

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
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RECEIVED OCT 20 1999

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

CERTIFICATE OF ANALYSIS

Client: ERM-New England

Laboratory Job Number: L9908139

Address: 399 Boylston Street
6th Floor
Boston, MA 02116

Invoice Number: 30610

Date Received: 07-OCT-99

Attn: John McTigue

Date Reported: 15-OCT-99

Project Number: 143.48

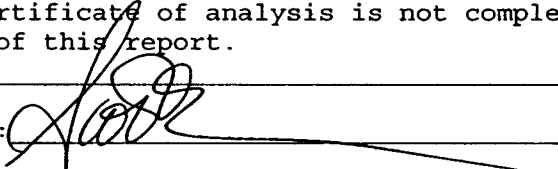
Delivery Method: Alpha

Site: RAYTHEON

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9908139-01	T-1-B (0-6")	WAYLAND
L9908139-02	T-1-B (12-18")	WAYLAND
L9908139-03	T-1-1 (0-6")	WAYLAND
L9908139-04	T-1-1 (12-18")	WAYLAND
L9908139-05	T-1-4 (0-6")	WAYLAND
L9908139-06	T-1-4 (12-18")	WAYLAND
L9908139-07	T-1-6 (0-6")	WAYLAND
L9908139-08	T-2-D (0-6")	WAYLAND
L9908139-09	T-2-D (12-18")	WAYLAND
L9908139-10	T-2-6 (0-6")	WAYLAND
L9908139-11	T-2-A (0-6")	WAYLAND
L9908139-12	T-2-A (12-18")	WAYLAND
L9908139-13	T-2-A (18+)"	WAYLAND
L9908139-14	T-2-8 (0-6")	WAYLAND
L9908139-15	T-2-8 (12-18")	WAYLAND
L9908139-16	T-2-8 (18+)"	WAYLAND
L9908139-17	T-2-7 (0-6")	WAYLAND

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. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by:



Scott McLean - Laboratory Director

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L9908139
Date Reported: 15-OCT-99

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9908139-18	T-2-7 (12-18")	WAYLAND
L9908139-19	T-2-7 (18+)"	WAYLAND

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908139-01
 T-1-B (0-6")
 Sample Matrix: SOIL
 Condition of Sample: Satisfactory
 Number & Type of Containers: 2-Amber Glass,2-Glass

Date Collected: 07-OCT-1999
 Date Received : 07-OCT-1999
 Date Reported : 15-OCT-99
 Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Solids, Total	73.	%	0.10	30	2540G		12-Oct	KK
Chromium, Hexavalent	ND	mg/kg	1.7	1	7196A		14-Oct	ST
Total Metals					1	3051		
Aluminum, Total	5400	mg/kg	5.4	1	6010B		12-Oct	13-Oct LP
Antimony, Total	ND	mg/kg	2.7	1	6010B		12-Oct	12-Oct MG
Arsenic, Total	5.8	mg/kg	0.54	1	6010B		12-Oct	12-Oct MG
Barium, Total	30.	mg/kg	0.54	1	6010B		12-Oct	12-Oct MG
Beryllium, Total	0.39	mg/kg	0.27	1	6010B		12-Oct	12-Oct MC
Cadmium, Total	0.350	mg/kg	0.269	1	6010B		12-Oct	12-Oct MC
Calcium, Total	970	mg/kg	27.	1	6010B		12-Oct	13-Oct LF
Chromium, Total	33.	mg/kg	0.54	1	6010B		12-Oct	12-Oct MG
Cobalt, Total	2.4	mg/kg	1.1	1	6010B		12-Oct	12-Oct MG
Copper, Total	39.	mg/kg	0.54	1	6010B		12-Oct	12-Oct MG
Iron, Total	6500	mg/kg	2.7	1	6010B		12-Oct	13-Oct LP
Lead, Total	22.	mg/kg	2.7	1	6010B		12-Oct	12-Oct MG
Magnesium, Total	1300	mg/kg	5.4	1	6010B		12-Oct	13-Oct LP
Manganese, Total	110	mg/kg	0.54	1	6010B		12-Oct	13-Oct LP
Mercury, Total	ND	mg/kg	0.34	1	7471A		13-Oct	14-Oct TT
Nickel, Total	6.8	mg/kg	1.3	1	6010B		12-Oct	12-Oct MC
Potassium, Total	420	mg/kg	130	1	6010B		12-Oct	14-Oct LI
Selenium, Total	ND	mg/kg	1.1	1	6010B		12-Oct	12-Oct MC
Silver, Total	1.6	mg/kg	0.54	1	6010B		12-Oct	12-Oct MC
Sodium, Total	54.	mg/kg	27.	1	6010B		12-Oct	13-Oct LI
Thallium, Total	ND	mg/kg	1.1	1	6010B		12-Oct	12-Oct MC
Tin, Total	ND	mg/kg	27.	1	6010B		12-Oct	14-Oct LI
Vanadium, Total	12.	mg/kg	0.54	1	6010B		12-Oct	12-Oct MC
Zinc, Total	23.	mg/kg	2.7	1	6010B		12-Oct	12-Oct MC
PAH by GC/MS SIM 8270M					1	8270C-M	08-Oct	14-Oct MF
Acenaphthene	ND	ug/kg	55.					
2-Chloronaphthalene	ND	ug/kg	55.					
Fluoranthene	1500	ug/kg	55.					
Naphthalene	ND	ug/kg	55.					
Benzo(a)anthracene	770	ug/kg	55.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-01
T-1-B (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
PAH by GC/MS SIM 8270M continued						
Benzo (a, e) pyrene	590	ug/kg	55.	1	8270C-M	08-Oct 14-Oct
Benzo (b) fluoranthene	880	ug/kg	55.			
Benzo (k) fluoranthene	870	ug/kg	55.			
Chrysene	950	ug/kg	55.			
Acenaphthylene	220	ug/kg	55.			
Anthracene	150	ug/kg	55.			
Benzo (ghi) perylene	440	ug/kg	55.			
Fluorene	ND	ug/kg	55.			
Phenanthrene	150	ug/kg	55.			
Dibenzo (a, h) anthracene	180	ug/kg	55.			
Indeno (1, 2, 3-cd) Pyrene	530	ug/kg	55.			
Pyrene	1500	ug/kg	55.			
1-Methylnaphthalene	ND	ug/kg	55.			
2-Methylnaphthalene	ND	ug/kg	55.			
Perylene	120	ug/kg	55.			
Biphenyl	ND	ug/kg	55.			
Surrogate Recovery						
Nitrobenzene-d5	52.0	%				
2-Fluorobiphenyl	63.0	%				
4-Terphenyl-d14	75.0	%				
Polychlorinated Biphenyls						
Aroclor 1221	ND	ug/kg	342.	1	8082	09-Oct 14-Oct
Aroclor 1232	ND	ug/kg	342.			
Aroclor 1242/1016	ND	ug/kg	342.			
Aroclor 1248	ND	ug/kg	342.			
Aroclor 1254	ND	ug/kg	342.			
Aroclor 1260	ND	ug/kg	342.			
Surrogate Recovery						
2,4,5,6-Tetrachloro-m-xylene	139.	%				
Decachlorobiphenyl	121.	%				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-01
T-1-B (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
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Extractable Petroleum Hydrocarbons				46	98-1	08-Oct 12-Oct	HL
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Quality Control Information

Condition of sample received:	Satisfactory	
Sample temperature upon receipt:	Received on Ice	
Sample extraction method:	Extracted Per the Method	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		NO
1. One or more of the EPH LCS recoveries were greater than 140%.		
Were significant modifications made to the method as specified in Sect 11.3?		NO
Please note to subtract the method blank from the stated result.		
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.		
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.		

