Groundwater Analytical, Inc.
P.O.Box 1200
228 Main Street
Buzzards Bay, MA 02532

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GROUNDWATER ANALYTICAL

e-mail

To:	Nicole Vesper	**From:**	e-mail reporting GWA
	ENTRIX, Inc.	**Pages:**	40
e-mail:	nvesper@entrix.com	**Date:**	08/30/2004 11:46:46 AM
Re:	75723	**CC:**	

NOTE

The format or contents of this e-mail transmission may not meet all applicable National Environmental Laboratory Accreditation Conference (NELAC) Standards for data reporting.

- **Comments:** Project Number: 75723

Confidential

GROUNDWATER ANALYTICAL

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228 Main Street
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August 30, 2004

Ms. Nicole Vesper
ENTRIX, Inc.
10 Corporate Circle
Suite 300
New Castle, DE 19720

LABORATORY REPORT

Project: **Buzzards Bay/7079608-2000**
Lab ID: **75723**
Received: **08-11-04**

Dear Nicole:

Enclosed are the analytical results for the above referenced project. The project was processed for Standard turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC standards, except as may be specifically noted, or described in the project narrative. This report may only be used or reproduced in its entirety.

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

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Eric H. Jensen
Operations Manager

EHJ/smd
Enclosures

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project: **Buzzards Bay/7079608-2000**
Client: **ENTRIX, Inc.**
Lab ID: **75723**

Delivery: **Hand**
Airbill: **n/a**
Lab Receipt: **08-11-04**

Temperature: **5'C**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID	Matrix	Sampled	Method	Notes
75723-1	LI-DS-S01	Soil	8/11/04 8:30	EPA 8270C PAHs Low Level SIM MA DEP EPH Carbon Ranges Only	

Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C493945	120 mL Amber Glass	Proline	BX11094	None	n/a	n/a	n/a

Lab ID	Field ID	Matrix	Sampled	Method	Notes
75723-2	LI-DS-S02	Soil	8/11/04 9:30	EPA 8270C PAHs Low Level SIM MA DEP EPH Carbon Ranges Only	

Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C493944	120 mL Amber Glass	Proline	BX11094	None	n/a	n/a	n/a

Lab ID	Field ID	Matrix	Sampled	Method	Notes
75723-3	LI-DS-S03	Soil	8/11/04 10:10	EPA 8270C PAHs Low Level SIM MA DEP EPH Carbon Ranges Only	

Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C493948	120 mL Amber Glass	Proline	BX11094	None	n/a	n/a	n/a

Lab ID	Field ID	Matrix	Sampled	Method	Notes
75723-4	LI-DS-S04	Soil	8/11/04 10:50	EPA 8270C PAHs Low Level SIM MA DEP EPH Carbon Ranges Only	

Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C493946	120 mL Amber Glass	Proline	BX11094	None	n/a	n/a	n/a

Lab ID	Field ID	Matrix	Sampled	Method	Notes
75723-5	ACD-S01	Soil	8/11/04 11:09	EPA 8270C PAHs Low Level SIM MA DEP EPH Carbon Ranges Only	

Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C493951	120 mL Amber Glass	Proline	BX11094	None	n/a	n/a	n/a

Lab ID	Field ID	Matrix	Sampled	Method	Notes
75723-6	ACD-S02	Soil	8/11/04 11:20	EPA 8270C PAHs Low Level SIM MA DEP EPH Carbon Ranges Only	

Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C493955	120 mL Amber Glass	Proline	BX11094	None	n/a	n/a	n/a

Lab ID	Field ID	Matrix	Sampled	Method	Notes
75723-7	ACD-S03	Soil	8/11/04 11:28	EPA 8270C PAHs Low Level SIM MA DEP EPH Carbon Ranges Only	

Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C493956	120 mL Amber Glass	Proline	BX11094	None	n/a	n/a	n/a

Lab ID	Field ID	Matrix	Sampled	Method	Notes
75723-8	PB-SS-S01	Soil	8/11/04 14:20	EPA 8270C PAHs Low Level SIM MA DEP EPH Carbon Ranges Only	

Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C493958	120 mL Amber Glass	Proline	BX11094	None	n/a	n/a	n/a

Lab ID	Field ID	Matrix	Sampled	Method	Notes
75723-9	BSS-01	Soil	8/11/04 0:00	EPA 8270C PAHs Low Level SIM MA DEP EPH Carbon Ranges Only	

Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C493960	120 mL Amber Glass	Proline	BX11094	None	n/a	n/a	n/a

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project: **Buzzards Bay/7079608-2000**
Client: **ENTRIX, Inc.**
Lab ID: **75723**

Delivery: **Hand**
Airbill: **n/a**
Lab Receipt: **08-11-04**

Temperature: **5'C**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID	Matrix	Sampled	Method	Notes
75723-10	PB-SS-S02	Soil	8/11/04 14:30	EPA 8270C PAHs Low Level SIM MA DEP EPH Carbon Ranges Only	

Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C493957	120 mL Amber Glass	Proline	BX11094	None	n/a	n/a	n/a

Lab ID	Field ID	Matrix	Sampled	Method	Notes
75723-11	PB-SS-S03	Soil	8/11/04 14:45	EPA 8270C PAHs Low Level SIM MA DEP EPH Carbon Ranges Only	

Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C493959	120 mL Amber Glass	Proline	BX11094	None	n/a	n/a	n/a

Lab ID	Field ID	Matrix	Sampled	Method	Notes
75723-12	PB-SS-S04	Soil	8/11/04 14:55	EPA 8270C PAHs Low Level SIM MA DEP EPH Carbon Ranges Only	

Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C458929	120 mL Amber Glass	Proline	BX12786	None	n/a	n/a	n/a

Lab ID	Field ID	Matrix	Sampled	Method	Notes
75723-13	PB-DS-S04	Soil	8/11/04 15:12	EPA 8270C PAHs Low Level SIM MA DEP EPH Carbon Ranges Only	

Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C458939	120 mL Amber Glass	Proline	BX12786	None	n/a	n/a	n/a

Lab ID	Field ID	Matrix	Sampled	Method	Notes
75723-14	PB-DS-S03	Soil	8/11/04 15:30	EPA 8270C PAHs Low Level SIM MA DEP EPH Carbon Ranges Only	

Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C458927	120 mL Amber Glass	Proline	BX12786	None	n/a	n/a	n/a

Lab ID	Field ID	Matrix	Sampled	Method	Notes
75723-15	PB-DS-S02	Soil	8/11/04 15:42	EPA 8270C PAHs Low Level SIM MA DEP EPH Carbon Ranges Only	

Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C458944	120 mL Amber Glass	Proline	BX12786	None	n/a	n/a	n/a

Lab ID	Field ID	Matrix	Sampled	Method	Notes
75723-16	PB-DS-S01	Soil	8/11/04 15:53	EPA 8270C PAHs Low Level SIM MA DEP EPH Carbon Ranges Only	

Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C458933	120 mL Amber Glass	Proline	BX12786	None	n/a	n/a	n/a

GROUNDWATER ANALYTICAL

Data Certification

Project: **Buzzards Bay/7079608-2000**
Client: **ENTRIX, Inc.**

Lab ID: **75723**
Received: **08-11-04 18:00**

MA DEP Compendium of Analytical Methods

Project Location: **n/a** MA DEP RTN: **n/a**

This Form provides certifications for the following data set:

EPA 8270C: 75723-01,-02,-03,-04,-05,-06,-07,-08,-09,-10,-11,-12,-13,-14,-15,-16
MA DEP EPH: 75723-01,-02,-03,-04,-05,-06,-07,-08,-09,-10,-11,-12,-13,-14,-15,-16

Sample Matrices:	Groundwater ( )	Soil/Sediment (X)	Drinking Water ( )	Other ( )	
MCP SW-846 Methods Used	8260B ( )	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
	8270C (X)	8081A ( )	VPH ( )	6020 ( )	9012A[2] ( )
	8082 ( )	8021B ( )	EPH (X)	7000 S[3] ( )	Other ( )

As specified in MA DEP Compendium of Analytical Methods (check all that apply)

1. List Release Tracking Number (RTN), if known.
2. SW-846 Method 9012A (Equivalent to 9014) or MA DEP Physiologically Available Cyanide (PAC) Method
3. S - SW-846 Methods 7000 Series. List individual method and analyte.

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status.

A.	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	Yes
B.	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes
C.	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty," as described in Section 2.0 of the MA DEP document CAM VII A, *Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data*?	Yes
D.	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	Yes

A response to questions E and F below is required for "Presumptive Certainty" status.

E.	Were all QC performance standards and recommendations for the specified methods achieved?	No
F.	Were results for all analyte-list compounds/elements for the specified method(s) reported?	No

All No answers are addressed in the attached Project Narrative.

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

Signature: *[signature]* Position: Operations Manager

Printed Name: Eric H. Jensen Date: 08-30-04

GROUNDWATER ANALYTICAL

EPA Method 8270C
Polynuclear Aromatic Hydrocarbons by GC/MS-SIM

Field ID:	LI-DS-S01	Matrix:	Soil
Project:	Buzzards Bay/7079608-2000	Container:	120 mL Amber Glass
Client:	ENTRIX, Inc.	Preservation:	Cool
Laboratory ID:	75723-01	QC Batch ID:	SV-1481-P
Sampled:	08-11-04 08:30	Instrument ID:	MS-6 HP 6890
Received:	08-11-04 18:00	Sample Weight:	15 g
Cleaned Up:	08-24-04 16:00	Final Volume:	1 mL
Extracted:	08-25-04 16:00	Percent Solids:	56
Analyzed:	08-25-04 23:51	Dilution Factor:	1
Analyst:	JJT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/Kg	18
91-57-6	2-Methylnaphthalene	BRL		ug/Kg	18
208-96-8	Acenaphthylene	BRL		ug/Kg	18
83-32-9	Acenaphthene	BRL		ug/Kg	18
86-73-7	Fluorene	BRL		ug/Kg	18
85-01-8	Phenanthrene	BRL		ug/Kg	18
120-12-7	Anthracene	BRL		ug/Kg	18
206-44-0	Fluoranthene	33		ug/Kg	18
129-00-0	Pyrene	32		ug/Kg	18
56-55-3	Benzo[a]anthracene	BRL		ug/Kg	18
218-01-9	Chrysene	19		ug/Kg	18
205-99-2	Benzo[b]fluoranthene	BRL		ug/Kg	18
207-08-9	Benzo[k]fluoranthene	BRL		ug/Kg	18
50-32-8	Benzo[a]pyrene	19		ug/Kg	18
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/Kg	18
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/Kg	18
191-24-2	Benzo[g,h,i]perylene	BRL		ug/Kg	18

QC Surrogate Compound	Spiked	Measured	Recovery		QC Limits
Nitrobenzene-d5	1,200	700	59 %		30 - 130 %
2-Fluorobiphenyl	1,200	270	23 %	m	30 - 130 %
Terphenyl-d14	1,200	780	66 %		30 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Method modified by use of selected ion monitoring (SIM) in accordance with Section 7.5.5 of the method. Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3630C. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

m Surrogate recovery outside recommended limits due to sample matrix interference.

