Attachment 16

River Sediment Analysis Report

CERTIFICATE OF ANALYSIS

PROJECT NARRATIVE

Sam Whitin
EA Engineering, Science, and Technology
2350 Post Road
Warwick, RI 02886

RE: Blackstone
ESS Laboratory Work Order Number: 0710550

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this Project Narrative, the entire report has been paginated. The ESS Laboratory Certifications sheet is the final report page. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been mailed. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

Date: November 08, 2007

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration may be used instead of automated integration because it produces more accurate results. All ICP Metals were analyzed using the established linear dynamic range to determine acceptable analytical results.

ESS Laboratory certifies that the test results meet the requirements of NELAC, except where noted within this project narrative.

Sample Receipt
The following sample(s) were received on October 31, 2007 for the analyses specified on the enclosed Chain of Custody Record.

Laboratory ID	Matrix	Client SampleID
0710550-01	Soil	Black Main Up
0710550-02	Soil	Black Slater Up
0710550-03	Soil	Black Valley Up

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone

ESS Laboratory Work Order: 0710550

PROJECT NARRATIVE

8270C Semi-Volatile Organic Compounds

0710550-02	**Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present).**
BK70124-BS1	**Blank Spike recovery is below lower control limit.**
	N-Nitrosodimethylamine, Pyridine
BK70124-BSD1	**Blank Spike recovery is below lower control limit.**
	N-Nitrosodimethylamine, Pyridine
BQK0023-CCV1	**Continuing Calibration recovery is above upper control limit.**
	Benzoic Acid
BQK0023-CCV1	**Continuing Calibration recovery is below lower control limit.**
	N-Nitrosodimethylamine, Pyridine

No other observations noted.

End of Project Narrative.

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone
Client Sample ID: Black Main Up
Date Sampled: 10/31/07 09:15
Percent Solids: 75

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-01
Sample Matrix: Soil

TCLP Date: 10/31/07

1311/6000/7000 TCLP Metals

Analyte	Results	Units	MRL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V
Arsenic	ND	mg/L	0.05	1311/6010B	5	1	SVD	11/01/07	50	50
Cadmium	**0.011**	mg/L	0.005	1311/6010B	1	1	SVD	11/01/07	50	50
Chromium	ND	mg/L	0.02	1311/6010B	5	1	SVD	11/01/07	50	50
Copper	**0.051**	mg/L	0.020	1311/6010B		1	SVD	11/01/07	50	50
Lead	**0.06**	mg/L	0.02	1311/6010B	5	1	SVD	11/01/07	50	50
Mercury	ND	mg/L	0.0005	1311/7470A	0.2	1	JP	11/03/07	20	40
Nickel	ND	mg/L	0.05	1311/6010B		1	SVD	11/01/07	50	50
Zinc	**0.717**	mg/L	0.050	1311/6010B		1	SVD	11/01/07	50	50

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone
Client Sample ID: Black Main Up
Date Sampled: 10/31/07 09:15
Percent Solids: 75

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-01
Sample Matrix: Soil

3050B/6000/7000 Total Metals

RI - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
Arsenic	ND	mg/kg dry	2.9	6010B	7	1	SVD	10/31/07	2.3	100
Cadmium	ND	mg/kg dry	0.58	6010B	39	1	SVD	10/31/07	2.3	100
Chromium	**9.0**	mg/kg dry	1.2	6010B	1400	1	SVD	10/31/07	2.3	100
Copper	**19.5**	mg/kg dry	1.2	6010B	3100	1	SVD	10/31/07	2.3	100
Lead	**39.8**	mg/kg dry	5.8	6010B	150	1	SVD	10/31/07	2.3	100
Mercury	**0.043**	mg/kg dry	0.027	7471A	23	1	JP	11/02/07	0.97	40
Nickel	**5.8**	mg/kg dry	2.9	6010B	1000	1	SVD	10/31/07	2.3	100
Zinc	**56.7**	mg/kg dry	2.9	6010B	6000	1	SVD	10/31/07	2.3	100

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone
Client Sample ID: Black Main Up
Date Sampled: 10/31/07 09:15
Percent Solids: 75
Initial Volume: 20.7
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-01
Sample Matrix: Soil
Analyst: SEP
Prepared: 11/01/07

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	RI - RES DEC Limit	DF	Analyzed
Aroclor 1016	ND	mg/kg dry	0.0644	10	1	11/02/07
Aroclor 1221	ND	mg/kg dry	0.0644	10	1	11/02/07
Aroclor 1232	ND	mg/kg dry	0.0644	10	1	11/02/07
Aroclor 1242	ND	mg/kg dry	0.0644	10	1	11/02/07
Aroclor 1248	ND	mg/kg dry	0.0644	10	1	11/02/07
Aroclor 1254	ND	mg/kg dry	0.0644	10	1	11/02/07
Aroclor 1260	**0.134**	mg/kg dry	0.0644	10	1	11/02/07
Aroclor 1262	ND	mg/kg dry	0.0644	10	1	11/02/07
Aroclor 1268	ND	mg/kg dry	0.0644	10	1	11/02/07

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*96 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*111 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*96 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*114 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone
Client Sample ID: Black Main Up
Date Sampled: 10/31/07 09:15
Percent Solids: 75
Initial Volume: 19.5
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-01
Sample Matrix: Soil
Analyst: SEP
Prepared: 11/01/07

8100M Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	RI - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	ND	mg/kg dry	51.3	500	1	11/02/07

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*75 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone
Client Sample ID: Black Main Up
Date Sampled: 10/31/07 09:15
Percent Solids: 75
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-01
Sample Matrix: Soil
Analyst: VSC
Prepared: 11/01/07

8270C Semi-Volatile Organic Compounds

Analyte	Results	Units	MRL	RI - RES DEC Limit	DF	Analyzed
1,1-Biphenyl	ND	mg/kg dry	0.435	0.8	1	11/02/07
1,2,4-Trichlorobenzene	ND	mg/kg dry	0.435	96	1	11/02/07
1,2-Dichlorobenzene	ND	mg/kg dry	0.435	510	1	11/02/07
1,3-Dichlorobenzene	ND	mg/kg dry	0.435	430	1	11/02/07
1,4-Dichlorobenzene	ND	mg/kg dry	0.435	27	1	11/02/07
2,3,4,6-Tetrachlorophenol	ND	mg/kg dry	2.18		1	11/02/07
2,4,5-Trichlorophenol	ND	mg/kg dry	0.435	330	1	11/02/07
2,4,6-Trichlorophenol	ND	mg/kg dry	0.435	58	1	11/02/07
2,4-Dichlorophenol	ND	mg/kg dry	0.435	30	1	11/02/07
2,4-Dimethylphenol	ND	mg/kg dry	0.435	1400	1	11/02/07
2,4-Dinitrophenol	ND	mg/kg dry	2.18	160	1	11/02/07
2,4-Dinitrotoluene	ND	mg/kg dry	0.435	0.9	1	11/02/07
2,6-Dinitrotoluene	ND	mg/kg dry	0.435		1	11/02/07
2-Chloronaphthalene	ND	mg/kg dry	0.435		1	11/02/07
2-Chlorophenol	ND	mg/kg dry	0.435	50	1	11/02/07
2-Methylnaphthalene	ND	mg/kg dry	0.435	123	1	11/02/07
2-Methylphenol	ND	mg/kg dry	0.435		1	11/02/07
2-Nitroaniline	ND	mg/kg dry	0.435		1	11/02/07
2-Nitrophenol	ND	mg/kg dry	0.435		1	11/02/07
3,3'-Dichlorobenzidine	ND	mg/kg dry	0.872	1.4	1	11/02/07
3+4-Methylphenol	ND	mg/kg dry	0.872		1	11/02/07
3-Nitroaniline	ND	mg/kg dry	0.435		1	11/02/07
4,6-Dinitro-2-Methylphenol	ND	mg/kg dry	2.18		1	11/02/07
4-Bromophenyl-phenylether	ND	mg/kg dry	0.435		1	11/02/07
4-Chloro-3-Methylphenol	ND	mg/kg dry	0.435		1	11/02/07
4-Chloroaniline	ND	mg/kg dry	0.872	310	1	11/02/07
4-Chloro-phenyl-phenyl ether	ND	mg/kg dry	0.435		1	11/02/07
4-Nitroaniline	ND	mg/kg dry	0.435		1	11/02/07
4-Nitrophenol	ND	mg/kg dry	2.18		1	11/02/07
Acenaphthene	ND	mg/kg dry	0.435	43	1	11/02/07
Acenaphthylene	ND	mg/kg dry	0.435	23	1	11/02/07
Acetophenone	ND	mg/kg dry	0.872		1	11/02/07
Aniline	ND	mg/kg dry	2.18		1	11/02/07
Anthracene	ND	mg/kg dry	0.435	35	1	11/02/07
Azobenzene	ND	mg/kg dry	0.435		1	11/02/07

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Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-01
Sample Matrix: Soil
Analyst: VSC
Prepared: 11/01/07

8270C Semi-Volatile Organic Compounds

Benzo(a)anthracene	**0.538**	mg/kg dry	0.435	0.9	1	11/02/07
Benzo(a)pyrene	**0.516**	mg/kg dry	0.218	0.4	1	11/02/07
Benzo(b)fluoranthene	**0.587**	mg/kg dry	0.435	0.9	1	11/02/07
Benzo(g,h,i)perylene	ND	mg/kg dry	0.435	0.8	1	11/02/07
Benzo(k)fluoranthene	ND	mg/kg dry	0.435	0.9	1	11/02/07
Benzoic Acid	ND	mg/kg dry	2.18		1	11/02/07
Benzyl Alcohol	ND	mg/kg dry	0.435		1	11/02/07
bis(2-Chloroethoxy)methane	ND	mg/kg dry	0.435		1	11/02/07
bis(2-Chloroethyl)ether	ND	mg/kg dry	0.435	0.6	1	11/02/07
bis(2-chloroisopropyl)Ether	ND	mg/kg dry	0.435	9.1	1	11/02/07
bis(2-Ethylhexyl)phthalate	ND	mg/kg dry	0.435	46	1	11/02/07
Butylbenzylphthalate	ND	mg/kg dry	0.435		1	11/02/07
Carbazole	ND	mg/kg dry	0.435		1	11/02/07
Chrysene	**0.601**	mg/kg dry	0.218	0.4	1	11/02/07
Dibenzo(a,h)Anthracene	ND	mg/kg dry	0.218	0.4	1	11/02/07
Dibenzofuran	ND	mg/kg dry	0.435		1	11/02/07
Diethylphthalate	ND	mg/kg dry	0.435	340	1	11/02/07
Dimethylphthalate	ND	mg/kg dry	0.435	1900	1	11/02/07
Di-n-butylphthalate	ND	mg/kg dry	0.435		1	11/02/07
Di-n-octylphthalate	ND	mg/kg dry	0.435		1	11/02/07
Fluoranthene	**1.22**	mg/kg dry	0.435	20	1	11/02/07
Fluorene	ND	mg/kg dry	0.435	28	1	11/02/07
Hexachlorobenzene	ND	mg/kg dry	0.218	0.4	1	11/02/07
Hexachlorobutadiene	ND	mg/kg dry	0.435	8.2	1	11/02/07
Hexachlorocyclopentadiene	ND	mg/kg dry	2.18		1	11/02/07
Hexachloroethane	ND	mg/kg dry	0.435	46	1	11/02/07
Indeno(1,2,3-cd)Pyrene	ND	mg/kg dry	0.435	0.9	1	11/02/07
Isophorone	ND	mg/kg dry	0.435		1	11/02/07
Naphthalene	ND	mg/kg dry	0.435	54	1	11/02/07
Nitrobenzene	ND	mg/kg dry	0.435		1	11/02/07
N-Nitrosodimethylamine	ND	mg/kg dry	0.435		1	11/02/07
N-Nitroso-Di-n-Propylamine	ND	mg/kg dry	0.435		1	11/02/07
N-nitrosodiphenylamine	ND	mg/kg dry	0.435		1	11/02/07
Pentachlorophenol	ND	mg/kg dry	2.18	5.3	1	11/02/07
Phenanthrene	**1.04**	mg/kg dry	0.435	40	1	11/02/07
Phenol	ND	mg/kg dry	0.435	6000	1	11/02/07