C9-C18 Aliphatics	ND	mg/kg	13.7
C19-C36 Aliphatics	ND	mg/kg	13.7
C11-C22 Aromatics	36.5	mg/kg	13.7

Surrogate Recovery

Chloro-Octadecane	77.0	%	
o-Terphenyl	94.0	%	
2-Fluorobiphenyl	103.	%	
2-Bromonaphthalene	87.0	%	

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908139-02
 Sample Matrix: T-1-B (12-18") SOIL
 Condition of Sample: Satisfactory
 Number & Type of Containers: 1-Glass

Date Collected: 07-OCT-1999
 Date Received : 07-OCT-1999
 Date Reported : 15-OCT-99

Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	TD
Solids, Total	74.	%	0.10	30	2540G	13-Oct	K
Polychlorinated Biphenyls							
Aroclor 1221	ND	ug/kg	338.	1	8082	09-Oct 14-Oct	PR
Aroclor 1232	ND	ug/kg	338.				
Aroclor 1242/1016	ND	ug/kg	338.				
Aroclor 1248	ND	ug/kg	338.				
Aroclor 1254	ND	ug/kg	338.				
Aroclor 1260	ND	ug/kg	338.				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	138.	%					
Decachlorobiphenyl	110.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908139-03	Date Collected: 07-OCT-1999
T-1-1 (0-6")	Date Received : 07-OCT-1999
Sample Matrix: SOIL	Date Reported : 15-OCT-99
Condition of Sample: Satisfactory	Field Prep: None

Number & Type of Containers: 2-Amber Glass, 2-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	90.	%	0.10	30	2540G	12-Oct	KK
Chromium, Hexavalent	ND	mg/kg	1.4	1	7196A	14-Oct	ST
Total Metals				1	3051		
Aluminum, Total	3800	mg/kg	4.4	1	6010B	12-Oct 13-Oct	LP
Antimony, Total	ND	mg/kg	2.2	1	6010B	12-Oct 12-Oct	MG
Arsenic, Total	2.8	mg/kg	0.44	1	6010B	12-Oct 12-Oct	MG
Barium, Total	17.	mg/kg	0.44	1	6010B	12-Oct 12-Oct	MG
Beryllium, Total	0.27	mg/kg	0.22	1	6010B	12-Oct 12-Oct	MG
Cadmium, Total	0.324	mg/kg	0.221	1	6010B	12-Oct 12-Oct	MG
Calcium, Total	880	mg/kg	22.	1	6010B	12-Oct 13-Oct	LP
Chromium, Total	20.	mg/kg	0.44	1	6010B	12-Oct 12-Oct	MG
Cobalt, Total	2.9	mg/kg	0.88	1	6010B	12-Oct 12-Oct	MG
Copper, Total	28.	mg/kg	0.44	1	6010B	12-Oct 12-Oct	MG
Iron, Total	5800	mg/kg	2.2	1	6010B	12-Oct 13-Oct	LP
Lead, Total	18.	mg/kg	2.2	1	6010B	12-Oct 12-Oct	MG
Magnesium, Total	1600	mg/kg	4.4	1	6010B	12-Oct 13-Oct	LP
Manganese, Total	110	mg/kg	0.44	1	6010B	12-Oct 13-Oct	LP
Mercury, Total	ND	mg/kg	0.28	1	7471A	13-Oct 14-Oct	TT
Nickel, Total	5.6	mg/kg	1.1	1	6010B	12-Oct 12-Oct	MG
Potassium, Total	450	mg/kg	110	1	6010B	12-Oct 14-Oct	LP
Selenium, Total	ND	mg/kg	0.88	1	6010B	12-Oct 12-Oct	MG
Silver, Total	1.8	mg/kg	0.44	1	6010B	12-Oct 12-Oct	MG
Sodium, Total	35.	mg/kg	22.	1	6010B	12-Oct 13-Oct	LP
Thallium, Total	ND	mg/kg	0.88	1	6010B	12-Oct 12-Oct	MG
Tin, Total	ND	mg/kg	22.	1	6010B	12-Oct 14-Oct	LP
Vanadium, Total	10.	mg/kg	0.44	1	6010B	12-Oct 12-Oct	MG
Zinc, Total	29.	mg/kg	2.2	1	6010B	12-Oct 12-Oct	MG
PAH by GC/MS SIM 8270M				1	8270C-M	08-Oct 14-Oct	MK
Acenaphthene	55.	ug/kg	44.				
2-Chloronaphthalene	ND	ug/kg	44.				
Fluoranthene	7100	ug/kg	44.				
Naphthalene	ND	ug/kg	44.				
Benzo(a)anthracene	3900	ug/kg	44.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-03
T-1-1 (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
PAH by GC/MS SIM 8270M continued						
Benzo (a, e) pyrene	3200	ug/kg	44.	1	8270C-M	08-Oct 14-Oct
Benzo (b) fluoranthene	3900	ug/kg	44.			
Benzo (k) fluoranthene	3400	ug/kg	44.			
Chrysene	4000	ug/kg	44.			
Acenaphthylene	780	ug/kg	44.			
Anthracene	500	ug/kg	44.			
Benzo (ghi) perylene	1700	ug/kg	44.			
Fluorene	68.	ug/kg	44.			
Phenanthrene	500	ug/kg	44.			
Dibenzo (a, h) anthracene	760	ug/kg	44.			
Indeno (1, 2, 3-cd) Pyrene	2100	ug/kg	44.			
Pyrene	6200	ug/kg	44.			
1-Methylnaphthalene	ND	ug/kg	44.			
2-Methylnaphthalene	ND	ug/kg	44.			
Perylene	620	ug/kg	44.			
Biphenyl	ND	ug/kg	44.			
Surrogate Recovery						
Nitrobenzene-d5	42.0	%				
2-Fluorobiphenyl	47.0	%				
4-Terphenyl-d14	45.0	%				
Polychlorinated Biphenyls						
Aroclor 1221	ND	ug/kg	278.	1	8082	09-Oct 14-Oct
Aroclor 1232	ND	ug/kg	278.			
Aroclor 1242/1016	ND	ug/kg	278.			
Aroclor 1248	ND	ug/kg	278.			
Aroclor 1254	ND	ug/kg	278.			
Aroclor 1260	ND	ug/kg	278.			
Surrogate Recovery						
2,4,5,6-Tetrachloro-m-xylene	131.	%				
Decachlorobiphenyl	110.	%				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-03
T-1-1 (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES	II
						PREP ANALYSIS	
Extractable Petroleum Hydrocarbons				46	98-1	09-Oct 14-Oct	JA

Quality Control Information

Condition of sample received: Satisfactory
 Sample temperature upon receipt: Received on Ice
 Sample extraction method: Extracted Per the Method
 Were all QA/QC procedures REQUIRED by the method followed? YES
 Were all performance/acceptance standards for the required procedures achieved? YES
 Were significant modifications made to the method as specified in Sect 11.3? NO
 Please note to subtract the method blank from the stated result.
 The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.
 The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.