GROUNDWATER ANALYTICAL

EPA Method 8270C
Polynuclear Aromatic Hydrocarbons by GC/MS-SIM

Field ID:	LI-DS-S02	Matrix:	Soil
Project:	Buzzards Bay/7079608-2000	Container:	120 mL Amber Glass
Client:	ENTRIX, Inc.	Preservation:	Cool
Laboratory ID:	75723-02	QC Batch ID:	SV-1481-P
Sampled:	08-11-04 09:30	Instrument ID:	MS-6 HP 6890
Received:	08-11-04 18:00	Sample Weight:	15 g
Cleaned Up:	08-24-04 16:00	Final Volume:	1 mL
Extracted:	08-25-04 16:00	Percent Solids:	66
Analyzed:	08-26-04 00:30	Dilution Factor:	1
Analyst:	JJT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/Kg	15
91-57-6	2-Methylnaphthalene	BRL		ug/Kg	15
208-96-8	Acenaphthylene	BRL		ug/Kg	15
83-32-9	Acenaphthene	BRL		ug/Kg	15
86-73-7	Fluorene	BRL		ug/Kg	15
85-01-8	Phenanthrene	BRL		ug/Kg	15
120-12-7	Anthracene	BRL		ug/Kg	15
206-44-0	Fluoranthene	18		ug/Kg	15
129-00-0	Pyrene	24		ug/Kg	15
56-55-3	Benzo[a]anthracene	16		ug/Kg	15
218-01-9	Chrysene	16		ug/Kg	15
205-99-2	Benzo[b]fluoranthene	BRL		ug/Kg	15
207-08-9	Benzo[k]fluoranthene	BRL		ug/Kg	15
50-32-8	Benzo[a]pyrene	17		ug/Kg	15
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/Kg	15
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/Kg	15
191-24-2	Benzo[g,h,i]perylene	BRL		ug/Kg	15

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Nitrobenzene-d5	1,000	630	63 %	30 - 130 %
2-Fluorobiphenyl	1,000	340	34 %	30 - 130 %
Terphenyl-d14	1,000	700	70 %	30 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Method modified by use of selected ion monitoring (SIM) in accordance with Section 7.5.5 of the method. Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3630C. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8270C
Polynuclear Aromatic Hydrocarbons by GC/MS-SIM

Field ID:	LI-DS-S03	Matrix:	Soil
Project:	Buzzards Bay/7079608-2000	Container:	120 mL Amber Glass
Client:	ENTRIX, Inc.	Preservation:	Cool
Laboratory ID:	75723-03	QC Batch ID:	SV-1481-P
Sampled:	08-11-04 10:10	Instrument ID:	MS-6 HP 6890
Received:	08-11-04 18:00	Sample Weight:	16 g
Cleaned Up:	08-24-04 16:00	Final Volume:	1 mL
Extracted:	08-25-04 16:00	Percent Solids:	86
Analyzed:	08-26-04 01:09	Dilution Factor:	1
Analyst:	JJT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/Kg	11
91-57-6	2-Methylnaphthalene	BRL		ug/Kg	11
208-96-8	Acenaphthylene	BRL		ug/Kg	11
83-32-9	Acenaphthene	BRL		ug/Kg	11
86-73-7	Fluorene	BRL		ug/Kg	11
85-01-8	Phenanthrene	BRL		ug/Kg	11
120-12-7	Anthracene	BRL		ug/Kg	11
206-44-0	Fluoranthene	BRL		ug/Kg	11
129-00-0	Pyrene	BRL		ug/Kg	11
56-55-3	Benzo[a]anthracene	BRL		ug/Kg	11
218-01-9	Chrysene	BRL		ug/Kg	11
205-99-2	Benzo[b]fluoranthene	BRL		ug/Kg	11
207-08-9	Benzo[k]fluoranthene	BRL		ug/Kg	11
50-32-8	Benzo[a]pyrene	BRL		ug/Kg	11
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/Kg	11
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/Kg	11
191-24-2	Benzo[g,h,i]perylene	BRL		ug/Kg	11

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Nitrobenzene-d5	730	460	63 %	30 - 130 %
2-Fluorobiphenyl	730	360	49 %	30 - 130 %
Terphenyl-d14	730	590	81 %	30 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Method modified by use of selected ion monitoring (SIM) in accordance with Section 7.5.5 of the method. Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3630C. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8270C
Polynuclear Aromatic Hydrocarbons by GC/MS-SIM