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
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Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-01
Sample Matrix: Soil
Analyst: VSC
Prepared: 11/01/07

8270C Semi-Volatile Organic Compounds

Pyrene	**1.04**	mg/kg dry	0.435	13	1	11/02/07
Pyridine	ND	mg/kg dry	2.18		1	11/02/07

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*68 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*91 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*65 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*73 %*		*30-130*
Surrogate: 2-Fluorophenol	*60 %*		*30-130*
Surrogate: Nitrobenzene-d5	*63 %*		*30-130*
Surrogate: Phenol-d6	*66 %*		*30-130*
Surrogate: p-Terphenyl-d14	*92 %*		*30-130*

CERTIFICATE OF ANALYSIS

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Client Project ID: Blackstone
Client Sample ID: Black Main Up
Date Sampled: 10/31/07 09:15

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-01
Sample Matrix: Soil

Classical Chemistry

Analyte	Results	Units	MRL	Method	RI - RES DEC Limit	DF	Analyst	Analyzed
Grain Size	See Attached							
Hydrometer	See Attached							

THIELSCH ENGINEERING
Construction Testing Services
195 Francis Avenue, Cranston, RI 02910
Tel. (401) 467-6454 Fax: (401) 467-2398

HYDROMETER CALCULATION

Client: ESS
Project: ESS 0710550
Subject: ASTM D422 152H

Client ID #: Black Main Up

Sample #: 07100550-1

Total Wet Wt.: 462.5 g

Total Dry Wt.: 362.5 g

% Moisture: 27.6%

Starting Time: 12:55 PM

Date: 11/8/2007
Project No.: ESS 0710550
Report No.: 710550-01

Sieve	Wt. (g)	% Retain	% Passing
1"	0.0	0.0%	100.0%
3/4"	0.0	0.0%	100.0%
3/8"	0.0	0.0%	100.0%
#4	2.0	0.6%	99.4%
#10	3.5	1.0%	99.0%
#40	32.2	8.9%	91.1%
#200	325.0	89.7%	10.3%

Weight of soil use in Hydrometer: 100 g

Specific Gravity: 2.66 Correction Factor: 1

Time	Elapsed Time (min)	Actual Hydrometer Reading	Temp (°C)	Temperature and Specific Gravity Constant	Partical Diameter (mm)	Percent Finer Total
12:57	2	6.5	20	0.01365	0.03769	6.4%
13:00	5	6.5	20	0.01365	0.02384	6.4%
13:10	15	6.0	20	0.01365	0.01379	5.9%
13:25	30	6.0	20	0.01365	0.00975	5.9%
13:55	60	5.5	20	0.01365	0.00692	5.4%
17:05	250	5.0	20	0.01365	0.00340	5.0%
12:57	1440	5.0	20	0.01365	0.00142	5.0%

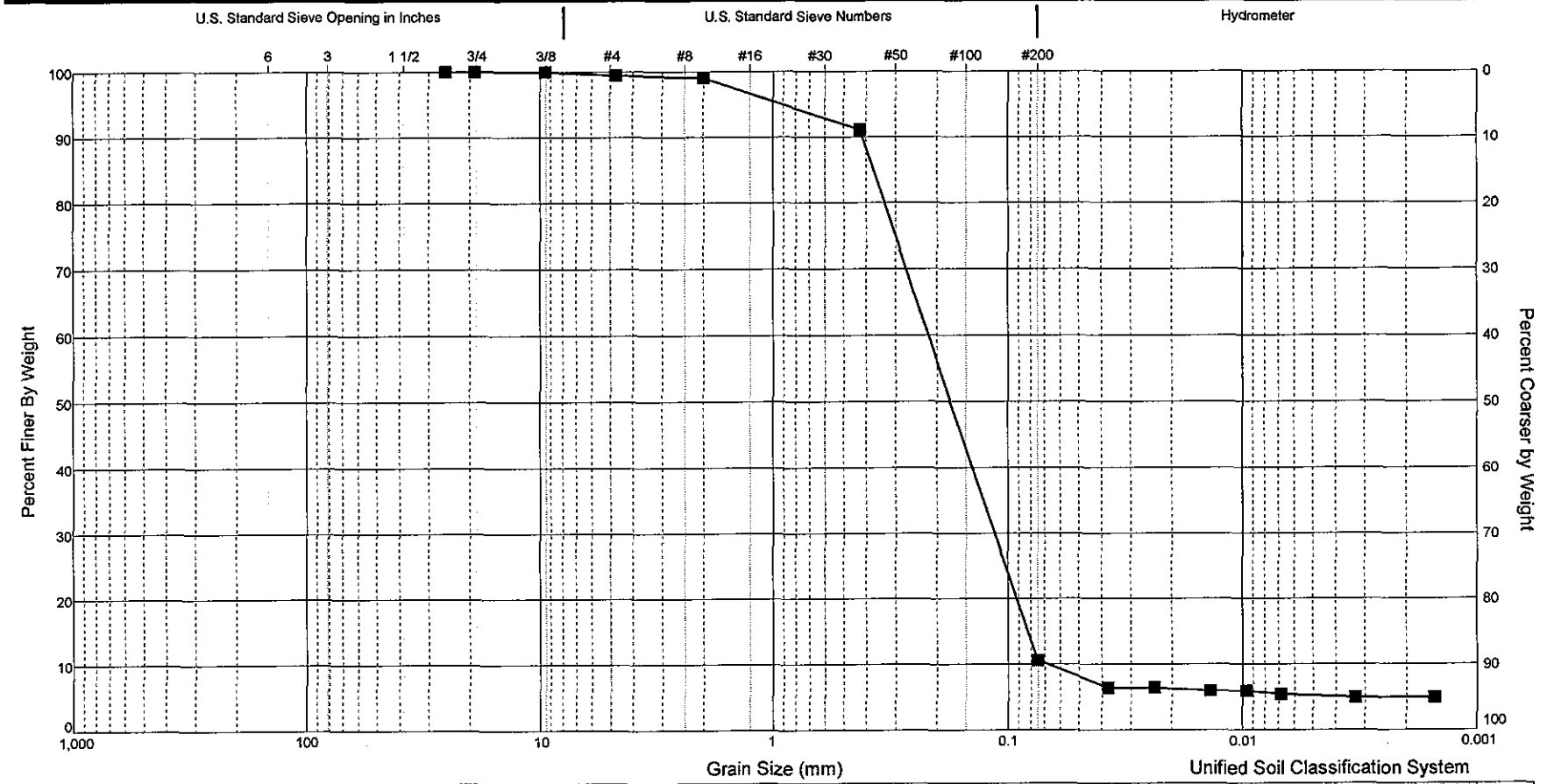
Calculation: Total % Finer = (Hydrometer Reading x Correction Factor) / Total weight of soil sample x 100%

USCS CLASSIFICATION: USCS: (SM) Silty Sand

Verfiy JAMES HEYWOOD
Certification #: NICET # 87010
Date: 11/8/2007

Reviewed by: JAMES MCMANUS, CSI
QA/QC MANAGER
Date: 11/8/2007

GRAIN-SIZE DISTRIBUTION TEST REPORT



Unified Soil Classification System

% Coarse	% Sand	% Silt	% Clay
0.0%	90.2%	4.7%	5.1%

Soil Counter	Borehole ID	Sample ID	Depth Upper		Depth Lower		Date Sampled	Texture	Soil Description	PL	LL	PI
158186329	0710550	0710550-1		ft		ft		SM	Silty Sand			

NP=No plastic limit

Company:	Thielsch Engineering		
Address:	195 Frances Ave.		
	Crantson	Cranston RI 02910	
Country:	United States		
Telephone:	401-467-6454	**Fax:**	401-467-2398

Project No.:	07-0002-1	**Borehole:**	0710550
Project Name:	ESS 07		
Location:			
Soil Counter:	158186329	**Sample ID:**	0710550-1
Depth:	ft		

USCS GRAIN-SIZE DISTRIBUTION

Tested By: James Heywood
Test Date: 08-Nov-07

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone
Client Sample ID: Black Slater Up
Date Sampled: 10/31/07 10:10
Percent Solids: 77

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-02
Sample Matrix: Soil

TCLP Date: 10/31/07

1311/6000/7000 TCLP Metals

Analyte	Results	Units	MRL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V
Arsenic	ND	mg/L	0.05	1311/6010B	5	1	SVD	11/01/07	50	50
Cadmium	**0.012**	mg/L	0.005	1311/6010B	1	1	SVD	11/01/07	50	50
Chromium	ND	mg/L	0.02	1311/6010B	5	1	SVD	11/01/07	50	50
Copper	ND	mg/L	0.020	1311/6010B		1	SVD	11/01/07	50	50
Lead	**1.58**	mg/L	0.02	1311/6010B	5	1	SVD	11/01/07	50	50
Mercury	ND	mg/L	*0.0005*	1311/7470A	0.2	1	JP	11/03/07	20	40
Nickel	**0.26**	mg/L	0.05	1311/6010B		1	SVD	11/01/07	50	50
Zinc	**3.25**	mg/L	0.050	1311/6010B		1	SVD	11/01/07	50	50

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone
Client Sample ID: Black Slater Up
Date Sampled: 10/31/07 10:10
Percent Solids: 77

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-02
Sample Matrix: Soil

3050B/6000/7000 Total Metals

RI - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
Arsenic	**11.1**	mg/kg dry	2.1	6010B	7	1	SVD	10/31/07	3.09	100
Cadmium	**2.76**	mg/kg dry	0.42	6010B	39	1	SVD	10/31/07	3.09	100
Chromium	**33.5**	mg/kg dry	0.8	6010B	1400	1	SVD	10/31/07	3.09	100
Copper	**73.2**	mg/kg dry	0.8	6010B	3100	1	SVD	10/31/07	3.09	100
Lead	**280**	mg/kg dry	4.2	6010B	150	1	SVD	10/31/07	3.09	100
Mercury	**0.212**	mg/kg dry	0.025	7471A	23	1	JP	11/02/07	1.05	40
Nickel	**32.7**	mg/kg dry	2.1	6010B	1000	1	SVD	10/31/07	3.09	100
Zinc	**703**	mg/kg dry	10.5	6010B	6000	5	SVD	11/01/07	3.09	100

CERTIFICATE OF ANALYSIS

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Client Project ID: Blackstone
Client Sample ID: Black Slater Up
Date Sampled: 10/31/07 10:10
Percent Solids: 77
Initial Volume: 20.7
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-02
Sample Matrix: Soil
Analyst: SEP
Prepared: 11/01/07

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	RI - RES DEC Limit	DF	Analyzed
Aroclor 1016	ND	mg/kg dry	0.0627	10	1	11/02/07
Aroclor 1221	ND	mg/kg dry	0.0627	10	1	11/02/07
Aroclor 1232	ND	mg/kg dry	0.0627	10	1	11/02/07
Aroclor 1242	ND	mg/kg dry	0.0627	10	1	11/02/07
Aroclor 1248	ND	mg/kg dry	0.0627	10	1	11/02/07
Aroclor 1254	ND	mg/kg dry	0.0627	10	1	11/02/07
Aroclor 1260	**0.128**	mg/kg dry	0.0627	10	1	11/02/07
Aroclor 1262	ND	mg/kg dry	0.0627	10	1	11/02/07
Aroclor 1268	ND	mg/kg dry	0.0627	10	1	11/02/07

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*102 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*132 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*96 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*113 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone
Client Sample ID: Black Slater Up
Date Sampled: 10/31/07 10:10
Percent Solids: 77
Initial Volume: 19.9
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-02
Sample Matrix: Soil
Analyst: SEP
Prepared: 11/01/07