C9-C18 Aliphatics	ND	mg/kg	11.1
C19-C36 Aliphatics	17.5	mg/kg	11.1
C11-C22 Aromatics	228.	mg/kg	11.1

Surrogate Recovery

Chloro-Octadecane	90.0	%
o-Terphenyl	126.	%
2-Fluorobiphenyl	98.0	%
2-Bromonaphthalene	88.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908139-04
 Sample Matrix: T-1-1 (12-18") SOIL
 Condition of Sample: Satisfactory
 Number & Type of Containers: 1-Glass

Date Collected: 07-OCT-1999
 Date Received : 07-OCT-1999
 Date Reported : 15-OCT-99
 Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Solids, Total	84.	%	0.10	30	2540G		13-Oct	K
Polychlorinated Biphenyls								
Aroclor 1221	ND	ug/kg	298.	1	8082		09-Oct 14-Oct	PB
Aroclor 1232	ND	ug/kg	298.					
Aroclor 1242/1016	ND	ug/kg	298.					
Aroclor 1248	ND	ug/kg	298.					
Aroclor 1254	ND	ug/kg	298.					
Aroclor 1260	ND	ug/kg	298.					
Surrogate Recovery								
2,4,5,6-Tetrachloro-m-xylene	126.	%						
Decachlorobiphenyl	124.	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9908139-05
T-1-4 (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	II
PAH by GC/MS SIM 8270M continued				1	8270C-M	08-Oct 14-Oct	
Benzo (a, e) pyrene	7600	ug/kg	330				
Benzo (b) fluoranthene	7200	ug/kg	330				
Benzo (k) fluoranthene	7600	ug/kg	330				
Chrysene	8800	ug/kg	330				
Acenaphthylene	ND	ug/kg	330				
Anthracene	1700	ug/kg	330				
Benzo (ghi) perylene	5900	ug/kg	330				
Fluorene	590	ug/kg	330				
Phenanthrene	8400	ug/kg	330				
Dibenzo (a, h) anthracene	2000	ug/kg	330				
Indeno (1, 2, 3-cd) Pyrene	6300	ug/kg	330				
Pyrene	12000	ug/kg	330				
1-Methylnaphthalene	ND	ug/kg	330				
2-Methylnaphthalene	ND	ug/kg	330				
Perylene	1500	ug/kg	330				
Biphenyl	ND	ug/kg	330				
Surrogate Recovery							
Nitrobenzene-d5	52.0	%					
2-Fluorobiphenyl	56.0	%					
4-Terphenyl-d14	65.0	%					
Polychlorinated Biphenyls				1	8082	09-Oct 14-Oct	PB
Aroclor 1221	ND	ug/kg	4160				
Aroclor 1232	ND	ug/kg	4160				
Aroclor 1242/1016	ND	ug/kg	4160				
Aroclor 1248	ND	ug/kg	4160				
Aroclor 1254	ND	ug/kg	4160				
Aroclor 1260	72400	ug/kg	4160				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	174.	%					
Decachlorobiphenyl	139.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-05
T-1-4 (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Extractable Petroleum Hydrocarbons				46	98-1	09-Oct 14-Oct	JA

Quality Control Information

Condition of sample received: Satisfactory
 Sample temperature upon receipt: Received on Ice
 Sample extraction method: Extracted Per the Method
 Were all QA/QC procedures REQUIRED by the method followed? YES
 Were all performance/acceptance standards for the required procedures achieved? NO
 1. One or more of the extraction surrogate recoveries were greater than 140%.
 Were significant modifications made to the method as specified in Sect 11.3? NO
 Please note to subtract the method blank from the stated result.
 The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.
 The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.

C9-C18 Aliphatics	264.	mg/kg	50.0
C19-C36 Aliphatics	2670	mg/kg	50.0
C11-C22 Aromatics	510.	mg/kg	50.0

Surrogate Recovery

Chloro-Octadecane	82.0	%
o-Terphenyl	302.	%
2-Fluorobiphenyl	93.0	%
2-Bromonaphthalene	82.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908139-06
 Sample Matrix: T-1-4 (12-18") SOIL
 Condition of Sample: Satisfactory
 Number & Type of Containers: 1-Glass

Date Collected: 07-OCT-1999
 Date Received : 07-OCT-1999
 Date Reported : 15-OCT-99

Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	TD
Solids, Total	42.	%	0.10	30	2540G	13-Oct	K
Polychlorinated Biphenyls							
Aroclor 1221	ND	ug/kg	596.	1	8082	09-Oct 14-Oct	PP
Aroclor 1232	ND	ug/kg	596.				
Aroclor 1242/1016	ND	ug/kg	596.				
Aroclor 1248	ND	ug/kg	596.				
Aroclor 1254	ND	ug/kg	596.				
Aroclor 1260	15900	ug/kg	596.				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	94.0	%					
Decachlorobiphenyl	101.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908139-07 Date Collected: 07-OCT-1999
 T-1-6 (0-6") Date Received : 07-OCT-1999
 Sample Matrix: SOIL Date Reported : 15-OCT-99
 Condition of Sample: Satisfactory Field Prep: None