Field ID:	LI-DS-S04	Matrix:	Soil
Project:	Buzzards Bay/7079608-2000	Container:	120 mL Amber Glass
Client:	ENTRIX, Inc.	Preservation:	Cool
Laboratory ID:	75723-04	QC Batch ID:	SV-1481-P
Sampled:	08-11-04 10:50	Instrument ID:	MS-6 HP 6890
Received:	08-11-04 18:00	Sample Weight:	16 g
Cleaned Up:	08-24-04 16:00	Final Volume:	1 mL
Extracted:	08-25-04 16:00	Percent Solids:	78
Analyzed:	08-26-04 01:48	Dilution Factor:	1
Analyst:	JJT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/Kg	12
91-57-6	2-Methylnaphthalene	BRL		ug/Kg	12
208-96-8	Acenaphthylene	BRL		ug/Kg	12
83-32-9	Acenaphthene	BRL		ug/Kg	12
86-73-7	Fluorene	BRL		ug/Kg	12
85-01-8	Phenanthrene	BRL		ug/Kg	12
120-12-7	Anthracene	BRL		ug/Kg	12
206-44-0	Fluoranthene	BRL		ug/Kg	12
129-00-0	Pyrene	BRL		ug/Kg	12
56-55-3	Benzo[a]anthracene	BRL		ug/Kg	12
218-01-9	Chrysene	BRL		ug/Kg	12
205-99-2	Benzo[b]fluoranthene	BRL		ug/Kg	12
207-08-9	Benzo[k]fluoranthene	BRL		ug/Kg	12
50-32-8	Benzo[a]pyrene	BRL		ug/Kg	12
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/Kg	12
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/Kg	12
191-24-2	Benzo[g,h,i]perylene	BRL		ug/Kg	12

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Nitrobenzene-d5	820	350	43 %	30 - 130 %
2-Fluorobiphenyl	820	330	40 %	30 - 130 %
Terphenyl-d14	820	620	75 %	30 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Method modified by use of selected ion monitoring (SIM) in accordance with Section 7.5.5 of the method. Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3630C. Results are reported on a dry weight basis.

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GROUNDWATER ANALYTICAL

EPA Method 8270C
Polynuclear Aromatic Hydrocarbons by GC/MS-SIM

Field ID:	ACD-S01	Matrix:	Soil
Project:	Buzzards Bay/7079608-2000	Container:	120 mL Amber Glass
Client:	ENTRIX, Inc.	Preservation:	Cool
Laboratory ID:	75723-05	QC Batch ID:	SV-1481-P
Sampled:	08-11-04 11:09	Instrument ID:	MS-6 HP 6890
Received:	08-11-04 18:00	Sample Weight:	15 g
Cleaned Up:	08-24-04 16:00	Final Volume:	1 mL
Extracted:	08-25-04 16:00	Percent Solids:	68
Analyzed:	08-26-04 02:27	Dilution Factor:	1
Analyst:	JJT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/Kg	14
91-57-6	2-Methylnaphthalene	BRL		ug/Kg	14
208-96-8	Acenaphthylene	BRL		ug/Kg	14
83-32-9	Acenaphthene	BRL		ug/Kg	14
86-73-7	Fluorene	BRL		ug/Kg	14
85-01-8	Phenanthrene	BRL		ug/Kg	14
120-12-7	Anthracene	BRL		ug/Kg	14
206-44-0	Fluoranthene	30		ug/Kg	14
129-00-0	Pyrene	33		ug/Kg	14
56-55-3	Benzo[a]anthracene	19		ug/Kg	14
218-01-9	Chrysene	22		ug/Kg	14
205-99-2	Benzo[b]fluoranthene	14		ug/Kg	14
207-08-9	Benzo[k]fluoranthene	15		ug/Kg	14
50-32-8	Benzo[a]pyrene	22		ug/Kg	14
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/Kg	14
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/Kg	14
191-24-2	Benzo[g,h,i]perylene	BRL		ug/Kg	14

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Nitrobenzene-d5	960	490	51 %	30 - 130 %
2-Fluorobiphenyl	960	390	41 %	30 - 130 %
Terphenyl-d14	960	780	82 %	30 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Method modified by use of selected ion monitoring (SIM) in accordance with Section 7.5.5 of the method. Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3630C. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8270C
Polynuclear Aromatic Hydrocarbons by GC/MS-SIM

Field ID:	ACD-S02	Matrix:	Soil
Project:	Buzzards Bay/7079608-2000	Container:	120 mL Amber Glass
Client:	ENTRIX, Inc.	Preservation:	Cool
Laboratory ID:	75723-06	QC Batch ID:	SV-1481-P
Sampled:	08-11-04 11:20	Instrument ID:	MS-6 HP 6890
Received:	08-11-04 18:00	Sample Weight:	16 g
Cleaned Up:	08-24-04 16:00	Final Volume:	1 mL
Extracted:	08-25-04 16:00	Percent Solids:	78
Analyzed:	08-26-04 03:06	Dilution Factor:	1
Analyst:	JJT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/Kg	12
91-57-6	2-Methylnaphthalene	BRL		ug/Kg	12
208-96-8	Acenaphthylene	BRL		ug/Kg	12
83-32-9	Acenaphthene	BRL		ug/Kg	12
86-73-7	Fluorene	BRL		ug/Kg	12
85-01-8	Phenanthrene	BRL		ug/Kg	12
120-12-7	Anthracene	BRL		ug/Kg	12
206-44-0	Fluoranthene	BRL		ug/Kg	12
129-00-0	Pyrene	BRL		ug/Kg	12
56-55-3	Benzo[a]anthracene	BRL		ug/Kg	12
218-01-9	Chrysene	BRL		ug/Kg	12
205-99-2	Benzo[b]fluoranthene	BRL		ug/Kg	12
207-08-9	Benzo[k]fluoranthene	BRL		ug/Kg	12
50-32-8	Benzo[a]pyrene	BRL		ug/Kg	12
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/Kg	12
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/Kg	12
191-24-2	Benzo[g,h,i]perylene	BRL		ug/Kg	12