8100M Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	RI - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	**784**	mg/kg dry	48.9	500	1	11/02/07

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*86 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone
Client Sample ID: Black Slater Up
Date Sampled: 10/31/07 10:10
Percent Solids: 77
Initial Volume: 15.9
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-02
Sample Matrix: Soil
Analyst: VSC
Prepared: 11/01/07

8270C Semi-Volatile Organic Compounds

Analyte	Results	Units	MRL	RI - RES DEC Limit	DF	Analyzed
1,1-Biphenyl	ND	mg/kg dry	0.408	0.8	1	11/02/07
1,2,4-Trichlorobenzene	ND	mg/kg dry	0.408	96	1	11/02/07
1,2-Dichlorobenzene	ND	mg/kg dry	0.408	510	1	11/02/07
1,3-Dichlorobenzene	ND	mg/kg dry	0.408	430	1	11/02/07
1,4-Dichlorobenzene	ND	mg/kg dry	0.408	27	1	11/02/07
2,3,4,6-Tetrachlorophenol	ND	mg/kg dry	2.05		1	11/02/07
2,4,5-Trichlorophenol	ND	mg/kg dry	0.408	330	1	11/02/07
2,4,6-Trichlorophenol	ND	mg/kg dry	0.408	58	1	11/02/07
2,4-Dichlorophenol	ND	mg/kg dry	0.408	30	1	11/02/07
2,4-Dimethylphenol	ND	mg/kg dry	0.408	1400	1	11/02/07
2,4-Dinitrophenol	ND	mg/kg dry	2.05	160	1	11/02/07
2,4-Dinitrotoluene	ND	mg/kg dry	0.408	0.9	1	11/02/07
2,6-Dinitrotoluene	ND	mg/kg dry	0.408		1	11/02/07
2-Chloronaphthalene	ND	mg/kg dry	0.408		1	11/02/07
2-Chlorophenol	ND	mg/kg dry	0.408	50	1	11/02/07
2-Methylnaphthalene	ND	mg/kg dry	0.408	123	1	11/02/07
2-Methylphenol	ND	mg/kg dry	0.408		1	11/02/07
2-Nitroaniline	ND	mg/kg dry	0.408		1	11/02/07
2-Nitrophenol	ND	mg/kg dry	0.408		1	11/02/07
3,3'-Dichlorobenzidine	ND	mg/kg dry	0.817	1.4	1	11/02/07
3+4-Methylphenol	ND	mg/kg dry	0.817		1	11/02/07
3-Nitroaniline	ND	mg/kg dry	0.408		1	11/02/07
4,6-Dinitro-2-Methylphenol	ND	mg/kg dry	2.05		1	11/02/07
4-Bromophenyl-phenylether	ND	mg/kg dry	0.408		1	11/02/07
4-Chloro-3-Methylphenol	ND	mg/kg dry	0.408		1	11/02/07
4-Chloroaniline	ND	mg/kg dry	0.817	310	1	11/02/07
4-Chloro-phenyl-phenyl ether	ND	mg/kg dry	0.408		1	11/02/07
4-Nitroaniline	ND	mg/kg dry	0.408		1	11/02/07
4-Nitrophenol	ND	mg/kg dry	2.05		1	11/02/07
Acenaphthene	**1.98**	mg/kg dry	0.408	43	1	11/02/07
Acenaphthylene	ND	mg/kg dry	0.408	23	1	11/02/07
Acetophenone	ND	mg/kg dry	0.817		1	11/02/07
Aniline	ND	mg/kg dry	2.05		1	11/02/07
Anthracene	**6.94**	mg/kg dry	0.408	35	1	11/02/07
Azobenzene	ND	mg/kg dry	0.408		1	11/02/07

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone
Client Sample ID: Black Slater Up
Date Sampled: 10/31/07 10:10
Percent Solids: 77
Initial Volume: 15.9
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-02
Sample Matrix: Soil
Analyst: VSC
Prepared: 11/01/07

8270C Semi-Volatile Organic Compounds

Benzo(a)anthracene	**10.4**	mg/kg dry	4.08	0.9	10	11/03/07
Benzo(a)pyrene	**7.94**	mg/kg dry	0.205	0.4	1	11/02/07
Benzo(b)fluoranthene	**7.33**	mg/kg dry	4.08	0.9	10	11/03/07
Benzo(g,h,i)perylene	**1.16**	mg/kg dry	0.408	0.8	1	11/02/07
Benzo(k)fluoranthene	**5.35**	mg/kg dry	4.08	0.9	10	11/03/07
Benzoic Acid	ND	mg/kg dry	2.05		1	11/02/07
Benzyl Alcohol	ND	mg/kg dry	0.408		1	11/02/07
bis(2-Chloroethoxy)methane	ND	mg/kg dry	0.408		1	11/02/07
bis(2-Chloroethyl)ether	ND	mg/kg dry	0.408	0.6	1	11/02/07
bis(2-chloroisopropyl)Ether	ND	mg/kg dry	0.408	9.1	1	11/02/07
bis(2-Ethylhexyl)phthalate	**1.19**	mg/kg dry	0.408	46	1	11/02/07
Butylbenzylphthalate	ND	mg/kg dry	0.408		1	11/02/07
Carbazole	**0.497**	mg/kg dry	0.408		1	11/02/07
Chrysene	**9.94**	mg/kg dry	2.05	0.4	10	11/03/07
Dibenzo(a,h)Anthracene	ND	mg/kg dry	0.205	0.4	1	11/02/07
Dibenzofuran	**1.45**	mg/kg dry	0.408		1	11/02/07
Diethylphthalate	ND	mg/kg dry	0.408	340	1	11/02/07
Dimethylphthalate	ND	mg/kg dry	0.408	1900	1	11/02/07
Di-n-butylphthalate	ND	mg/kg dry	0.408		1	11/02/07
Di-n-octylphthalate	ND	mg/kg dry	0.408		1	11/02/07
Fluoranthene	**27.5**	mg/kg dry	4.08	20	10	11/03/07
Fluorene	**3.46**	mg/kg dry	0.408	28	1	11/02/07
Hexachlorobenzene	ND	mg/kg dry	0.205	0.4	1	11/02/07
Hexachlorobutadiene	ND	mg/kg dry	0.408	8.2	1	11/02/07
Hexachlorocyclopentadiene	ND	mg/kg dry	2.05		1	11/02/07
Hexachloroethane	ND	mg/kg dry	0.408	46	1	11/02/07
Indeno(1,2,3-cd)Pyrene	**1.36**	mg/kg dry	0.408	0.9	1	11/02/07
Isophorone	ND	mg/kg dry	0.408		1	11/02/07
Naphthalene	ND	mg/kg dry	0.408	54	1	11/02/07
Nitrobenzene	ND	mg/kg dry	0.408		1	11/02/07
N-Nitrosodimethylamine	ND	mg/kg dry	0.408		1	11/02/07
N-Nitroso-Di-n-Propylamine	ND	mg/kg dry	0.408		1	11/02/07
N-nitrosodiphenylamine	ND	mg/kg dry	0.408		1	11/02/07
Pentachlorophenol	ND	mg/kg dry	2.05	5.3	1	11/02/07
Phenanthrene	**24.6**	mg/kg dry	4.08	40	10	11/03/07
Phenol	ND	mg/kg dry	0.408	6000	1	11/02/07

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone
Client Sample ID: Black Slater Up
Date Sampled: 10/31/07 10:10
Percent Solids: 77
Initial Volume: 15.9
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-02
Sample Matrix: Soil
Analyst: VSC
Prepared: 11/01/07

8270C Semi-Volatile Organic Compounds

Pyrene	**20.9**	mg/kg dry	4.08	13	10	11/03/07
Pyridine	ND	mg/kg dry	2.05		1	11/02/07

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*58 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*86 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*59 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*70 %*		*30-130*
Surrogate: 2-Fluorophenol	*57 %*		*30-130*
Surrogate: Nitrobenzene-d5	*58 %*		*30-130*
Surrogate: Phenol-d6	*62 %*		*30-130*
Surrogate: p-Terphenyl-d14	*88 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone
Client Sample ID: Black Slater Up
Date Sampled: 10/31/07 10:10

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-02
Sample Matrix: Soil

Classical Chemistry

Analyte	Results	Units	MRL	Method	RI - RES DEC Limit	DF	Analyst	Analyzed
Grain Size	See Attached							
Hydrometer	See Attached							

THIELSCH ENGINEERING
Construction Testing Services
195 Francis Avenue, Cranston, RI 02910
Tel. (401) 467-6454 Fax: (401) 467-2398

HYDROMETER CALCULATION

Client: ESS
Project: ESS 0710550
Subject: ASTM D422 152H

Client ID #: Black Slater Up

Sample #: 07100550-2

Total Wet Wt.: 402.5 g

Total Dry Wt.: 320.0 g

% Moisture: 25.8%

Starting Time: 1:05 PM

Date: 11/8/2007
Project No.: ESS 0710550
Report No.: 710550-02

Sieve	Wt. (g)	% Retain	% Passing
1"	0.0	0.0%	100.0%
3/4"	25.0	7.8%	92.2%
3/8"	56.5	17.7%	82.3%
#4	144.0	45.0%	55.0%
#10	201.0	62.8%	37.2%
#40	241.3	75.4%	24.6%
#200	298.9	93.4%	6.6%

Weight of soil use in Hydrometer: 65 g

Specific Gravity: 2.70 Correction Factor: 0.99

Time	Elapsed Time (min)	Actual Hydrometer Reading	Temp (°C)	Temperature and Specific Gravity Constant	Partical Diameter (mm)	Percent Finer Total
13:07	2	8.0	20	0.01345	0.03683	4.5%
13:10	5	7.0	20	0.01345	0.02345	4.0%
13:20	15	6.5	20	0.01345	0.01356	3.7%
13:35	30	6.0	20	0.01345	0.00961	3.4%
14:05	60	5.5	20	0.01345	0.00681	3.1%
17:15	250	4.5	20	0.01345	0.00335	2.5%
13:07	1440	4.5	20	0.01345	0.00140	2.5%

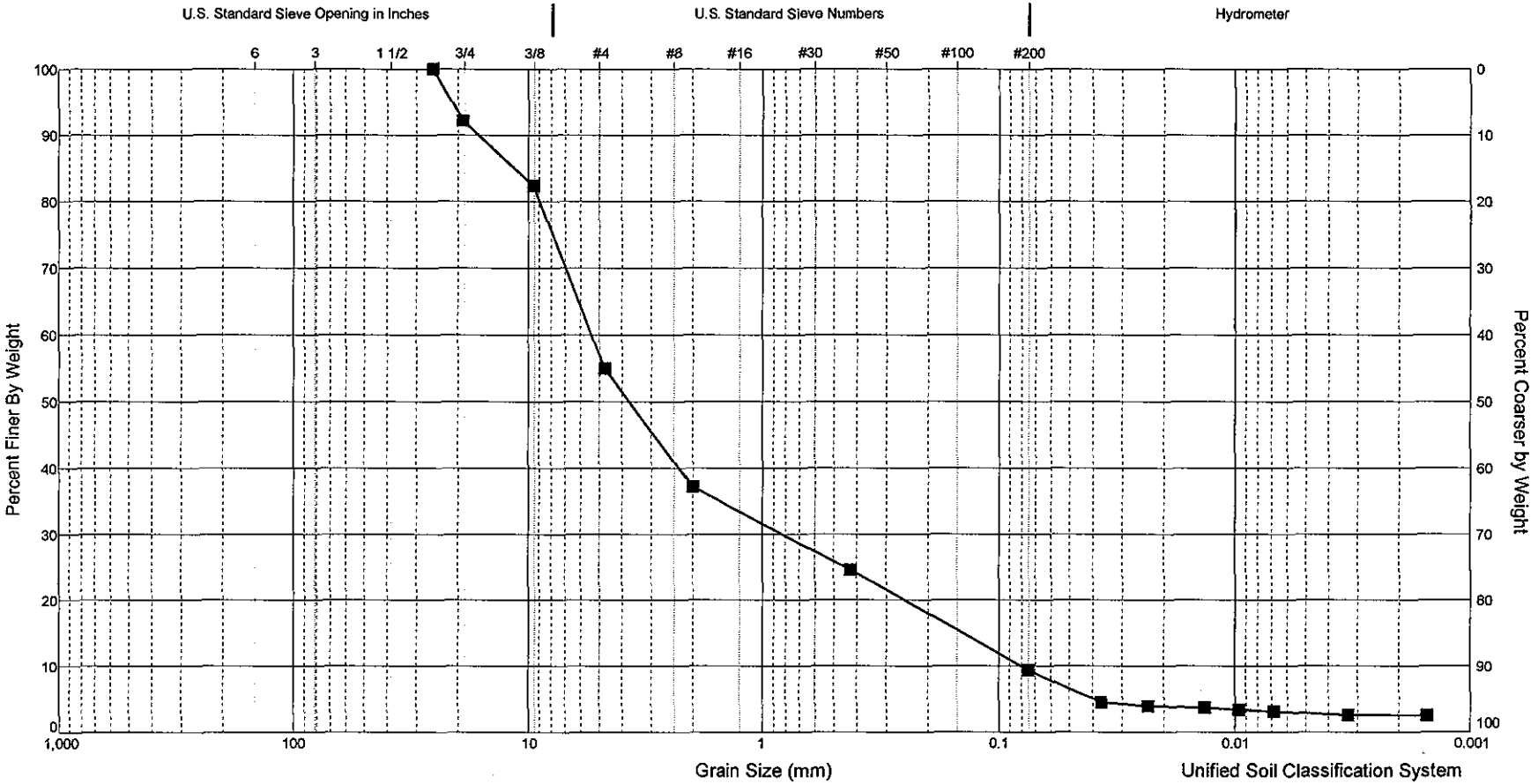
Calculation: Total % Finer = (Hydrometer Reading x Correction Factor) / Total weight of soil sample x 100%