Number & Type of Containers: 2-Amber Glass,2-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Solids, Total	87.	%	0.10	30	2540G		12-Oct	KK
Chromium, Hexavalent	ND	mg/kg	1.4	1	7196A		14-Oct	ST
Total Metals				1	3051			
Aluminum, Total	4500	mg/kg	4.5	1	6010B	12-Oct	13-Oct	LP
Antimony, Total	ND	mg/kg	2.3	1	6010B	12-Oct	12-Oct	MG
Arsenic, Total	3.0	mg/kg	0.45	1	6010B	12-Oct	12-Oct	MG
Barium, Total	32.	mg/kg	0.45	1	6010B	12-Oct	12-Oct	MG
Beryllium, Total	0.31	mg/kg	0.23	1	6010B	12-Oct	12-Oct	MG
Cadmium, Total	0.74	mg/kg	0.45	1	6010B	12-Oct	12-Oct	MG
Calcium, Total	3400	mg/kg	23.	1	6010B	12-Oct	13-Oct	LP
Chromium, Total	13.	mg/kg	0.45	1	6010B	12-Oct	12-Oct	MG
Cobalt, Total	3.8	mg/kg	0.91	1	6010B	12-Oct	12-Oct	MG
Copper, Total	20.	mg/kg	0.45	1	6010B	12-Oct	12-Oct	MG
Iron, Total	6100	mg/kg	2.3	1	6010B	12-Oct	13-Oct	LP
Lead, Total	44.	mg/kg	2.3	1	6010B	12-Oct	12-Oct	MG
Magnesium, Total	1600	mg/kg	4.5	1	6010B	12-Oct	13-Oct	LP
Manganese, Total	190	mg/kg	0.45	1	6010B	12-Oct	13-Oct	LP
Mercury, Total	ND	mg/kg	0.29	1	7471A	13-Oct	14-Oct	TT
Nickel, Total	6.6	mg/kg	1.1	1	6010B	12-Oct	12-Oct	MG
Potassium, Total	620	mg/kg	110	1	6010B	12-Oct	14-Oct	LP
Selenium, Total	ND	mg/kg	0.91	1	6010B	12-Oct	12-Oct	MG
Silver, Total	0.237	mg/kg	0.227	1	6010B	12-Oct	12-Oct	MG
Sodium, Total	33.	mg/kg	23.	1	6010B	12-Oct	13-Oct	LP
Thallium, Total	ND	mg/kg	0.91	1	6010B	12-Oct	12-Oct	MG
Tin, Total	ND	mg/kg	23.	1	6010B	12-Oct	14-Oct	LP
Vanadium, Total	12.	mg/kg	0.45	1	6010B	12-Oct	12-Oct	MG
Zinc, Total	61.	mg/kg	2.3	1	6010B	12-Oct	12-Oct	MG
PAH by GC/MS SIM 8270M				1	8270C-M	08-Oct	14-Oct	MK
Acenaphthene	ND	ug/kg	92.					
2-Chloronaphthalene	ND	ug/kg	92.					
Fluoranthene	1800	ug/kg	92.					
Naphthalene	ND	ug/kg	92.					
Benzo(a)anthracene	1000	ug/kg	92.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-07
T-1-6 (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	08-Oct 14-Oct	WK
Benzo (a, e) pyrene	1100	ug/kg	92.				
Benzo (b) fluoranthene	950	ug/kg	92.				
Benzo (k) fluoranthene	950	ug/kg	92.				
Chrysene	1100	ug/kg	92.				
Acenaphthylene	ND	ug/kg	92.				
Anthracene	200	ug/kg	92.				
Benzo (ghi) perylene	830	ug/kg	92.				
Fluorene	ND	ug/kg	92.				
Phenanthrene	730	ug/kg	92.				
Dibenzo (a, h) anthracene	270	ug/kg	92.				
Indeno (1, 2, 3-cd) Pyrene	750	ug/kg	92.				
Pyrene	1500	ug/kg	92.				
1-Methylnaphthalene	ND	ug/kg	92.				
2-Methylnaphthalene	ND	ug/kg	92.				
Perylene	240	ug/kg	92.				
Biphenyl	ND	ug/kg	92.				
Surrogate Recovery							
Nitrobenzene-d5	15.0	%					
2-Fluorobiphenyl	27.0	%					
4-Terphenyl-d14	52.0	%					
Polychlorinated Biphenyls				1	8082	09-Oct 14-Oct	FB
Aroclor 1221	ND	ug/kg	288.				
Aroclor 1232	ND	ug/kg	288.				
Aroclor 1242/1016	ND	ug/kg	288.				
Aroclor 1248	ND	ug/kg	288.				
Aroclor 1254	ND	ug/kg	288.				
Aroclor 1260	2960	ug/kg	288.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	131.	%					
Decachlorobiphenyl	105.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9908139-07
T-1-6 (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
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Extractable Petroleum Hydrocarbons				46	98-1	09-Oct 14-Oct	JA
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Quality Control Information

Condition of sample received:	Satisfactory
Sample temperature upon receipt:	Received on Ice
Sample extraction method:	Extracted Per the Method
Were all QA/QC procedures REQUIRED by the method followed?	YES
Were all performance/acceptance standards for the required procedures achieved?	YES
Were significant modifications made to the method as specified in Sect 11.3?	NO
Please note to subtract the method blank from the stated result.	
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.	
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.	

C9-C18 Aliphatics	ND	mg/kg	11.5
C19-C36 Aliphatics	13.2	mg/kg	11.5
C11-C22 Aromatics	104.	mg/kg	11.5

Surrogate Recovery

Chloro-Octadecane	92.0	%
o-Terphenyl	118.	%
2-Fluorobiphenyl	113.	%
2-Bromonaphthalene	105.	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908139-08
T-2-D (0-6")
Sample Matrix: SOIL

Date Collected: 07-OCT-1999
Date Received : 07-OCT-1999
Date Reported : 15-OCT-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber Glass,2-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		I
						PREP	ANALYSIS	
Solids, Total	55.	%	0.10	30	2540G		12-Oct	JK
Chromium, Hexavalent	ND	mg/kg	2.3	1	7196A		14-Oct	IT
Total Metals				1	3051			
Aluminum, Total	9100	mg/kg	7.2	1	6010B	12-Oct	13-Oct	JP
Antimony, Total	ND	mg/kg	3.6	1	6010B	12-Oct	12-Oct	IG
Arsenic, Total	8.8	mg/kg	0.72	1	6010B	12-Oct	12-Oct	MG
Barium, Total	41.	mg/kg	0.72	1	6010B	12-Oct	12-Oct	IG
Beryllium, Total	0.80	mg/kg	0.36	1	6010B	12-Oct	12-Oct	IG
Cadmium, Total	0.553	mg/kg	0.361	1	6010B	12-Oct	12-Oct	MG
Calcium, Total	1700	mg/kg	36.	1	6010B	12-Oct	13-Oct	LP
Chromium, Total	67.	mg/kg	0.72	1	6010B	12-Oct	12-Oct	IG
Cobalt, Total	5.9	mg/kg	1.4	1	6010B	12-Oct	12-Oct	IG
Copper, Total	93.	mg/kg	0.72	1	6010B	12-Oct	12-Oct	MG
Iron, Total	7800	mg/kg	3.6	1	6010B	12-Oct	13-Oct	LP
Lead, Total	30.	mg/kg	3.6	1	6010B	12-Oct	12-Oct	IG
Magnesium, Total	2000	mg/kg	7.2	1	6010B	12-Oct	13-Oct	JP
Manganese, Total	170	mg/kg	0.72	1	6010B	12-Oct	13-Oct	LP
Mercury, Total	ND	mg/kg	0.45	1	7471A	13-Oct	14-Oct	TT
Nickel, Total	12.	mg/kg	1.8	1	6010B	12-Oct	12-Oct	IG
Potassium, Total	650	mg/kg	180	1	6010B	12-Oct	14-Oct	LP
Selenium, Total	ND	mg/kg	1.4	1	6010B	12-Oct	12-Oct	MG
Silver, Total	3.4	mg/kg	0.72	1	6010B	12-Oct	12-Oct	IG
Sodium, Total	100	mg/kg	36.	1	6010B	12-Oct	13-Oct	JP
Thallium, Total	ND	mg/kg	1.4	1	6010B	12-Oct	12-Oct	MG
Tin, Total	ND	mg/kg	36.	1	6010B	12-Oct	14-Oct	LP
Vanadium, Total	21.	mg/kg	0.72	1	6010B	12-Oct	12-Oct	IG
Zinc, Total	47.	mg/kg	3.6	1	6010B	12-Oct	12-Oct	IG
PAH by GC/MS SIM 8270M				1	8270C-M	08-Oct	14-Oct	JK
Acenaphthene	ND	ug/kg	73.					
2-Chloronaphthalene	ND	ug/kg	73.					
Fluoranthene	680	ug/kg	73.					
Naphthalene	200	ug/kg	73.					
Benzo(a)anthracene	840	ug/kg	73.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9908139-08
T-2-D (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	08-Oct 14-Oct	MK
Benzo (a, e) pyrene	520	ug/kg	73.				
Benzo (b) fluoranthene	520	ug/kg	73.				
Benzo (k) fluoranthene	350	ug/kg	73.				
Chrysene	1300	ug/kg	73.				
Acenaphthylene	ND	ug/kg	73.				
Anthracene	ND	ug/kg	73.				
Benzo (ghi) perylene	480	ug/kg	73.				
Fluorene	ND	ug/kg	73.				
Phenanthrene	540	ug/kg	73.				
Dibenzo (a, h) anthracene	160	ug/kg	73.				
Indeno (1, 2, 3-cd) Pyrene	300	ug/kg	73.				
Pyrene	1200	ug/kg	73.				
1-Methylnaphthalene	ND	ug/kg	73.				
2-Methylnaphthalene	ND	ug/kg	73.				
Perylene	110	ug/kg	73.				
Biphenyl	ND	ug/kg	73.				
Surrogate Recovery							
Nitrobenzene-d5	74.0	%					
2-Fluorobiphenyl	66.0	%					
4-Terphenyl-d14	68.0	%					
Polychlorinated Biphenyls				1	8082	08-Oct 13-Oct	PB
Aroclor 1221	ND	ug/kg	454.				
Aroclor 1232	ND	ug/kg	454.				
Aroclor 1242/1016	ND	ug/kg	454.				
Aroclor 1248	ND	ug/kg	454.				
Aroclor 1254	ND	ug/kg	454.				
Aroclor 1260	ND	ug/kg	454.				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	125.	%					
Decachlorobiphenyl	64.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-08
T-2-D (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Extractable Petroleum Hydrocarbons				46	98-1	09-Oct 14-Oct	PA