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Nitrobenzene-d5	810	470	58 %	30 - 130 %
2-Fluorobiphenyl	810	400	50 %	30 - 130 %
Terphenyl-d14	810	660	81 %	30 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Method modified by use of selected ion monitoring (SIM) in accordance with Section 7.5.5 of the method. Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3630C. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8270C
Polynuclear Aromatic Hydrocarbons by GC/MS-SIM

Field ID:	ACD-S03	Matrix:	Soil
Project:	Buzzards Bay/7079608-2000	Container:	120 mL Amber Glass
Client:	ENTRIX, Inc.	Preservation:	Cool
Laboratory ID:	75723-07	QC Batch ID:	SV-1481-P
Sampled:	08-11-04 11:28	Instrument ID:	MS-6 HP 6890
Received:	08-11-04 18:00	Sample Weight:	16 g
Cleaned Up:	08-24-04 16:00	Final Volume:	1 mL
Extracted:	08-25-04 16:00	Percent Solids:	83
Analyzed:	08-26-04 03:45	Dilution Factor:	1
Analyst:	JJT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/Kg	11
91-57-6	2-Methylnaphthalene	BRL		ug/Kg	11
208-96-8	Acenaphthylene	BRL		ug/Kg	11
83-32-9	Acenaphthene	BRL		ug/Kg	11
86-73-7	Fluorene	BRL		ug/Kg	11
85-01-8	Phenanthrene	75		ug/Kg	11
120-12-7	Anthracene	23		ug/Kg	11
206-44-0	Fluoranthene	110		ug/Kg	11
129-00-0	Pyrene	92		ug/Kg	11
56-55-3	Benzo[a]anthracene	52		ug/Kg	11
218-01-9	Chrysene	47		ug/Kg	11
205-99-2	Benzo[b]fluoranthene	38		ug/Kg	11
207-08-9	Benzo[k]fluoranthene	37		ug/Kg	11
50-32-8	Benzo[a]pyrene	49		ug/Kg	11
193-39-5	Indeno[1,2,3-c,d]pyrene	27		ug/Kg	11
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/Kg	11
191-24-2	Benzo[g,h,i]perylene	29		ug/Kg	11

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Nitrobenzene-d5	760	410	54 %	30 - 130 %
2-Fluorobiphenyl	760	330	43 %	30 - 130 %
Terphenyl-d14	760	570	75 %	30 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Method modified by use of selected ion monitoring (SIM) in accordance with Section 7.5.5 of the method. Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3630C. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8270C
Polynuclear Aromatic Hydrocarbons by GC/MS-SIM

Field ID:	PB-SS-S01	Matrix:	Soil
Project:	Buzzards Bay/7079608-2000	Container:	120 mL Amber Glass
Client:	ENTRIX, Inc.	Preservation:	Cool
Laboratory ID:	75723-08	QC Batch ID:	SV-1481-P
Sampled:	08-11-04 14:20	Instrument ID:	MS-6 HP 6890
Received:	08-11-04 18:00	Sample Weight:	16 g
Cleaned Up:	08-24-04 16:00	Final Volume:	1 mL
Extracted:	08-25-04 16:00	Percent Solids:	74
Analyzed:	08-26-04 04:24	Dilution Factor:	1
Analyst:	JJT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/Kg	13
91-57-6	2-Methylnaphthalene	BRL		ug/Kg	13
208-96-8	Acenaphthylene	BRL		ug/Kg	13
83-32-9	Acenaphthene	BRL		ug/Kg	13
86-73-7	Fluorene	BRL		ug/Kg	13
85-01-8	Phenanthrene	BRL		ug/Kg	13
120-12-7	Anthracene	BRL		ug/Kg	13
206-44-0	Fluoranthene	BRL		ug/Kg	13
129-00-0	Pyrene	BRL		ug/Kg	13
56-55-3	Benzo[a]anthracene	BRL		ug/Kg	13
218-01-9	Chrysene	BRL		ug/Kg	13
205-99-2	Benzo[b]fluoranthene	BRL		ug/Kg	13
207-08-9	Benzo[k]fluoranthene	BRL		ug/Kg	13
50-32-8	Benzo[a]pyrene	BRL		ug/Kg	13
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/Kg	13
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/Kg	13
191-24-2	Benzo[g,h,i]perylene	BRL		ug/Kg	13

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Nitrobenzene-d5	850	440	52 %	30 - 130 %
2-Fluorobiphenyl	850	340	40 %	30 - 130 %
Terphenyl-d14	850	630	75 %	30 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Method modified by use of selected ion monitoring (SIM) in accordance with Section 7.5.5 of the method. Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3630C. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8270C
Polynuclear Aromatic Hydrocarbons by GC/MS-SIM