USCS CLASSIFICATION: USCS: (SW-SM) Well-graded sand with silt and gravel

Verfiy JAMES HEYWOOD
Certification #: NICET # 87010
Date: 11/8/2007

Reviewed by: JAMES MCMANUS, CSI
QA/QC MANAGER
Date: 11/8/2007

GRAIN-SIZE DISTRIBUTION TEST REPORT



% Coarse	% Sand	% Silt	% Clay
45.5%	46.0%	5.9%	2.6%

Soil Counter	Borehole ID	Sample ID	Depth Upper		Depth Lower		Date Sampled	Texture	Soil Description	PL	LL	PI
973422262	0710550	0710550-2		ft		ft		SW-SM	Well-graded sand with silt and gravel			

NP=No plastic limit

Company:	Thielsch Engineering		
Address:	195 Frances Ave.		
	Crantson	Cranston RI 02910	
Country:	United States		
Telephone:	401-467-6454	**Fax:**	401-467-2398

Project No.:	07-0002-1	**Borehole:**	0710550
Project Name:	ESS 07		
Location:			
Soil Counter:	973422262	**Sample ID:**	0710550-2
Depth:	ft		

USCS GRAIN-SIZE DISTRIBUTION

Tested By: James Heywood
Test Date: 08-Nov-07

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone
Client Sample ID: Black Valley Up
Date Sampled: 10/31/07 11:15
Percent Solids: 73

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-03
Sample Matrix: Soil

TCLP Date: 10/31/07

1311/6000/7000 TCLP Metals

Analyte	Results	Units	MRL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V
Arsenic	ND	mg/L	0.05	1311/6010B	5	1	SVD	11/01/07	50	50
Cadmium	**0.015**	mg/L	0.005	1311/6010B	1	1	SVD	11/01/07	50	50
Chromium	ND	mg/L	0.02	1311/6010B	5	1	SVD	11/01/07	50	50
Copper	**0.078**	mg/L	0.020	1311/6010B		1	SVD	11/01/07	50	50
Lead	**0.09**	mg/L	0.02	1311/6010B	5	1	SVD	11/01/07	50	50
Mercury	ND	mg/L	0.0005	1311/7470A	0.2	1	JP	11/03/07	20	40
Nickel	ND	mg/L	0.05	1311/6010B		1	SVD	11/01/07	50	50
Zinc	**1.20**	mg/L	0.050	1311/6010B		1	SVD	11/01/07	50	50

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone
Client Sample ID: Black Valley Up
Date Sampled: 10/31/07 11:15
Percent Solids: 73

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-03
Sample Matrix: Soil

3050B/6000/7000 Total Metals

RI - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
Arsenic	ND	mg/kg dry	2.7	6010B	7	1	SVD	10/31/07	2.49	100
Cadmium	**0.67**	mg/kg dry	0.55	6010B	39	1	SVD	10/31/07	2.49	100
Chromium	**17.0**	mg/kg dry	1.1	6010B	1400	1	SVD	10/31/07	2.49	100
Copper	**21.5**	mg/kg dry	1.1	6010B	3100	1	SVD	10/31/07	2.49	100
Lead	**39.5**	mg/kg dry	5.5	6010B	150	1	SVD	10/31/07	2.49	100
Mercury	**0.029**	mg/kg dry	0.024	7471A	23	1	JP	11/02/07	1.12	40
Nickel	**6.4**	mg/kg dry	2.7	6010B	1000	1	SVD	10/31/07	2.49	100
Zinc	**70.1**	mg/kg dry	2.7	6010B	6000	1	SVD	10/31/07	2.49	100

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone
Client Sample ID: Black Valley Up
Date Sampled: 10/31/07 11:15
Percent Solids: 73
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-03
Sample Matrix: Soil
Analyst: SEP
Prepared: 11/01/07

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	RI - RES DEC Limit	DF	Analyzed
Aroclor 1016	ND	mg/kg dry	0.0678	10	1	11/02/07
Aroclor 1221	ND	mg/kg dry	0.0678	10	1	11/02/07
Aroclor 1232	ND	mg/kg dry	0.0678	10	1	11/02/07
Aroclor 1242	ND	mg/kg dry	0.0678	10	1	11/02/07
Aroclor 1248	ND	mg/kg dry	0.0678	10	1	11/02/07
Aroclor 1254	**0.336**	mg/kg dry	0.0678	10	1	11/02/07
Aroclor 1260	ND	mg/kg dry	0.0678	10	1	11/02/07
Aroclor 1262	ND	mg/kg dry	0.0678	10	1	11/02/07
Aroclor 1268	ND	mg/kg dry	0.0678	10	1	11/02/07

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*84 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*106 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*112 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone
Client Sample ID: Black Valley Up
Date Sampled: 10/31/07 11:15
Percent Solids: 73
Initial Volume: 20.2
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-03
Sample Matrix: Soil
Analyst: SEP
Prepared: 11/01/07

8100M Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	RI - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	**529**	mg/kg dry	50.9	500	1	11/02/07

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*82 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone
Client Sample ID: Black Valley Up
Date Sampled: 10/31/07 11:15
Percent Solids: 73
Initial Volume: 15.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-03
Sample Matrix: Soil
Analyst: VSC
Prepared: 11/01/07

8270C Semi-Volatile Organic Compounds

Analyte	Results	Units	MRL	RI - RES DEC Limit	DF	Analyzed
1,1-Biphenyl	ND	mg/kg dry	0.441	0.8	1	11/02/07
1,2,4-Trichlorobenzene	ND	mg/kg dry	0.441	96	1	11/02/07
1,2-Dichlorobenzene	ND	mg/kg dry	0.441	510	1	11/02/07
1,3-Dichlorobenzene	ND	mg/kg dry	0.441	430	1	11/02/07
1,4-Dichlorobenzene	ND	mg/kg dry	0.441	27	1	11/02/07
2,3,4,6-Tetrachlorophenol	ND	mg/kg dry	2.21		1	11/02/07
2,4,5-Trichlorophenol	ND	mg/kg dry	0.441	330	1	11/02/07
2,4,6-Trichlorophenol	ND	mg/kg dry	0.441	58	1	11/02/07
2,4-Dichlorophenol	ND	mg/kg dry	0.441	30	1	11/02/07
2,4-Dimethylphenol	ND	mg/kg dry	0.441	1400	1	11/02/07
2,4-Dinitrophenol	ND	mg/kg dry	2.21	160	1	11/02/07
2,4-Dinitrotoluene	ND	mg/kg dry	0.441	0.9	1	11/02/07
2,6-Dinitrotoluene	ND	mg/kg dry	0.441		1	11/02/07
2-Chloronaphthalene	ND	mg/kg dry	0.441		1	11/02/07
2-Chlorophenol	ND	mg/kg dry	0.441	50	1	11/02/07
2-Methylnaphthalene	ND	mg/kg dry	0.441	123	1	11/02/07
2-Methylphenol	ND	mg/kg dry	0.441		1	11/02/07
2-Nitroaniline	ND	mg/kg dry	0.441		1	11/02/07
2-Nitrophenol	ND	mg/kg dry	0.441		1	11/02/07
3,3'-Dichlorobenzidine	ND	mg/kg dry	0.884	1.4	1	11/02/07
3+4-Methylphenol	ND	mg/kg dry	0.884		1	11/02/07
3-Nitroaniline	ND	mg/kg dry	0.441		1	11/02/07
4,6-Dinitro-2-Methylphenol	ND	mg/kg dry	2.21		1	11/02/07
4-Bromophenyl-phenylether	ND	mg/kg dry	0.441		1	11/02/07
4-Chloro-3-Methylphenol	ND	mg/kg dry	0.441		1	11/02/07
4-Chloroaniline	ND	mg/kg dry	0.884	310	1	11/02/07
4-Chloro-phenyl-phenyl ether	ND	mg/kg dry	0.441		1	11/02/07
4-Nitroaniline	ND	mg/kg dry	0.441		1	11/02/07
4-Nitrophenol	ND	mg/kg dry	2.21		1	11/02/07
Acenaphthene	ND	mg/kg dry	0.441	43	1	11/02/07
Acenaphthylene	ND	mg/kg dry	0.441	23	1	11/02/07
Acetophenone	ND	mg/kg dry	0.884		1	11/02/07
Aniline	ND	mg/kg dry	2.21		1	11/02/07
Anthracene	ND	mg/kg dry	0.441	35	1	11/02/07
Azobenzene	ND	mg/kg dry	0.441		1	11/02/07

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone
Client Sample ID: Black Valley Up
Date Sampled: 10/31/07 11:15
Percent Solids: 73
Initial Volume: 15.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-03
Sample Matrix: Soil
Analyst: VSC
Prepared: 11/01/07