Quality Control Information

Condition of sample received: Satisfactory
 Sample temperature upon receipt: Received on Ice
 Sample extraction method: Extracted Per the Method
 Were all QA/QC procedures REQUIRED by the method followed? YES
 Were all performance/acceptance standards for the required procedures achieved? YES
 Were significant modifications made to the method as specified in Sect 11.3? NO
 Please note to subtract the method blank from the stated result.
 The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.
 The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.

C9-C18 Aliphatics	19.4	mg/kg	18.2
C19-C36 Aliphatics	150.	mg/kg	18.2
C11-C22 Aromatics	105.	mg/kg	18.2

Surrogate Recovery

Chloro-Octadecane	112.	%
o-Terphenyl	106.	%
2-Fluorobiphenyl	107.	%
2-Bromonaphthalene	88.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908139-09 Date Collected: 07-OCT-1999
 T-2-D (12-18") Date Received : 07-OCT-1999
 Sample Matrix: SOIL Date Reported : 15-OCT-99
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber Glass,2-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Solids, Total	51.	%	0.10	30	2540G		12-Oct	KK
Chromium, Hexavalent	ND	mg/kg	4.9	1	7196A		14-Oct	ST
Total Metals					1	3051		
Aluminum, Total	6300	mg/kg	7.7	1	6010B		12-Oct 13-Oct	LP
Antimony, Total	ND	mg/kg	3.8	1	6010B		12-Oct 12-Oct	MG
Arsenic, Total	13.	mg/kg	0.77	1	6010B		12-Oct 12-Oct	MG
Barium, Total	24.	mg/kg	0.77	1	6010B		12-Oct 12-Oct	MG
Beryllium, Total	0.50	mg/kg	0.38	1	6010B		12-Oct 12-Oct	MG
Cadmium, Total	0.744	mg/kg	0.385	1	6010B		12-Oct 12-Oct	MG
Calcium, Total	1700	mg/kg	38.	1	6010B		12-Oct 13-Oct	LF
Chromium, Total	62.	mg/kg	0.77	1	6010B		12-Oct 12-Oct	MG
Cobalt, Total	3.5	mg/kg	1.5	1	6010B		12-Oct 12-Oct	MG
Copper, Total	77.	mg/kg	0.77	1	6010B		12-Oct 12-Oct	MG
Iron, Total	7400	mg/kg	3.8	1	6010B		12-Oct 13-Oct	LP
Lead, Total	30.	mg/kg	3.8	1	6010B		12-Oct 12-Oct	MG
Magnesium, Total	1900	mg/kg	7.7	1	6010B		12-Oct 13-Oct	LP
Manganese, Total	230	mg/kg	0.77	1	6010B		12-Oct 13-Oct	LP
Mercury, Total	ND	mg/kg	0.49	1	7471A		13-Oct 14-Oct	TT
Nickel, Total	9.1	mg/kg	1.9	1	6010B		12-Oct 12-Oct	MG
Potassium, Total	640	mg/kg	190	1	6010B		12-Oct 14-Oct	LP
Selenium, Total	ND	mg/kg	1.5	1	6010B		12-Oct 12-Oct	MG
Silver, Total	2.7	mg/kg	0.77	1	6010B		12-Oct 12-Oct	MG
Sodium, Total	130	mg/kg	38.	1	6010B		12-Oct 13-Oct	LP
Thallium, Total	ND	mg/kg	1.5	1	6010B		12-Oct 12-Oct	MG
Tin, Total	ND	mg/kg	38.	1	6010B		12-Oct 14-Oct	LP
Vanadium, Total	16.	mg/kg	0.77	1	6010B		12-Oct 12-Oct	MG
Zinc, Total	41.	mg/kg	3.8	1	6010B		12-Oct 12-Oct	MG
PAH by GC/MS SIM 8270M					1	8270C-M	08-Oct 14-Oct	MK
Acenaphthene	ND	ug/kg	39.					
2-Chloronaphthalene	ND	ug/kg	39.					
Fluoranthene	210	ug/kg	39.					
Naphthalene	ND	ug/kg	39.					
Benzo (a)anthracene	210	ug/kg	39.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-09
T-2-D (12-18")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	
PAH by GC/MS SIM 8270M continued				1	8270C-M	08-Oct 14-Oct	IK
Benzo (a, e) pyrene	170	ug/kg	39.				
Benzo (b) fluoranthene	150	ug/kg	39.				
Benzo (k) fluoranthene	100	ug/kg	39.				
Chrysene	320	ug/kg	39.				
Acenaphthylene	ND	ug/kg	39.				
Anthracene	ND	ug/kg	39.				
Benzo (ghi) perylene	120	ug/kg	39.				
Fluorene	ND	ug/kg	39.				
Phenanthrene	130	ug/kg	39.				
Dibenzo (a, h) anthracene	45.	ug/kg	39.				
Indeno (1, 2, 3-cd) Pyrene	87.	ug/kg	39.				
Pyrene	310	ug/kg	39.				
1-Methylnaphthalene	ND	ug/kg	39.				
2-Methylnaphthalene	ND	ug/kg	39.				
Perylene	ND	ug/kg	39.				
Biphenyl	ND	ug/kg	39.				
Surrogate Recovery							
Nitrobenzene-d5	51.0	%					
2-Fluorobiphenyl	50.0	%					
4-Terphenyl-d14	55.0	%					
Polychlorinated Biphenyls				1	8082	08-Oct 13-Oct	
Aroclor 1221	ND	ug/kg	490.				
Aroclor 1232	ND	ug/kg	490.				
Aroclor 1242/1016	ND	ug/kg	490.				
Aroclor 1248	ND	ug/kg	490.				
Aroclor 1254	ND	ug/kg	490.				
Aroclor 1260	ND	ug/kg	490.				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	119.	%					
Decachlorobiphenyl	58.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908139-10 Date Collected: 07-OCT-1999
 T-2-6 (0-6") Date Received : 07-OCT-1999
 Sample Matrix: SOIL Date Reported : 15-OCT-99
 Condition of Sample: Satisfactory Field Prep: None