Field ID:	**BSS-01**	Matrix:	**Soil**
Project:	**Buzzards Bay/7079608-2000**	Container:	**120 mL Amber Glass**
Client:	**ENTRIX, Inc.**	Preservation:	**Cool**
Laboratory ID:	**75723-09**	QC Batch ID:	**SV-1481-P**
Sampled:	**08-11-04 00:00**	Instrument ID:	**MS-6 HP 6890**
Received:	**08-11-04 18:00**	Sample Weight:	**15 g**
Cleaned Up:	**08-24-04 16:00**	Final Volume:	**1 mL**
Extracted:	**08-25-04 16:00**	Percent Solids:	**76**
Analyzed:	**08-26-04 05:03**	Dilution Factor:	**1**
Analyst:	**JJT**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/Kg	13
91-57-6	2-Methylnaphthalene	BRL		ug/Kg	13
208-96-8	Acenaphthylene	BRL		ug/Kg	13
83-32-9	Acenaphthene	BRL		ug/Kg	13
86-73-7	Fluorene	BRL		ug/Kg	13
85-01-8	Phenanthrene	BRL		ug/Kg	13
120-12-7	Anthracene	BRL		ug/Kg	13
206-44-0	Fluoranthene	BRL		ug/Kg	13
129-00-0	Pyrene	BRL		ug/Kg	13
56-55-3	Benzo[a]anthracene	BRL		ug/Kg	13
218-01-9	Chrysene	BRL		ug/Kg	13
205-99-2	Benzo[b]fluoranthene	BRL		ug/Kg	13
207-08-9	Benzo[k]fluoranthene	BRL		ug/Kg	13
50-32-8	Benzo[a]pyrene	BRL		ug/Kg	13
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/Kg	13
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/Kg	13
191-24-2	Benzo[g,h,i]perylene	BRL		ug/Kg	13

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Nitrobenzene-d5	860	560	**65 %**	30 - 130 %
2-Fluorobiphenyl	860	390	**46 %**	30 - 130 %
Terphenyl-d14	860	660	**77 %**	30 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Method modified by use of selected ion monitoring (SIM) in accordance with Section 7.5.5 of the method. Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3630C. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8270C
Polynuclear Aromatic Hydrocarbons by GC/MS-SIM

Field ID:	**PB-SS-S02**	Matrix:	**Soil**
Project:	**Buzzards Bay/7079608-2000**	Container:	**120 mL Amber Glass**
Client:	**ENTRIX, Inc.**	Preservation:	**Cool**
Laboratory ID:	**75723-10**	QC Batch ID:	**SV-1481-P**
Sampled:	**08-11-04 14:30**	Instrument ID:	**MS-6 HP 6890**
Received:	**08-11-04 18:00**	Sample Weight:	**15 g**
Cleaned Up:	**08-24-04 16:00**	Final Volume:	**1 mL**
Extracted:	**08-25-04 16:00**	Percent Solids:	**77**
Analyzed:	**08-26-04 05:42**	Dilution Factor:	**1**
Analyst:	**JJT**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/Kg	13
91-57-6	2-Methylnaphthalene	BRL		ug/Kg	13
208-96-8	Acenaphthylene	BRL		ug/Kg	13
83-32-9	Acenaphthene	BRL		ug/Kg	13
86-73-7	Fluorene	BRL		ug/Kg	13
85-01-8	Phenanthrene	BRL		ug/Kg	13
120-12-7	Anthracene	BRL		ug/Kg	13
206-44-0	Fluoranthene	BRL		ug/Kg	13
129-00-0	Pyrene	BRL		ug/Kg	13
56-55-3	Benzo[a]anthracene	BRL		ug/Kg	13
218-01-9	Chrysene	BRL		ug/Kg	13
205-99-2	Benzo[b]fluoranthene	BRL		ug/Kg	13
207-08-9	Benzo[k]fluoranthene	BRL		ug/Kg	13
50-32-8	Benzo[a]pyrene	BRL		ug/Kg	13
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/Kg	13
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/Kg	13
191-24-2	Benzo[g,h,i]perylene	BRL		ug/Kg	13

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Nitrobenzene-d5	850	490	58 %	30 - 130 %
2-Fluorobiphenyl	850	350	41 %	30 - 130 %
Terphenyl-d14	850	640	75 %	30 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Method modified by use of selected ion monitoring (SIM) in accordance with Section 7.5.5 of the method. Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3630C. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8270C
Polynuclear Aromatic Hydrocarbons by GC/MS-SIM