8270C Semi-Volatile Organic Compounds

Benzo(a)anthracene	**1.04**	mg/kg dry	0.441	0.9	1	11/02/07
Benzo(a)pyrene	**1.00**	mg/kg dry	0.221	0.4	1	11/02/07
Benzo(b)fluoranthene	**1.05**	mg/kg dry	0.441	0.9	1	11/02/07
Benzo(g,h,i)perylene	**0.612**	mg/kg dry	0.441	0.8	1	11/02/07
Benzo(k)fluoranthene	**0.608**	mg/kg dry	0.441	0.9	1	11/02/07
Benzoic Acid	ND	mg/kg dry	2.21		1	11/02/07
Benzyl Alcohol	**1.03**	mg/kg dry	0.441		1	11/02/07
bis(2-Chloroethoxy)methane	ND	mg/kg dry	0.441		1	11/02/07
bis(2-Chloroethyl)ether	ND	mg/kg dry	0.441	0.6	1	11/02/07
bis(2-chloroisopropyl)Ether	ND	mg/kg dry	0.441	9.1	1	11/02/07
bis(2-Ethylhexyl)phthalate	**2.14**	mg/kg dry	0.441	46	1	11/02/07
Butylbenzylphthalate	ND	mg/kg dry	0.441		1	11/02/07
Carbazole	ND	mg/kg dry	0.441		1	11/02/07
Chrysene	**1.27**	mg/kg dry	0.221	0.4	1	11/02/07
Dibenzo(a,h)Anthracene	ND	mg/kg dry	0.221	0.4	1	11/02/07
Dibenzofuran	ND	mg/kg dry	0.441		1	11/02/07
Diethylphthalate	ND	mg/kg dry	0.441	340	1	11/02/07
Dimethylphthalate	ND	mg/kg dry	0.441	1900	1	11/02/07
Di-n-butylphthalate	ND	mg/kg dry	0.441		1	11/02/07
Di-n-octylphthalate	ND	mg/kg dry	0.441		1	11/02/07
Fluoranthene	**2.40**	mg/kg dry	0.441	20	1	11/02/07
Fluorene	ND	mg/kg dry	0.441	28	1	11/02/07
Hexachlorobenzene	ND	mg/kg dry	0.221	0.4	1	11/02/07
Hexachlorobutadiene	ND	mg/kg dry	0.441	8.2	1	11/02/07
Hexachlorocyclopentadiene	ND	mg/kg dry	2.21		1	11/02/07
Hexachloroethane	ND	mg/kg dry	0.441	46	1	11/02/07
Indeno(1,2,3-cd)Pyrene	**0.556**	mg/kg dry	0.441	0.9	1	11/02/07
Isophorone	ND	mg/kg dry	0.441		1	11/02/07
Naphthalene	ND	mg/kg dry	0.441	54	1	11/02/07
Nitrobenzene	ND	mg/kg dry	0.441		1	11/02/07
N-Nitrosodimethylamine	ND	mg/kg dry	0.441		1	11/02/07
N-Nitroso-Di-n-Propylamine	ND	mg/kg dry	0.441		1	11/02/07
N-nitrosodiphenylamine	ND	mg/kg dry	0.441		1	11/02/07
Pentachlorophenol	ND	mg/kg dry	2.21	5.3	1	11/02/07
Phenanthrene	**1.43**	mg/kg dry	0.441	40	1	11/02/07
Phenol	ND	mg/kg dry	0.441	6000	1	11/02/07

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone
Client Sample ID: Black Valley Up
Date Sampled: 10/31/07 11:15
Percent Solids: 73
Initial Volume: 15.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-03
Sample Matrix: Soil
Analyst: VSC
Prepared: 11/01/07

8270C Semi-Volatile Organic Compounds

Pyrene	**2.18**	mg/kg dry	0.441	13	1	11/02/07
Pyridine	ND	mg/kg dry	2.21		1	11/02/07

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*60 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*91 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*62 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*75 %*		*30-130*
Surrogate: 2-Fluorophenol	*59 %*		*30-130*
Surrogate: Nitrobenzene-d5	*66 %*		*30-130*
Surrogate: Phenol-d6	*62 %*		*30-130*
Surrogate: p-Terphenyl-d14	*90 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone
Client Sample ID: Black Valley Up
Date Sampled: 10/31/07 11:15

ESS Laboratory Work Order: 0710550
ESS Laboratory Sample ID: 0710550-03
Sample Matrix: Soil

Classical Chemistry

Analyte	Results	Units	MRL	Method	RI - RES DEC Limit	DF	Analyst	Analyzed
Grain Size	See Attached							
Hydrometer	See Attached							

THIELSCH ENGINEERING
Construction Testing Services
195 Francis Avenue, Cranston, RI 02910
Tel. (401) 467-6454 Fax: (401) 467-2398

HYDROMETER CALCULATION

Client: ESS
Project: ESS 0710550
Subject: ASTM D422 152H

Client ID #: Black Valley Up

Sample #: 07100550-3

Total Wet Wt.: 431.0 g

Total Dry Wt.: 330.0 g

% Moisture: 30.6%

Starting Time: 1:19PM

Date: 11/8/2007
Project No.: ESS 0710550
Report No.: 710550-03

Sieve	Wt. (g)	% Retain	% Passing
1"	0.0	0.0%	100.0%
3/4"	0.0	0.0%	100.0%
3/8"	0.0	0.0%	100.0%
#4	2.0	0.6%	99.4%
#10	8.0	2.4%	97.6%
#40	48.3	14.6%	85.4%
#200	275.0	83.3%	16.7%

Weight of soil use in Hydrometer: 100 g

Specific Gravity: 2.67 Correction Factor: 0.995

Time	Elapsed Time (min)	Actual Hydrometer Reading	Temp (°C)	Temperature and Specific Gravity Constant	Partical Diameter (mm)	Percent Finer Total
1:20PM	2	6.0	20	0.01355	0.03748	5.8%
13:24	5	6.0	20	0.01355	0.02370	5.8%
1:34PM	15	5.5	20	0.01355	0.01373	5.3%
1:49PM	30	4.0	20	0.01355	0.00977	3.9%
2:19PM	60	4.0	20	0.01355	0.00691	3.9%
5:29PM	250	3.5	20	0.01355	0.00340	3.4%
1:21PM	1440	3.5	20	0.01355	0.00141	3.4%

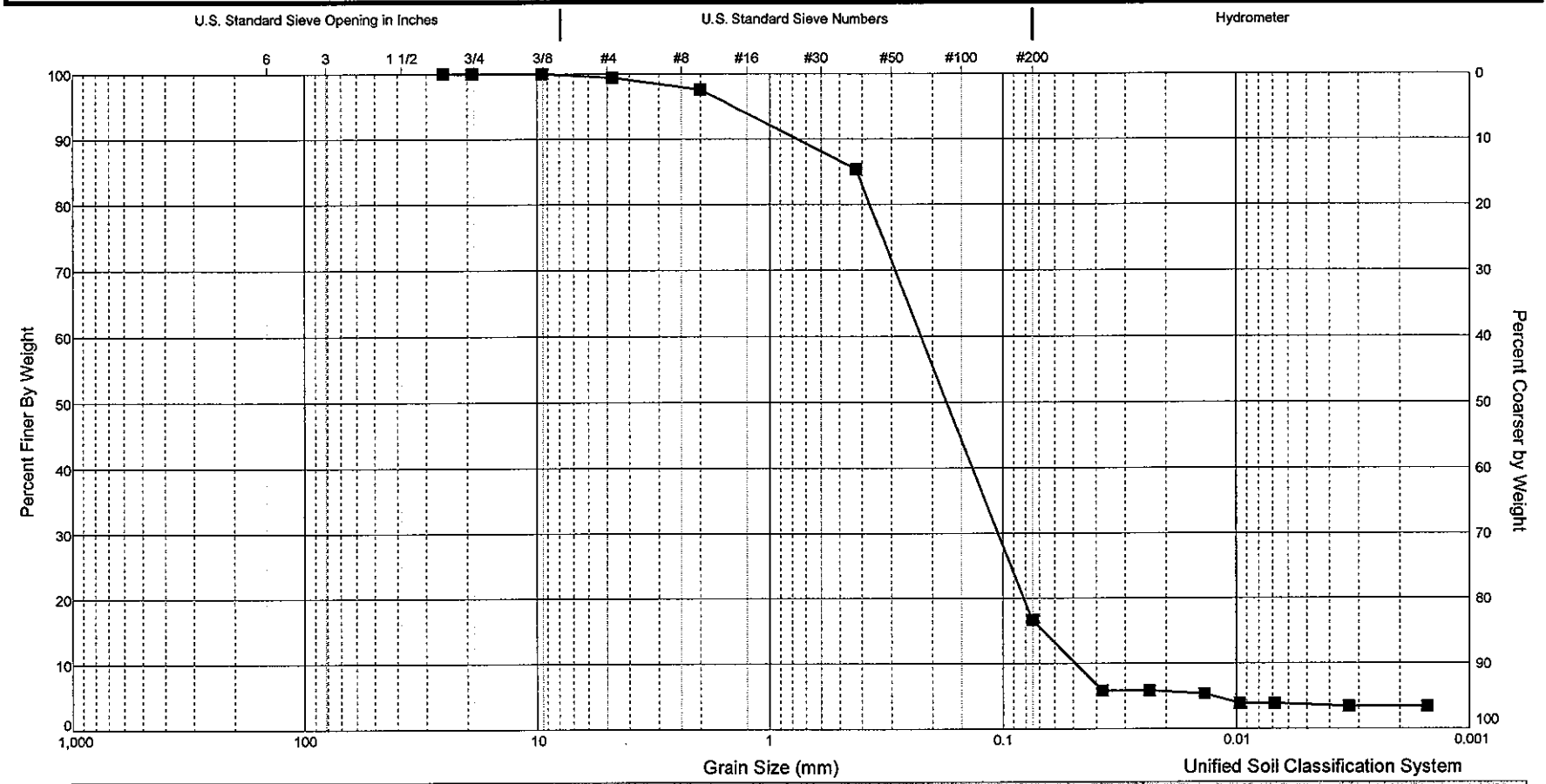
Calculation: Total % Finer = (Hydrometer Reading x Correction Factor) / Total weight of soil sample x 100%

USCS CLASSIFICATION: USCS: (SM) Silty sand

Verfiy JAMES HEYWOOD
Certification #: NICET # 87010
Date: 11/8/2007

Reviewed by: JAMES MCMANUS, CSI
QA/QC MANAGER
Date: 11/8/2007

GRAIN-SIZE DISTRIBUTION TEST REPORT



% Coarse	% Sand	% Silt	% Clay
0.3%	83.8%	12.8%	3.1%

Soil Counter	Borehole ID	Sample ID	Depth Upper		Depth Lower		Date Sampled	Texture	Soil Description	PL	LL	PI
777633084	0710550	0710550-3		ft		ft		SM	Silty sand			

NP=No plastic limit

Company:	Thielsch Engineering		
Address:	195 Frances Ave.		
	Crantson	Cranston RI 02910	
Country:	United States		
Telephone:	401-467-6454	**Fax:**	401-467-2398

Project No.:	07-0002-1	**Borehole:**	0710550
Project Name:	ESS 07		
Location:			
Soil Counter:	777633084	**Sample ID:**	0710550-3
Depth:	ft		

USCS GRAIN-SIZE DISTRIBUTION

Tested By: James Heywood
Test Date: 08-Nov-07

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone

ESS Laboratory Work Order: 0710550

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
1311/6000/7000 TCLP Metals										
Batch BK70106 - 3005A										
Blank										
Lead	ND	0.02	mg/L							
Blank										
Arsenic	ND	0.05	mg/L							
Cadmium	ND	0.005	mg/L							
Chromium	ND	0.02	mg/L							
Copper	ND	0.020	mg/L							
Lead	ND	0.02	mg/L							
Nickel	ND	0.05	mg/L							
Zinc	ND	0.050	mg/L							
LCS										
Arsenic	0.54	0.05	mg/L	0.5000		108	80-120			
Cadmium	0.259	0.005	mg/L	0.2500		104	80-120			
Chromium	0.51	0.02	mg/L	0.5000		102	80-120			
Copper	0.584	0.020	mg/L	0.5000		117	80-120			
Lead	0.53	0.02	mg/L	0.5000		106	80-120			
Nickel	0.52	0.05	mg/L	0.5000		104	80-120			
Zinc	0.549	0.050	mg/L	0.5000		110	80-120			
LCS Dup										
Arsenic	0.55	0.05	mg/L	0.5000		110	80-120	2	20	
Cadmium	0.263	0.005	mg/L	0.2500		105	80-120	1	20	
Chromium	0.51	0.02	mg/L	0.5000		102	80-120	0.7	20	
Copper	0.571	0.020	mg/L	0.5000		114	80-120	2	20	
Lead	0.53	0.02	mg/L	0.5000		107	80-120	0.9	20	
Nickel	0.52	0.05	mg/L	0.5000		103	80-120	0.4	20	
Zinc	0.546	0.050	mg/L	0.5000		109	80-120	0.6	20	
Batch BK70212 - 245.1/7470A										
Blank										
Mercury	ND	0.0005	mg/L							
LCS										
Mercury	0.0056	0.0005	mg/L	0.006000		93	80-120			
LCS Dup										
Mercury	0.0055	0.0005	mg/L	0.006000		92	80-120	1	20	
Duplicate **Source: 0710550-03**										
Mercury	ND	0.0005	mg/L		ND				20	
Matrix Spike **Source: 0710550-03**										
Mercury	0.0057	0.0005	mg/L	0.006000	ND	95	75-125			
Matrix Spike Dup **Source: 0710550-03**										
Mercury	0.0056	0.0005	mg/L	0.006000	ND	93	75-125	2	20	
3050B/6000/7000 Total Metals										
Batch BJ73114 - 3050B										
Blank										