Number & Type of Containers: 1-40ml VOA,2-Amber Glass,2-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Solids, Total	62.	%	0.10	30	2540G		12-Oct	KK
Chromium, Hexavalent	ND	mg/kg	2.0	1	7196A		14-Oct	ST
Total Metals				1	3051			
Aluminum, Total	5800	mg/kg	6.4	1	6010B		12-Oct 14-Oct	LP
Antimony, Total	ND	mg/kg	3.2	1	6010B		12-Oct 13-Oct	MG
Arsenic, Total	7.8	mg/kg	0.64	1	6010B		12-Oct 13-Oct	MG
Barium, Total	53.	mg/kg	0.64	1	6010B		12-Oct 13-Oct	MG
Beryllium, Total	0.34	mg/kg	0.32	1	6010B		12-Oct 13-Oct	MG
Cadmium, Total	1.5	mg/kg	0.64	1	6010B		12-Oct 13-Oct	MG
Calcium, Total	1600	mg/kg	32.	1	6010B		12-Oct 14-Oct	LP
Chromium, Total	120	mg/kg	0.64	1	6010B		12-Oct 13-Oct	MG
Cobalt, Total	5.2	mg/kg	1.3	1	6010B		12-Oct 13-Oct	MG
Copper, Total	540	mg/kg	0.64	1	6010B		12-Oct 13-Oct	MG
Iron, Total	13000	mg/kg	3.2	1	6010B		12-Oct 14-Oct	LP
Lead, Total	290	mg/kg	3.2	1	6010B		12-Oct 13-Oct	MG
Magnesium, Total	2500	mg/kg	6.4	1	6010B		12-Oct 14-Oct	LP
Manganese, Total	170	mg/kg	0.64	1	6010B		12-Oct 14-Oct	LP
Mercury, Total	0.42	mg/kg	0.40	1	7471A		13-Oct 14-Oct	TT
Nickel, Total	17.	mg/kg	1.6	1	6010B		12-Oct 13-Oct	MG
Potassium, Total	720	mg/kg	160	1	6010B		12-Oct 14-Oct	LP
Selenium, Total	ND	mg/kg	1.3	1	6010B		12-Oct 13-Oct	MG
Silver, Total	9.2	mg/kg	0.64	1	6010B		15-Oct 15-Oct	LP
Sodium, Total	180	mg/kg	32.	1	6010B		12-Oct 14-Oct	LP
Thallium, Total	ND	mg/kg	1.3	1	6010B		12-Oct 13-Oct	MG
Tin, Total	ND	mg/kg	32.	1	6010B		12-Oct 14-Oct	LP
Vanadium, Total	43.	mg/kg	0.64	1	6010B		12-Oct 13-Oct	MG
Zinc, Total	260	mg/kg	3.2	1	6010B		12-Oct 13-Oct	MG
PAH by GC/MS SIM 8270M				1	8270C-M		08-Oct 14-Oct	MK
Acenaphthene	22000	ug/kg	640					
2-Chloronaphthalene	ND	ug/kg	640					
Fluoranthene	180000	ug/kg	640					
Naphthalene	6200	ug/kg	640					
Benzo(a)anthracene	78000	ug/kg	640					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-10
T-2-6 (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
PAH by GC/MS SIM 8270M continued				1	8270C-M	08-Oct	14-Oct	TK
Benzo (a, e) pyrene	80000	ug/kg	640					
Benzo (b) fluoranthene	84000	ug/kg	640					
Benzo (k) fluoranthene	68000	ug/kg	640					
Chrysene	95000	ug/kg	640					
Acenaphthylene	2300	ug/kg	640					
Anthracene	35000	ug/kg	640					
Benzo (ghi) perylene	56000	ug/kg	640					
Fluorene	19000	ug/kg	640					
Phenanthrene	140000	ug/kg	640					
Dibenzo (a, h) anthracene	18000	ug/kg	640					
Indeno (1, 2, 3-cd) Pyrene	58000	ug/kg	640					
Pyrene	140000	ug/kg	640					
1-Methylnaphthalene	4400	ug/kg	640					
2-Methylnaphthalene	5700	ug/kg	640					
Perylene	16000	ug/kg	640					
Biphenyl	1600	ug/kg	640					
Surrogate Recovery								
Nitrobenzene-d5	68.0	%						
2-Fluorobiphenyl	91.0	%						
4-Terphenyl-d14	114.	%						
Polychlorinated Biphenyls				1	8082	08-Oct	13-Oct	
Aroclor 1221	ND	ug/kg	404.					
Aroclor 1232	ND	ug/kg	404.					
Aroclor 1242/1016	ND	ug/kg	404.					
Aroclor 1248	ND	ug/kg	404.					
Aroclor 1254	ND	ug/kg	404.					
Aroclor 1260	5280	ug/kg	404.					
Surrogate Recovery								
2,4,5,6-Tetrachloro-m-xylene	118.	%						
Decachlorobiphenyl	66.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9908139-10
T-2-6 (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
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Volatile Petroleum Hydrocarbons				47	98-1	14-Oct	JC
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Quality Control Information

Condition of sample received:	Satisfactory	
Sample temperature upon receipt:	Received on Ice	
Were samples received in methanol?	Covering the Soil	
Methanol ratio:	1:1 +/- 25%	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
Please note to subtract the method blank from the stated result.		
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.		

C5-C8 Aliphatics	ND	mg/kg	2.20
C9-C12 Aliphatics	ND	mg/kg	2.20
C9-C10 Aromatics	ND	mg/kg	2.20
C5-C8 Aliphatics, Adjusted	ND	mg/kg	2.20
C9-C12 Aliphatics, Adjusted	ND	mg/kg	2.20
Benzene	ND	mg/kg	0.220
Toluene	ND	mg/kg	0.220
Ethylbenzene	ND	mg/kg	0.220
p/m-Xylene	ND	mg/kg	0.220
o-Xylene	ND	mg/kg	0.220
Methyl tert butyl ether	ND	mg/kg	2.20
Naphthalene	ND	mg/kg	2.20

Surrogate Recovery

2,5-Dibromotoluene	87.0	%	
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Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-10
T-2-6 (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Extractable Petroleum Hydrocarbons				46	98-1	09-Oct 15-Oct 72

Quality Control Information

Condition of sample received: Satisfactory
 Sample temperature upon receipt: Received on Ice
 Sample extraction method: Extracted Per the Method
 Were all QA/QC procedures REQUIRED by the method followed? YES
 Were all performance/acceptance standards for the required procedures achieved? NO
 1. One or more of the extraction surrogate recoveries were greater than 140%.
 Were significant modifications made to the method as specified in Sect 11.3? NO
 Please note to subtract the method blank from the stated result.
 The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.
 The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.