Field ID:	PB-SS-S03	Matrix:	Soil
Project:	Buzzards Bay/7079608-2000	Container:	120 mL Amber Glass
Client:	ENTRIX, Inc.	Preservation:	Cool
Laboratory ID:	75723-11	QC Batch ID:	SV-1481-P
Sampled:	08-11-04 14:45	Instrument ID:	MS-6 HP 6890
Received:	08-11-04 18:00	Sample Weight:	16 g
Cleaned Up:	08-24-04 16:00	Final Volume:	1 mL
Extracted:	08-25-04 16:00	Percent Solids:	88
Analyzed:	08-26-04 06:21	Dilution Factor:	1
Analyst:	JJT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/Kg	11
91-57-6	2-Methylnaphthalene	BRL		ug/Kg	11
208-96-8	Acenaphthylene	BRL		ug/Kg	11
83-32-9	Acenaphthene	BRL		ug/Kg	11
86-73-7	Fluorene	BRL		ug/Kg	11
85-01-8	Phenanthrene	BRL		ug/Kg	11
120-12-7	Anthracene	BRL		ug/Kg	11
206-44-0	Fluoranthene	11		ug/Kg	11
129-00-0	Pyrene	BRL		ug/Kg	11
56-55-3	Benzo[a]anthracene	BRL		ug/Kg	11
218-01-9	Chrysene	BRL		ug/Kg	11
205-99-2	Benzo[b]fluoranthene	BRL		ug/Kg	11
207-08-9	Benzo[k]fluoranthene	BRL		ug/Kg	11
50-32-8	Benzo[a]pyrene	BRL		ug/Kg	11
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/Kg	11
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/Kg	11
191-24-2	Benzo[g,h,i]perylene	BRL		ug/Kg	11

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Nitrobenzene-d5	710	320	45 %	30 - 130 %
2-Fluorobiphenyl	710	240	34 %	30 - 130 %
Terphenyl-d14	710	550	77 %	30 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Method modified by use of selected ion monitoring (SIM) in accordance with Section 7.5.5 of the method. Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3630C. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8270C
Polynuclear Aromatic Hydrocarbons by GC/MS-SIM

Field ID:	**PB-SS-S04**	Matrix:	**Soil**
Project:	**Buzzards Bay/7079608-2000**	Container:	**120 mL Amber Glass**
Client:	**ENTRIX, Inc.**	Preservation:	**Cool**
Laboratory ID:	**75723-12**	QC Batch ID:	**SV-1481-P**
Sampled:	**08-11-04 14:55**	Instrument ID:	**MS-6 HP 6890**
Received:	**08-11-04 18:00**	Sample Weight:	**15 g**
Cleaned Up:	**08-24-04 16:00**	Final Volume:	**1 mL**
Extracted:	**08-25-04 16:00**	Percent Solids:	**82**
Analyzed:	**08-26-04 07:00**	Dilution Factor:	**1**
Analyst:	**JJT**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/Kg	12
91-57-6	2-Methylnaphthalene	BRL		ug/Kg	12
208-96-8	Acenaphthylene	BRL		ug/Kg	12
83-32-9	Acenaphthene	BRL		ug/Kg	12
86-73-7	Fluorene	BRL		ug/Kg	12
85-01-8	Phenanthrene	BRL		ug/Kg	12
120-12-7	Anthracene	BRL		ug/Kg	12
206-44-0	Fluoranthene	BRL		ug/Kg	12
129-00-0	Pyrene	BRL		ug/Kg	12
56-55-3	Benzo[a]anthracene	BRL		ug/Kg	12
218-01-9	Chrysene	BRL		ug/Kg	12
205-99-2	Benzo[b]fluoranthene	BRL		ug/Kg	12
207-08-9	Benzo[k]fluoranthene	BRL		ug/Kg	12
50-32-8	Benzo[a]pyrene	BRL		ug/Kg	12
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/Kg	12
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/Kg	12
191-24-2	Benzo[g,h,i]perylene	BRL		ug/Kg	12

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Nitrobenzene-d5	800	450	**56 %**	30 - 130 %
2-Fluorobiphenyl	800	360	**45 %**	30 - 130 %
Terphenyl-d14	800	640	**79 %**	30 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Method modified by use of selected ion monitoring (SIM) in accordance with Section 7.5.5 of the method. Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3630C. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8270C
Polynuclear Aromatic Hydrocarbons by GC/MS-SIM

Field ID:	**PB-DS-S04**	Matrix:	**Soil**
Project:	**Buzzards Bay/7079608-2000**	Container:	**120 mL Amber Glass**
Client:	**ENTRIX, Inc.**	Preservation:	**Cool**
Laboratory ID:	**75723-13**	QC Batch ID:	**SV-1481-P**
Sampled:	**08-11-04 15:12**	Instrument ID:	**MS-6 HP 6890**
Received:	**08-11-04 18:00**	Sample Weight:	**15 g**
Cleaned Up:	**08-24-04 16:00**	Final Volume:	**1 mL**
Extracted:	**08-25-04 16:00**	Percent Solids:	**73**
Analyzed:	**08-26-04 07:39**	Dilution Factor:	**1**
Analyst:	**JJT**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/Kg	14
91-57-6	2-Methylnaphthalene	BRL		ug/Kg	14
208-96-8	Acenaphthylene	BRL		ug/Kg	14
83-32-9	Acenaphthene	BRL		ug/Kg	14
86-73-7	Fluorene	BRL		ug/Kg	14
85-01-8	Phenanthrene	**23**		ug/Kg	14
120-12-7	Anthracene	BRL		ug/Kg	14
206-44-0	Fluoranthene	**50**		ug/Kg	14
129-00-0	Pyrene	**51**		ug/Kg	14
56-55-3	Benzo[a]anthracene	**26**		ug/Kg	14
218-01-9	Chrysene	**26**		ug/Kg	14
205-99-2	Benzo[b]fluoranthene	**21**		ug/Kg	14
207-08-9	Benzo[k]fluoranthene	**20**		ug/Kg	14
50-32-8	Benzo[a]pyrene	**29**		ug/Kg	14
193-39-5	Indeno[1,2,3-c,d]pyrene	**15**		ug/Kg	14
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/Kg	14
191-24-2	Benzo[g,h,i]perylene	17		ug/Kg	14