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone

ESS Laboratory Work Order: 0710550

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch BJ73114 - 3050B										
Cadmium	ND	0.67	mg/kg wet							
Chromium	ND	1.3	mg/kg wet							
Copper	ND	1.3	mg/kg wet							
Lead	ND	6.7	mg/kg wet							
Nickel	ND	3.3	mg/kg wet							
Zinc	ND	3.3	mg/kg wet							
LCS										
Cadmium	15.6	0.67	mg/kg wet	16.67		94	80-120			
Chromium	33.3	1.3	mg/kg wet	33.33		100	80-120			
Copper	33.4	1.3	mg/kg wet	33.33		100	80-120			
Lead	33.8	6.7	mg/kg wet	33.33		101	80-120			
Nickel	32.8	3.3	mg/kg wet	33.33		98	80-120			
Zinc	32.1	3.3	mg/kg wet	33.33		96	80-120			
LCS Dup										
Cadmium	15.7	0.67	mg/kg wet	16.67		94	80-120	0.6	20	
Chromium	33.0	1.3	mg/kg wet	33.33		99	80-120	0.9	20	
Copper	33.3	1.3	mg/kg wet	33.33		100	80-120	0.2	20	
Lead	33.9	6.7	mg/kg wet	33.33		102	80-120	0.2	20	
Nickel	32.8	3.3	mg/kg wet	33.33		99	80-120	0.2	20	
Zinc	32.2	3.3	mg/kg wet	33.33		97	80-120	0.3	20	
Reference										
Cadmium	53.7	1.00	mg/kg wet	63.00		85	82.06-117.94			
Chromium	81.2	2.0	mg/kg wet	97.90		83	78.86-120.53			
Copper	76.3	2.0	mg/kg wet	87.00		88	82.41-117.24			
Lead	81.3	10.0	mg/kg wet	88.90		91	81.78-118.11			
Nickel	102	5.0	mg/kg wet	116.0		88	82.59-117.24			
Zinc	195	5.0	mg/kg wet	230.0		85	79.13-120.87			
Batch BJ73115 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	0.189	0.033	mg/kg wet	0.2000		94	80-120			
LCS Dup										
Mercury	0.191	0.033	mg/kg wet	0.2000		95	80-120	1	20	
Reference										
Mercury	4.18	0.333	mg/kg wet	4.470		93	66-132.66			
8082 Polychlorinated Biphenyls (PCB)										
Batch BK70129 - 3541										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone

ESS Laboratory Work Order: 0710550

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch BK70129 - 3541										
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0222*		mg/kg wet	*0.02500*		*89*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0213*		mg/kg wet	*0.02500*		*85*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0227*		mg/kg wet	*0.02500*		*91*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0216*		mg/kg wet	*0.02500*		*87*	*30-150*			
LCS										
Aroclor 1016	0.487	0.0500	mg/kg wet	0.5000		97	40-140			
Aroclor 1260	0.456	0.0500	mg/kg wet	0.5000		91	40-140			
Surrogate: Decachlorobiphenyl	*0.0226*		mg/kg wet	*0.02500*		*91*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0209*		mg/kg wet	*0.02500*		*84*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0220*		mg/kg wet	*0.02500*		*88*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0210*		mg/kg wet	*0.02500*		*84*	*30-150*			
LCS Dup										
Aroclor 1016	0.527	0.0500	mg/kg wet	0.5000		105	40-140	8	50	
Aroclor 1260	0.491	0.0500	mg/kg wet	0.5000		98	40-140	7	50	
Surrogate: Decachlorobiphenyl	*0.0237*		mg/kg wet	*0.02500*		*95*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0221*		mg/kg wet	*0.02500*		*88*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0239*		mg/kg wet	*0.02500*		*95*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0226*		mg/kg wet	*0.02500*		*91*	*30-150*			
Matrix Spike **Source: 0710550-01**										
Aroclor 1016	0.752	0.0687	mg/kg dry	0.6873	ND	109	40-140			
Aroclor 1260	0.696	0.0687	mg/kg dry	0.6873	0.134	82	40-140			
Surrogate: Decachlorobiphenyl	*0.0308*		mg/kg dry	*0.03436*		*90*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0293*		mg/kg dry	*0.03436*		*85*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0319*		mg/kg dry	*0.03436*		*93*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0303*		mg/kg dry	*0.03436*		*88*	*30-150*			
Matrix Spike Dup **Source: 0710550-01**										
Aroclor 1016	0.786	0.0644	mg/kg dry	0.6441	ND	122	40-140	4	50	
Aroclor 1260	0.778	0.0644	mg/kg dry	0.6441	0.134	100	40-140	11	50	
Surrogate: Decachlorobiphenyl	*0.0301*		mg/kg dry	*0.03221*		*93*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0415*		mg/kg dry	*0.03221*		*129*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0316*		mg/kg dry	*0.03221*		*98*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0373*		mg/kg dry	*0.03221*		*116*	*30-150*			
8100M Total Petroleum Hydrocarbons										
Batch BK70113 - 3541										

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone

ESS Laboratory Work Order: 0710550

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8100M Total Petroleum Hydrocarbons										
Batch BK70113 - 3541										
Blank										
Decane (C10)	ND	0.25	mg/kg wet							
Docosane (C22)	ND	0.25	mg/kg wet							
Dodecane (C12)	ND	0.25	mg/kg wet							
Eicosane (C20)	ND	0.25	mg/kg wet							
Hexacosane (C26)	ND	0.25	mg/kg wet							
Hexadecane (C16)	ND	0.25	mg/kg wet							
Nonadecane (C19)	ND	0.25	mg/kg wet							
Nonane (C9)	ND	0.25	mg/kg wet							
Octacosane (C28)	ND	0.25	mg/kg wet							
Octadecane (C18)	ND	0.25	mg/kg wet							
Tetracosane (C24)	ND	0.25	mg/kg wet							
Tetradecane (C14)	ND	0.25	mg/kg wet							
Total Petroleum Hydrocarbons	ND	37.5	mg/kg wet							
Triacontane (C30)	ND	0.25	mg/kg wet							
Surrogate: O-Terphenyl	*4.40*		mg/kg wet	*5.000*		*88*	*40-140*			
LCS										
Decane (C10)	1.43	0.25	mg/kg wet	2.500		57	40-140			
Docosane (C22)	1.95	0.25	mg/kg wet	2.500		78	40-140			
Dodecane (C12)	1.64	0.25	mg/kg wet	2.500		66	40-140			
Eicosane (C20)	1.95	0.25	mg/kg wet	2.500		78	40-140			
Hexacosane (C26)	1.93	0.25	mg/kg wet	2.500		77	40-140			
Hexadecane (C16)	1.88	0.25	mg/kg wet	2.500		75	40-140			
Nonadecane (C19)	2.10	0.25	mg/kg wet	2.500		84	40-140			
Nonane (C9)	1.02	0.25	mg/kg wet	2.500		41	30-140			
Octacosane (C28)	1.91	0.25	mg/kg wet	2.500		77	40-140			
Octadecane (C18)	1.98	0.25	mg/kg wet	2.500		79	40-140			
Tetracosane (C24)	1.99	0.25	mg/kg wet	2.500		79	40-140			
Tetradecane (C14)	1.78	0.25	mg/kg wet	2.500		71	40-140			
Triacontane (C30)	1.86	0.25	mg/kg wet	2.500		75	40-140			
Surrogate: O-Terphenyl	*3.74*		mg/kg wet	*5.000*		*75*	*40-140*			
LCS Dup										
Decane (C10)	1.44	0.25	mg/kg wet	2.500		57	40-140	0.3	50	
Docosane (C22)	1.81	0.25	mg/kg wet	2.500		72	40-140	7	50	
Dodecane (C12)	1.57	0.25	mg/kg wet	2.500		63	40-140	4	50	
Eicosane (C20)	1.78	0.25	mg/kg wet	2.500		71	40-140	9	50	
Hexacosane (C26)	1.78	0.25	mg/kg wet	2.500		71	40-140	8	50	
Hexadecane (C16)	1.74	0.25	mg/kg wet	2.500		69	40-140	8	50	
Nonadecane (C19)	1.93	0.25	mg/kg wet	2.500		77	40-140	8	50	
Nonane (C9)	1.13	0.25	mg/kg wet	2.500		45	30-140	10	50	
Octacosane (C28)	1.76	0.25	mg/kg wet	2.500		70	40-140	9	50	
Octadecane (C18)	1.82	0.25	mg/kg wet	2.500		73	40-140	9	50	
Tetracosane (C24)	1.82	0.25	mg/kg wet	2.500		73	40-140	9	50	
Tetradecane (C14)	1.67	0.25	mg/kg wet	2.500		67	40-140	7	50	

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone

ESS Laboratory Work Order: 0710550

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8100M Total Petroleum Hydrocarbons										
Batch BK70113 - 3541										
Triacontane (C30)	1.70	0.25	mg/kg wet	2.500		68	40-140	9	50	
Surrogate: O-Terphenyl	*3.46*		mg/kg wet	*5.000*		*69*	*40-140*			
8270C Semi-Volatile Organic Compounds										
Batch BK70124 - 3546										
Blank										
1,1-Biphenyl	ND	0.250	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.250	mg/kg wet							
1,2-Dichlorobenzene	ND	0.250	mg/kg wet							
1,3-Dichlorobenzene	ND	0.250	mg/kg wet							
1,4-Dichlorobenzene	ND	0.250	mg/kg wet							
2,3,4,6-Tetrachlorophenol	ND	1.25	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.250	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.250	mg/kg wet							
2,4-Dichlorophenol	ND	0.250	mg/kg wet							
2,4-Dimethylphenol	ND	0.250	mg/kg wet							
2,4-Dinitrophenol	ND	1.25	mg/kg wet							
2,4-Dinitrotoluene	ND	0.250	mg/kg wet							
2,6-Dinitrotoluene	ND	0.250	mg/kg wet							
2-Chloronaphthalene	ND	0.250	mg/kg wet							
2-Chlorophenol	ND	0.250	mg/kg wet							
2-Methylnaphthalene	ND	0.250	mg/kg wet							
2-Methylphenol	ND	0.250	mg/kg wet							
2-Nitroaniline	ND	0.250	mg/kg wet							
2-Nitrophenol	ND	0.250	mg/kg wet							
3,3´-Dichlorobenzidine	ND	0.500	mg/kg wet							
3+4-Methylphenol	ND	0.500	mg/kg wet							
3-Nitroaniline	ND	0.250	mg/kg wet							
4,6-Dinitro-2-Methylphenol	ND	1.25	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.250	mg/kg wet							
4-Chloro-3-Methylphenol	ND	0.250	mg/kg wet							
4-Chloroaniline	ND	0.500	mg/kg wet							
4-Chloro-phenyl-phenyl ether	ND	0.250	mg/kg wet							
4-Nitroaniline	ND	0.250	mg/kg wet							
4-Nitrophenol	ND	1.25	mg/kg wet							
Acenaphthene	ND	0.250	mg/kg wet							
Acenaphthylene	ND	0.250	mg/kg wet							
Acetophenone	ND	0.500	mg/kg wet							
Aniline	ND	1.25	mg/kg wet							
Anthracene	ND	0.250	mg/kg wet							
Azobenzene	ND	0.250	mg/kg wet							
Benzo(a)anthracene	ND	0.250	mg/kg wet							
Benzo(a)pyrene	ND	0.125	mg/kg wet							
Benzo(b)fluoranthene	ND	0.250	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone

ESS Laboratory Work Order: 0710550

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
Batch BK70124 - 3546										
Benzo(k)fluoranthene	ND	0.250	mg/kg wet							
Benzoic Acid	ND	1.25	mg/kg wet							
Benzyl Alcohol	ND	0.250	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.250	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.250	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.250	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.250	mg/kg wet							
Butylbenzylphthalate	ND	0.250	mg/kg wet							
Carbazole	ND	0.250	mg/kg wet							
Chrysene	ND	0.125	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.125	mg/kg wet							
Dibenzofuran	ND	0.250	mg/kg wet							
Diethylphthalate	ND	0.250	mg/kg wet							
Dimethylphthalate	ND	0.250	mg/kg wet							
Di-n-butylphthalate	ND	0.250	mg/kg wet							
Di-n-octylphthalate	ND	0.250	mg/kg wet							
Fluoranthene	ND	0.250	mg/kg wet							
Fluorene	ND	0.250	mg/kg wet							
Hexachlorobenzene	ND	0.125	mg/kg wet							
Hexachlorobutadiene	ND	0.250	mg/kg wet							
Hexachlorocyclopentadiene	ND	1.25	mg/kg wet							
Hexachloroethane	ND	0.250	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.250	mg/kg wet							
Isophorone	ND	0.250	mg/kg wet							
Naphthalene	ND	0.250	mg/kg wet							
Nitrobenzene	ND	0.250	mg/kg wet							
N-Nitrosodimethylamine	ND	0.250	mg/kg wet							
N-Nitroso-Di-n-Propylamine	ND	0.250	mg/kg wet							
N-nitrosodiphenylamine	ND	0.250	mg/kg wet							
Pentachlorophenol	ND	1.25	mg/kg wet							
Phenanthrene	ND	0.250	mg/kg wet							
Phenol	ND	0.250	mg/kg wet							
Pyrene	ND	0.250	mg/kg wet							
Pyridine	ND	1.25	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*1.88*		mg/kg wet	*2.500*		*75*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*3.49*		mg/kg wet	*3.750*		*93*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*2.56*		mg/kg wet	*3.750*		*68*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*1.95*		mg/kg wet	*2.500*		*78*	*30-130*			
Surrogate: 2-Fluorophenol	*2.62*		mg/kg wet	*3.750*		*70*	*30-130*			
Surrogate: Nitrobenzene-d5	*1.83*		mg/kg wet	*2.500*		*73*	*30-130*			
Surrogate: Phenol-d6	*2.62*		mg/kg wet	*3.750*		*70*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.46*		mg/kg wet	*2.500*		*99*	*30-130*			
LCS										
1,1-Biphenyl	2.22	0.250	mg/kg wet	2.500		89	40-140			
1,2,4-Trichlorobenzene	1.81	0.250	mg/kg wet	2.500		72	40-140			
1,2-Dichlorobenzene	1.72	0.250	mg/kg wet	2.500		69	40-140			

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone

ESS Laboratory Work Order: 0710550

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
Batch BK70124 - 3546										
1,3-Dichlorobenzene	1.69	0.250	mg/kg wet	2.500		67	40-140			
1,4-Dichlorobenzene	1.74	0.250	mg/kg wet	2.500		70	40-140			
2,3,4,6-Tetrachlorophenol	2.35	1.25	mg/kg wet	2.500		94	30-130			
2,4,5-Trichlorophenol	2.31	0.250	mg/kg wet	2.500		92	30-130			
2,4,6-Trichlorophenol	2.18	0.250	mg/kg wet	2.500		87	30-130			
2,4-Dichlorophenol	2.08	0.250	mg/kg wet	2.500		83	30-130			
2,4-Dimethylphenol	1.87	0.250	mg/kg wet	2.500		75	30-130			
2,4-Dinitrophenol	2.17	1.25	mg/kg wet	2.500		87	30-130			
2,4-Dinitrotoluene	2.38	0.250	mg/kg wet	2.500		95	40-140			
2,6-Dinitrotoluene	2.09	0.250	mg/kg wet	2.500		84	40-140			
2-Chloronaphthalene	2.26	0.250	mg/kg wet	2.500		90	40-140			
2-Chlorophenol	1.70	0.250	mg/kg wet	2.500		68	30-130			
2-Methylnaphthalene	1.84	0.250	mg/kg wet	2.500		74	40-140			
2-Methylphenol	1.94	0.250	mg/kg wet	2.500		78	30-130			
2-Nitroaniline	2.33	0.250	mg/kg wet	2.500		93	40-140			
2-Nitrophenol	1.87	0.250	mg/kg wet	2.500		75	30-130			
3,3'-Dichlorobenzidine	2.43	0.500	mg/kg wet	2.500		97	40-140			
3+4-Methylphenol	3.98	0.500	mg/kg wet	5.000		80	30-130			
3-Nitroaniline	2.17	0.250	mg/kg wet	2.500		87	40-140			
4,6-Dinitro-2-Methylphenol	2.46	1.25	mg/kg wet	2.500		99	30-130			
4-Bromophenyl-phenylether	2.33	0.250	mg/kg wet	2.500		93	40-140			
4-Chloro-3-Methylphenol	2.09	0.250	mg/kg wet	2.500		84	30-130			
4-Chloroaniline	1.46	0.500	mg/kg wet	2.500		59	40-140			
4-Chloro-phenyl-phenyl ether	2.17	0.250	mg/kg wet	2.500		87	40-140			
4-Nitroaniline	2.58	0.250	mg/kg wet	2.500		103	40-140			
4-Nitrophenol	2.35	1.25	mg/kg wet	2.500		94	30-130			
Acenaphthene	2.18	0.250	mg/kg wet	2.500		87	40-140			
Acenaphthylene	1.94	0.250	mg/kg wet	2.500		78	40-140			
Acetophenone	1.93	0.500	mg/kg wet	2.500		77	40-140			
Aniline	1.40	1.25	mg/kg wet	2.500		56	40-140			
Anthracene	2.25	0.250	mg/kg wet	2.500		90	40-140			
Azobenzene	2.04	0.250	mg/kg wet	2.500		81	40-140			
Benzo(a)anthracene	2.39	0.250	mg/kg wet	2.500		96	40-140			
Benzo(a)pyrene	2.41	0.125	mg/kg wet	2.500		96	40-140			
Benzo(b)fluoranthene	2.25	0.250	mg/kg wet	2.500		90	40-140			
Benzo(g,h,i)perylene	2.27	0.250	mg/kg wet	2.500		91	40-140			
Benzo(k)fluoranthene	2.44	0.250	mg/kg wet	2.500		98	40-140			
Benzoic Acid	2.10	1.25	mg/kg wet	2.500		84	40-140			
Benzyl Alcohol	1.96	0.250	mg/kg wet	2.500		78	40-140			
bis(2-Chloroethoxy)methane	1.55	0.250	mg/kg wet	2.500		62	40-140			
bis(2-Chloroethyl)ether	1.92	0.250	mg/kg wet	2.500		77	40-140			
bis(2-chloroisopropyl)Ether	2.17	0.250	mg/kg wet	2.500		87	40-140			
bis(2-Ethylhexyl)phthalate	2.44	0.250	mg/kg wet	2.500		98	40-140			
Butylbenzylphthalate	2.46	0.250	mg/kg wet	2.500		98	40-140			
Carbazole	2.38	0.250	mg/kg wet	2.500		95	40-140			
Chrysene	2.44	0.125	mg/kg wet	2.500		98	40-140			

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone

ESS Laboratory Work Order: 0710550

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
Batch BK70124 - 3546										
Dibenzo(a,h)Anthracene	2.30	0.125	mg/kg wet	2.500		92	40-140			
Dibenzofuran	2.10	0.250	mg/kg wet	2.500		84	40-140			
Diethylphthalate	2.37	0.250	mg/kg wet	2.500		95	40-140			
Dimethylphthalate	2.21	0.250	mg/kg wet	2.500		89	40-140			
Di-n-butylphthalate	2.37	0.250	mg/kg wet	2.500		95	40-140			
Di-n-octylphthalate	2.52	0.250	mg/kg wet	2.500		101	40-140			
Fluoranthene	2.46	0.250	mg/kg wet	2.500		98	40-140			
Fluorene	2.09	0.250	mg/kg wet	2.500		83	40-140			
Hexachlorobenzene	2.35	0.125	mg/kg wet	2.500		94	40-140			
Hexachlorobutadiene	1.92	0.250	mg/kg wet	2.500		77	40-140			
Hexachlorocyclopentadiene	1.67	1.25	mg/kg wet	2.500		67	40-140			
Hexachloroethane	1.61	0.250	mg/kg wet	2.500		64	40-140			
Indeno(1,2,3-cd)Pyrene	2.30	0.250	mg/kg wet	2.500		92	40-140			
Isophorone	1.81	0.250	mg/kg wet	2.500		72	40-140			
Naphthalene	1.77	0.250	mg/kg wet	2.500		71	40-140			
Nitrobenzene	1.81	0.250	mg/kg wet	2.500		72	40-140			
N-Nitrosodimethylamine	0.958	0.250	mg/kg wet	2.500		38	40-140			B-
N-Nitroso-Di-n-Propylamine	1.98	0.250	mg/kg wet	2.500		79	40-140			
N-nitrosodiphenylamine	2.22	0.250	mg/kg wet	2.500		89	40-140			
Pentachlorophenol	2.32	1.25	mg/kg wet	2.500		93	30-130			
Phenanthrene	2.39	0.250	mg/kg wet	2.500		96	40-140			
Phenol	1.79	0.250	mg/kg wet	2.500		72	30-130			
Pyrene	2.40	0.250	mg/kg wet	2.500		96	40-140			
Pyridine	0.752	1.25	mg/kg wet	2.500		30	40-140			B-
Surrogate: 1,2-Dichlorobenzene-d4	*1.77*		mg/kg wet	*2.500*		*71*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*3.80*		mg/kg wet	*3.750*		*101*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*2.64*		mg/kg wet	*3.750*		*70*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*1.95*		mg/kg wet	*2.500*		*78*	*30-130*			
Surrogate: 2-Fluorophenol	*2.69*		mg/kg wet	*3.750*		*72*	*30-130*			
Surrogate: Nitrobenzene-d5	*1.79*		mg/kg wet	*2.500*		*72*	*30-130*			
Surrogate: Phenol-d6	*2.74*		mg/kg wet	*3.750*		*73*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.44*		mg/kg wet	*2.500*		*98*	*30-130*			
LCS Dup										
1,1-Biphenyl	2.18	0.250	mg/kg wet	2.500		87	40-140	2	30	
1,2,4-Trichlorobenzene	1.95	0.250	mg/kg wet	2.500		78	40-140	8	30	
1,2-Dichlorobenzene	1.90	0.250	mg/kg wet	2.500		76	40-140	10	30	
1,3-Dichlorobenzene	1.81	0.250	mg/kg wet	2.500		72	40-140	7	30	
1,4-Dichlorobenzene	1.88	0.250	mg/kg wet	2.500		75	40-140	8	30	
2,3,4,6-Tetrachlorophenol	2.52	1.25	mg/kg wet	2.500		101	30-130	7	30	
2,4,5-Trichlorophenol	2.47	0.250	mg/kg wet	2.500		99	30-130	7	30	
2,4,6-Trichlorophenol	2.38	0.250	mg/kg wet	2.500		95	30-130	9	30	
2,4-Dichlorophenol	2.23	0.250	mg/kg wet	2.500		89	30-130	7	30	
2,4-Dimethylphenol	1.97	0.250	mg/kg wet	2.500		79	30-130	5	30	
2,4-Dinitrophenol	2.29	1.25	mg/kg wet	2.500		92	30-130	5	30	
2,4-Dinitrotoluene	2.44	0.250	mg/kg wet	2.500		98	40-140	3	30	
2,6-Dinitrotoluene	2.31	0.250	mg/kg wet	2.500		92	40-140	10	30	