C9-C18 Aliphatics	ND	mg/kg	48.4
C19-C36 Aliphatics	2100	mg/kg	48.4
C11-C22 Aromatics	2210	mg/kg	48.4

Surrogate Recovery

Chloro-Octadecane	138.	%
o-Terphenyl	282.	%
2-Fluorobiphenyl	96.0	%
2-Bromonaphthalene	77.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-11
T-2-A (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	12-Oct 15-Oct	AK
Benzo(a,e)pyrene	12000	ug/kg	510				
Benzo(b)fluoranthene	14000	ug/kg	510				
Benzo(k)fluoranthene	12000	ug/kg	510				
Chrysene	14000	ug/kg	510				
Acenaphthylene	ND	ug/kg	510				
Anthracene	2000	ug/kg	510				
Benzo(ghi)perylene	11000	ug/kg	510				
Fluorene	580	ug/kg	510				
Phenanthrene	11000	ug/kg	510				
Dibenzo(a,h)anthracene	3200	ug/kg	510				
Indeno(1,2,3-cd)Pyrene	11000	ug/kg	510				
Pyrene	18000	ug/kg	510				
1-Methylnaphthalene	ND	ug/kg	510				
2-Methylnaphthalene	ND	ug/kg	510				
Perylene	2400	ug/kg	510				
Biphenyl	ND	ug/kg	510				
Surrogate Recovery							
Nitrobenzene-d5	59.0	%					
2-Fluorobiphenyl	61.0	%					
4-Terphenyl-d14	69.0	%					
Polychlorinated Biphenyls				1	8082	08-Oct 13-Oct	PB
Aroclor 1221	ND	ug/kg	3200				
Aroclor 1232	ND	ug/kg	3200				
Aroclor 1242/1016	ND	ug/kg	3200				
Aroclor 1248	ND	ug/kg	3200				
Aroclor 1254	ND	ug/kg	3200				
Aroclor 1260	21000	ug/kg	3200				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	128.	%					
Decachlorobiphenyl	714.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-11
T-2-A (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
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Volatile Petroleum Hydrocarbons				47	98-1	14-Oct	JC
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Quality Control Information

Condition of sample received:	Satisfactory	
Sample temperature upon receipt:	Received on Ice	
Were samples received in methanol?	Covering the Soil	
Methanol ratio:	1:1 +/- 25%	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
Please note to subtract the method blank from the stated result.		
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.		

C5-C8 Aliphatics	ND	mg/kg	2.98
C9-C12 Aliphatics	ND	mg/kg	2.98
C9-C10 Aromatics	ND	mg/kg	2.98
C5-C8 Aliphatics, Adjusted	ND	mg/kg	2.98
C9-C12 Aliphatics, Adjusted	ND	mg/kg	2.98
Benzene	ND	mg/kg	0.298
Toluene	ND	mg/kg	0.298
Ethylbenzene	ND	mg/kg	0.298
p/m-Xylene	ND	mg/kg	0.298
o-Xylene	ND	mg/kg	0.298
Methyl tert butyl ether	ND	mg/kg	2.98
Naphthalene	ND	mg/kg	2.98

Surrogate Recovery

2,5-Dibromotoluene	75.0	%	
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Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9908139-11
T-2-A (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	TD
Extractable Petroleum Hydrocarbons				46	98-1	09-Oct 15-Oct	JA

Quality Control Information

Condition of sample received: Satisfactory
 Sample temperature upon receipt: Received on Ice
 Sample extraction method: Extracted Per the Method
 Were all QA/QC procedures REQUIRED by the method followed? YES
 Were all performance/acceptance standards for the required procedures achieved? NO
 1. One or more of the extraction surrogate recoveries were greater than 140%.
 Were significant modifications made to the method as specified in Sect 11.3? NO
 Please note to subtract the method blank from the stated result.
 The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.
 The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.

C9-C18 Aliphatics	310.	mg/kg	25.6
C19-C36 Aliphatics	4730	mg/kg	25.6
C11-C22 Aromatics	973.	mg/kg	25.6

Surrogate Recovery

Chloro-Octadecane	124.	%
o-Terphenyl	194.	%
2-Fluorobiphenyl	105.	%
2-Bromonaphthalene	78.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908139-12
 T-2-A (12-18")
 Sample Matrix: SOIL
 Condition of Sample: Satisfactory
 Number & Type of Containers: 3-Glass