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Nitrobenzene-d5	900	510	**57 %**	30 - 130 %
2-Fluorobiphenyl	900	360	**40 %**	30 - 130 %
Terphenyl-d14	900	660	**74 %**	30 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Method modified by use of selected ion monitoring (SIM) in accordance with Section 7.5.5 of the method. Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3630C. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8270C
Polynuclear Aromatic Hydrocarbons by GC/MS-SIM

Field ID:	PB-DS-S03	Matrix:	Soil
Project:	Buzzards Bay/7079608-2000	Container:	120 mL Amber Glass
Client:	ENTRIX, Inc.	Preservation:	Cool
Laboratory ID:	75723-14	QC Batch ID:	SV-1481-P
Sampled:	08-11-04 15:30	Instrument ID:	MS-6 HP 6890
Received:	08-11-04 18:00	Sample Weight:	15 g
Cleaned Up:	08-24-04 16:00	Final Volume:	1 mL
Extracted:	08-25-04 16:00	Percent Solids:	62
Analyzed:	08-26-04 08:18	Dilution Factor:	1
Analyst:	JJT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/Kg	16
91-57-6	2-Methylnaphthalene	BRL		ug/Kg	16
208-96-8	Acenaphthylene	BRL		ug/Kg	16
83-32-9	Acenaphthene	BRL		ug/Kg	16
86-73-7	Fluorene	BRL		ug/Kg	16
85-01-8	Phenanthrene	23		ug/Kg	16
120-12-7	Anthracene	BRL		ug/Kg	16
206-44-0	Fluoranthene	58		ug/Kg	16
129-00-0	Pyrene	50		ug/Kg	16
56-55-3	Benzo[a]anthracene	25		ug/Kg	16
218-01-9	Chrysene	27		ug/Kg	16
205-99-2	Benzo[b]fluoranthene	21		ug/Kg	16
207-08-9	Benzo[k]fluoranthene	20		ug/Kg	16
50-32-8	Benzo[a]pyrene	28		ug/Kg	16
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/Kg	16
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/Kg	16
191-24-2	Benzo[g,h,i]perylene	17		ug/Kg	16

QC Surrogate Compound	Spiked	Measured	Recovery		QC Limits
Nitrobenzene-d5	1,100	460	44 %		30 - 130 %
2-Fluorobiphenyl	1,100	260	25 %	m	30 - 130 %
Terphenyl-d14	1,100	680	65 %		30 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Method modified by use of selected ion monitoring (SIM) in accordance with Section 7.5.5 of the method. Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3630C. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

m Surrogate recovery outside recommended limits due to sample matrix interference.

GROUNDWATER ANALYTICAL

EPA Method 8270C
Polynuclear Aromatic Hydrocarbons by GC/MS-SIM

Field ID:	**PB-DS-S02**	Matrix:	**Soil**
Project:	**Buzzards Bay/7079608-2000**	Container:	**120 mL Amber Glass**
Client:	**ENTRIX, Inc.**	Preservation:	**Cool**
Laboratory ID:	**75723-15**	QC Batch ID:	**SV-1481-P**
Sampled:	**08-11-04 15:42**	Instrument ID:	**MS-6 HP 6890**
Received:	**08-11-04 18:00**	Sample Weight:	**15 g**
Cleaned Up:	**08-24-04 16:00**	Final Volume:	**1 mL**
Extracted:	**08-25-04 16:00**	Percent Solids:	**60**
Analyzed:	**08-26-04 08:57**	Dilution Factor:	**1**
Analyst:	**JJT**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/Kg	16
91-57-6	2-Methylnaphthalene	BRL		ug/Kg	16
208-96-8	Acenaphthylene	BRL		ug/Kg	16
83-32-9	Acenaphthene	BRL		ug/Kg	16
86-73-7	Fluorene	BRL		ug/Kg	16
85-01-8	Phenanthrene	35		ug/Kg	16
120-12-7	Anthracene	BRL		ug/Kg	16
206-44-0	Fluoranthene	77		ug/Kg	16
129-00-0	Pyrene	64		ug/Kg	16
56-55-3	Benzo[a]anthracene	33		ug/Kg	16
218-01-9	Chrysene	30		ug/Kg	16
205-99-2	Benzo[b]fluoranthene	25		ug/Kg	16
207-08-9	Benzo[k]fluoranthene	25		ug/Kg	16
50-32-8	Benzo[a]pyrene	34		ug/Kg	16
193-39-5	Indeno[1,2,3-c,d]pyrene	19		ug/Kg	16
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/Kg	16
191-24-2	Benzo[g,h,i]perylene	20		ug/Kg	16

QC Surrogate Compound	Spiked	Measured	Recovery		QC Limits
Nitrobenzene-d5	1,100	340	30 %		30 - 130 %
2-Fluorobiphenyl	1,100	160	15 %	m	30 - 130 %
Terphenyl-d14	1,100	520	47 %		30 - 130 %

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