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone

ESS Laboratory Work Order: 0710550

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
Batch BK70124 - 3546										
2-Chloronaphthalene	2.45	0.250	mg/kg wet	2.500		98	40-140	8	30	
2-Chlorophenol	1.78	0.250	mg/kg wet	2.500		71	30-130	5	30	
2-Methylnaphthalene	2.09	0.250	mg/kg wet	2.500		83	40-140	12	30	
2-Methylphenol	1.98	0.250	mg/kg wet	2.500		79	30-130	2	30	
2-Nitroaniline	2.53	0.250	mg/kg wet	2.500		101	40-140	8	30	
2-Nitrophenol	2.14	0.250	mg/kg wet	2.500		86	30-130	14	30	
3,3'-Dichlorobenzidine	2.40	0.500	mg/kg wet	2.500		96	40-140	1	30	
3+4-Methylphenol	4.02	0.500	mg/kg wet	5.000		80	30-130	0.9	30	
3-Nitroaniline	2.34	0.250	mg/kg wet	2.500		94	40-140	8	30	
4,6-Dinitro-2-Methylphenol	2.61	1.25	mg/kg wet	2.500		104	30-130	6	30	
4-Bromophenyl-phenylether	2.50	0.250	mg/kg wet	2.500		100	40-140	7	30	
4-Chloro-3-Methylphenol	2.22	0.250	mg/kg wet	2.500		89	30-130	6	30	
4-Chloroaniline	1.58	0.500	mg/kg wet	2.500		63	40-140	8	30	
4-Chloro-phenyl-phenyl ether	2.36	0.250	mg/kg wet	2.500		94	40-140	8	30	
4-Nitroaniline	2.75	0.250	mg/kg wet	2.500		110	40-140	6	30	
4-Nitrophenol	2.47	1.25	mg/kg wet	2.500		99	30-130	5	30	
Acenaphthene	2.22	0.250	mg/kg wet	2.500		89	40-140	2	30	
Acenaphthylene	2.05	0.250	mg/kg wet	2.500		82	40-140	5	30	
Acetophenone	2.01	0.500	mg/kg wet	2.500		80	40-140	4	30	
Aniline	1.42	1.25	mg/kg wet	2.500		57	40-140	1	30	
Anthracene	2.37	0.250	mg/kg wet	2.500		95	40-140	5	30	
Azobenzene	2.07	0.250	mg/kg wet	2.500		83	40-140	2	30	
Benzo(a)anthracene	2.52	0.250	mg/kg wet	2.500		101	40-140	6	30	
Benzo(a)pyrene	2.52	0.125	mg/kg wet	2.500		101	40-140	5	30	
Benzo(b)fluoranthene	2.41	0.250	mg/kg wet	2.500		96	40-140	7	30	
Benzo(g,h,i)perylene	2.44	0.250	mg/kg wet	2.500		98	40-140	7	30	
Benzo(k)fluoranthene	2.11	0.250	mg/kg wet	2.500		84	40-140	15	30	
Benzoic Acid	2.17	1.25	mg/kg wet	2.500		87	40-140	3	30	
Benzyl Alcohol	2.00	0.250	mg/kg wet	2.500		80	40-140	2	30	
bis(2-Chloroethoxy)methane	1.72	0.250	mg/kg wet	2.500		69	40-140	10	30	
bis(2-Chloroethyl)ether	1.58	0.250	mg/kg wet	2.500		63	40-140	20	30	
bis(2-chloroisopropyl)Ether	2.18	0.250	mg/kg wet	2.500		87	40-140	0.2	30	
bis(2-Ethylhexyl)phthalate	2.51	0.250	mg/kg wet	2.500		100	40-140	3	30	
Butylbenzylphthalate	2.52	0.250	mg/kg wet	2.500		101	40-140	3	30	
Carbazole	2.55	0.250	mg/kg wet	2.500		102	40-140	7	30	
Chrysene	2.46	0.125	mg/kg wet	2.500		98	40-140	0.7	30	
Dibenzo(a,h)Anthracene	2.37	0.125	mg/kg wet	2.500		95	40-140	3	30	
Dibenzofuran	2.21	0.250	mg/kg wet	2.500		88	40-140	5	30	
Diethylphthalate	2.50	0.250	mg/kg wet	2.500		100	40-140	5	30	
Dimethylphthalate	2.39	0.250	mg/kg wet	2.500		96	40-140	8	30	
Di-n-butylphthalate	2.47	0.250	mg/kg wet	2.500		99	40-140	4	30	
Di-n-octylphthalate	2.64	0.250	mg/kg wet	2.500		106	40-140	5	30	
Fluoranthene	2.50	0.250	mg/kg wet	2.500		100	40-140	2	30	
Fluorene	2.26	0.250	mg/kg wet	2.500		90	40-140	8	30	
Hexachlorobenzene	2.46	0.125	mg/kg wet	2.500		98	40-140	4	30	
Hexachlorobutadiene	1.95	0.250	mg/kg wet	2.500		78	40-140	1	30	

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone

ESS Laboratory Work Order: 0710550

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
Batch BK70124 - 3546										
Hexachlorocyclopentadiene	1.84	1.25	mg/kg wet	2.500		73	40-140	10	30	
Hexachloroethane	1.71	0.250	mg/kg wet	2.500		69	40-140	6	30	
Indeno(1,2,3-cd)Pyrene	2.38	0.250	mg/kg wet	2.500		95	40-140	3	30	
Isophorone	2.01	0.250	mg/kg wet	2.500		80	40-140	11	30	
Naphthalene	1.98	0.250	mg/kg wet	2.500		79	40-140	11	30	
Nitrobenzene	2.07	0.250	mg/kg wet	2.500		83	40-140	14	30	
N-Nitrosodimethylamine	0.958	0.250	mg/kg wet	2.500		38	40-140	0	30	B-
N-Nitroso-Di-n-Propylamine	1.92	0.250	mg/kg wet	2.500		77	40-140	3	30	
N-nitrosodiphenylamine	2.43	0.250	mg/kg wet	2.500		97	40-140	9	30	
Pentachlorophenol	2.46	1.25	mg/kg wet	2.500		98	30-130	6	30	
Phenanthrene	2.50	0.250	mg/kg wet	2.500		100	40-140	4	30	
Phenol	1.80	0.250	mg/kg wet	2.500		72	30-130	0.5	30	
Pyrene	2.52	0.250	mg/kg wet	2.500		101	40-140	5	30	
Pyridine	0.840	1.25	mg/kg wet	2.500		34	40-140	11	30	B-
Surrogate: 1,2-Dichlorobenzene-d4	*1.81*		mg/kg wet	*2.500*		*72*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*3.82*		mg/kg wet	*3.750*		*102*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*2.65*		mg/kg wet	*3.750*		*71*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/kg wet	*2.500*		*86*	*30-130*			
Surrogate: 2-Fluorophenol	*2.68*		mg/kg wet	*3.750*		*71*	*30-130*			
Surrogate: Nitrobenzene-d5	*1.96*		mg/kg wet	*2.500*		*78*	*30-130*			
Surrogate: Phenol-d6	*2.86*		mg/kg wet	*3.750*		*76*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.54*		mg/kg wet	*2.500*		*102*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone ESS Laboratory Work Order: 0710550

Notes and Definitions

Z-08	See Attached
U	Analyte included in the analysis, but not detected
IM	Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present).
D	Diluted.
C+	Continuing Calibration recovery is above upper control limit.
C-	Continuing Calibration recovery is below lower control limit.
B-	Blank Spike recovery is below lower control limit.
ND	Analyte NOT DETECTED above the detection limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.

CERTIFICATE OF ANALYSIS

Client Name: EA Engineering, Science, and Technology
Client Project ID: Blackstone

ESS Laboratory Work Order: 0710550

ESS LABORATORY CERTIFICATIONS

U.S. Army Corps of Engineers
Soil and Water

Navy Installation Restoration QA Program
Soil and Water

Rhode Island: A-179

Connecticut: PH-0750

Maine: RI002

Massachusetts: M-RI002

New Hampshire (NELAP accredited): 242405
Potable Water
Non Potable Water

New York (NELAP accredited): 11313
Potable Water
Non Potable Water
Solid and Hazardous Waste

United States Department of Agriculture
Soil Permit: S-54210

New Jersey (NELAP accredited): RI002
Potable Water
Non Potable Water
Soil and Hazardous Waste

Maryland: 301
Potable Water

ESS Laboratory CTS

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page _____ of _____

Turn Time ___ Standard Other 5day
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
MA (RI) CT NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 0710550

Electronic Deliverable ___ Yes ___ No
Format: Excel__ Access__ PDF__ Other_____

Co. Name | Project # | Project Name (20 Char. or less)

Contact Person: Jena Paola | Address

City | State | Zip | PO#

Telephone # | Fax # | Email Address

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	8260 VOA / 524.2	624 / 8021 MTBE/BTEX	8015 GRO / VPH w/targets	8100 TPH / 8015 DRO	EPH w/o PAHs / EPH w/PAHs	EPH 4 Diesel	8081 Pesticides / 8082 PCB	608 Pesticides / 608 PCB	8270 SVOA / 625 / PAH 8270	RCRA5 / RCRA8 / PP13 / TAL23	TCLP-RCRA8 / NBC7	MCP-METALS (13) / MCP-METALS (13) w/Hg	Grain Size	% Moisture
	10-31-07	0915	X		S	0710550-01	1	1	G													X	X
	10-31-07	1010	X		S	↓ -02	1	1	G													X	X
	10-31-07	1115	X		S	0710550-03	1	1	G													X	X

Container Type: P-Poly (G-Glass) S-Sterile V-VOA
Matrix: (S-Soil) SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No
Seals Intact ___ Yes ___ No NA: ___
Cooler Temp: _____

Internal Use Only
[ ] Pickup
[ ] Technicians _____

Preservation Code: (1- NP), 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by:

Comments: * NO Hydrometer REPORT

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
J. Dawes	10-31 07 1630	JIM MCMANUS	10-31-07	JIM MCMANUS	11-8-07		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 B

ESS Laboratory

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CHAIN OF CUSTODY

Page _____ of _____

Turn Time ✓ Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____
State where samples were collected from:
MA (RI) CT NH NJ NY ME Other _____
Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 0710550

Electronic Deliverable ✓ Yes ___ No
Format: Excel__ Access__ PDF ✓ Other_____

Co. Name	Project #	Project Name (20 Char. or less)
FA Engineering	62130.08	Blackstone
Contact Person	**Address**	
Sam Whitin	2350 Post Rd.	
City	**State**	**Zip**
Warwick	RI	02886
Telephone #	**Fax #**	**Email Address**
736-3440	736-3423	swhitin@eaest.com

PO#

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	8260 VOA	624	524.2	8021 MTBE/BTEX	8015 GRO	VPH w/targets	8015 DRO	8100 TPH	EPH w/PAHs	EPH w/o PAHs	EPH 4 Diesel	8081 Pesticides	608 Pesticides	8082 PCB	608 PCB	8270 SVOA	625	PAH 8270	RCRA5	RCRA8	PP13	TAL23	TCLP	NBC7	MCP-METALS (13)	MCP-METALS (13) w/Hg	As, Cd, Cr, Cu, Pb, Hg, Ni, Zn	Grain size (inc. % moisture)			
1	10/31/07	0915	X		S	Black - Main - Up	1	3	G							X						X		X								X				X	X			
2	10/31/07	1010	X		S	Black Slater - Up	1	3	G							X						X		X								X				X	X			
3	10/31/07	1115	X		S	Black Valley - Up	1	3	G							X						X		X								X				X	X			
				TTD																																			
				10-31-07																																			

Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No Internal Use Only
Seals Intact ___ Yes ___ No NA: ___ [ ] Pickup
Cooler Temp: 5.2 [ ] Technicians _____

Preservation Code: 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: S. Whitin & M. Richardson

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	10/31/07 1525		10-31-07 1525				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 B