: 

Date **11/26/13**

Reviewed by: 

Date **11/26/13**

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 **1.7 °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: Sample Coal-5 was not listed on COC but was received. Sample container indicates sample was collected at 11/26/13 at 8:45am. Sample was labelled as Coal-5.

Client / Person contacted: Paul Griva Date contacted: 11/26/13 Contacted by: Emma/Emilia

Response: CUSTOMER COLLECTED COC.

ADD PROJECT NUMBER 3682-300-07 AND NAME 'PET COKE AND COAL STUDY'
PER PAUL GRIVA EMAIL 0113204517@a

US EPA ARCHIVE DOCUMENT