Date Collected: 06-OCT-1999
 Date Received : 07-OCT-1999
 Date Reported : 15-OCT-99
 Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID	
Solids, Total	45.	%	0.10	30	2540G	12-Oct	KK	
Chromium, Hexavalent	ND	mg/kg	2.8	1	7196A	14-Oct	ST	
Total Metals					1	3051		
Aluminum, Total	23000	mg/kg	8.7	1	6010B	12-Oct 14-Oct	LP	
Antimony, Total	ND	mg/kg	4.4	1	6010B	12-Oct 13-Oct	MG	
Arsenic, Total	35.	mg/kg	0.87	1	6010B	12-Oct 13-Oct	MG	
Barium, Total	94.	mg/kg	0.87	1	6010B	12-Oct 13-Oct	MG	
Beryllium, Total	1.4	mg/kg	0.44	1	6010B	12-Oct 13-Oct	MG	
Cadmium, Total	6.0	mg/kg	0.87	1	6010B	12-Oct 13-Oct	MG	
Calcium, Total	1400	mg/kg	44.	1	6010B	12-Oct 14-Oct	LP	
Chromium, Total	440	mg/kg	0.87	1	6010B	12-Oct 13-Oct	MG	
Cobalt, Total	13.	mg/kg	1.7	1	6010B	12-Oct 13-Oct	MG	
Copper, Total	600	mg/kg	0.87	1	6010B	12-Oct 13-Oct	MG	
Iron, Total	23000	mg/kg	4.4	1	6010B	12-Oct 14-Oct	LP	
Lead, Total	120	mg/kg	4.4	1	6010B	12-Oct 13-Oct	MG	
Magnesium, Total	5100	mg/kg	8.7	1	6010B	12-Oct 14-Oct	LP	
Manganese, Total	300	mg/kg	0.87	1	6010B	12-Oct 14-Oct	LP	
Mercury, Total	ND	mg/kg	0.56	1	7471A	13-Oct 14-Oct	TT	
Nickel, Total	35.	mg/kg	2.2	1	6010B	12-Oct 13-Oct	MG	
Potassium, Total	1700	mg/kg	220	1	6010B	12-Oct 14-Oct	LP	
Selenium, Total	ND	mg/kg	1.7	1	6010B	12-Oct 13-Oct	MG	
Silver, Total	45.	mg/kg	0.89	1	6010B	15-Oct 15-Oct	LP	
Sodium, Total	200	mg/kg	44.	1	6010B	12-Oct 14-Oct	LP	
Thallium, Total	ND	mg/kg	1.7	1	6010B	12-Oct 13-Oct	MG	
Tin, Total	ND	mg/kg	44.	1	6010B	12-Oct 14-Oct	LP	
Vanadium, Total	71.	mg/kg	0.87	1	6010B	12-Oct 13-Oct	MG	
Zinc, Total	290	mg/kg	4.4	1	6010B	12-Oct 13-Oct	MG	
PAH by GC/MS SIM 8270M					1	8270C-M	08-Oct 14-Oct	MK
Acenaphthene	ND	ug/kg	110					
2-Chloronaphthalene	ND	ug/kg	110					
Fluoranthene	390	ug/kg	110					
Naphthalene	ND	ug/kg	110					
Benzo(a)anthracene	160	ug/kg	110					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-12
T-2-A (12-18")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	TD
PAH by GC/MS SIM 8270M continued				1	8270C-M	08-Oct 14-Oct	"
Benzo (a, e) pyrene	160	ug/kg	110				
Benzo (b) fluoranthene	210	ug/kg	110				
Benzo (k) fluoranthene	190	ug/kg	110				
Chrysene	250	ug/kg	110				
Acenaphthylene	ND	ug/kg	110				
Anthracene	ND	ug/kg	110				
Benzo (ghi) perylene	150	ug/kg	110				
Fluorene	ND	ug/kg	110				
Phenanthrene	190	ug/kg	110				
Dibenzo (a, h) anthracene	ND	ug/kg	110				
Indeno (1, 2, 3-cd) Pyrene	140	ug/kg	110				
Pyrene	340	ug/kg	110				
1-Methylnaphthalene	ND	ug/kg	110				
2-Methylnaphthalene	ND	ug/kg	110				
Perylene	ND	ug/kg	110				
Biphenyl	ND	ug/kg	110				
Surrogate Recovery							
Nitrobenzene-d5	46.0	%					
2-Fluorobiphenyl	46.0	%					
4-Terphenyl-d14	57.0	%					
Polychlorinated Biphenyls				1	8082	08-Oct 13-Oct	PB
Aroclor 1221	ND	ug/kg	556.				
Aroclor 1232	ND	ug/kg	556.				
Aroclor 1242/1016	ND	ug/kg	556.				
Aroclor 1248	ND	ug/kg	556.				
Aroclor 1254	ND	ug/kg	556.				
Aroclor 1260	728.	ug/kg	556.				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	117.	%					
Decachlorobiphenyl	72.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908139-13
 T-2-A (18+")
 Sample Matrix: SOIL
 Condition of Sample: Satisfactory
 Number & Type of Containers: 3-Glass

Date Collected: 06-OCT-1999
 Date Received : 07-OCT-1999
 Date Reported : 15-OCT-99
 Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID	
Solids, Total	65.	%	0.10	30	2540G	12-Oct	KK	
Chromium, Hexavalent	ND	mg/kg	0.77	1	7196A	14-Oct	ST	
Total Metals					1	3051		
Aluminum, Total	12000	mg/kg	6.1	1	6010B	12-Oct 14-Oct	LP	
Antimony, Total	ND	mg/kg	3.0	1	6010B	12-Oct 13-Oct	MG	
Arsenic, Total	14.	mg/kg	0.61	1	6010B	12-Oct 13-Oct	MG	
Barium, Total	54.	mg/kg	0.61	1	6010B	12-Oct 13-Oct	MG	
Beryllium, Total	0.86	mg/kg	0.30	1	6010B	12-Oct 13-Oct	MG	
Cadmium, Total	1.5	mg/kg	0.61	1	6010B	12-Oct 13-Oct	MG	
Calcium, Total	1000	mg/kg	30.	1	6010B	12-Oct 14-Oct	LP	
Chromium, Total	270	mg/kg	0.61	1	6010B	12-Oct 13-Oct	MG	
Cobalt, Total	7.1	mg/kg	1.2	1	6010B	12-Oct 13-Oct	MG	
Copper, Total	270	mg/kg	0.61	1	6010B	12-Oct 13-Oct	MG	
Iron, Total	12000	mg/kg	3.0	1	6010B	12-Oct 14-Oct	LP	
Lead, Total	57.	mg/kg	3.0	1	6010B	12-Oct 13-Oct	MG	
Magnesium, Total	2600	mg/kg	6.1	1	6010B	12-Oct 14-Oct	LP	
Manganese, Total	190	mg/kg	0.61	1	6010B	12-Oct 14-Oct	LP	
Mercury, Total	0.82	mg/kg	0.38	1	7471A	13-Oct 14-Oct	TT	
Nickel, Total	16.	mg/kg	1.5	1	6010B	12-Oct 13-Oct	MG	
Potassium, Total	970	mg/kg	150	1	6010B	12-Oct 14-Oct	LP	
Selenium, Total	ND	mg/kg	1.2	1	6010B	12-Oct 13-Oct	MG	
Silver, Total	13.	mg/kg	0.61	1	6010B	15-Oct 15-Oct	LP	
Sodium, Total	140	mg/kg	30.	1	6010B	12-Oct 14-Oct	LP	
Thallium, Total	ND	mg/kg	1.2	1	6010B	12-Oct 13-Oct	MG	
Tin, Total	ND	mg/kg	30.	1	6010B	12-Oct 14-Oct	LP	
Vanadium, Total	31.	mg/kg	0.61	1	6010B	12-Oct 13-Oct	MG	
Zinc, Total	110	mg/kg	3.0	1	6010B	12-Oct 13-Oct	MG	
PAH by GC/MS SIM 8270M					1	8270C-M	08-Oct 15-Oct	MK
Acenaphthene	ND	ug/kg	31.					
2-Chloronaphthalene	ND	ug/kg	31.					
Fluoranthene	190	ug/kg	31.					
Naphthalene	39.	ug/kg	31.					
Benzo(a)anthracene	71.	ug/kg	31.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-13
T-2-A (18+)

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	II
PAH by GC/MS SIM 8270M continued				1	8270C-M	08-Oct 15-Oct	TK
Benzo(a,e)pyrene	90.	ug/kg	31.				
Benzo(b)fluoranthene	140	ug/kg	31.				
Benzo(k)fluoranthene	110	ug/kg	31.				
Chrysene	140	ug/kg	31.				
Acenaphthylene	ND	ug/kg	31.				
Anthracene	ND	ug/kg	31.				
Benzo(ghi)perylene	100	ug/kg	31.				
Fluorene	ND	ug/kg	31.				
Phenanthrene	82.	ug/kg	31.				
Dibenzo(a,h)anthracene	ND	ug/kg	31.				
Indeno(1,2,3-cd)Pyrene	99.	ug/kg	31.				
Pyrene	160	ug/kg	31.				
1-Methylnaphthalene	ND	ug/kg	31.				
2-Methylnaphthalene	ND	ug/kg	31.				
Perylene	ND	ug/kg	31.				
Biphenyl	ND	ug/kg	31.				
Surrogate Recovery							
Nitrobenzene-d5	52.0	%					
2-Fluorobiphenyl	51.0	%					
4-Terphenyl-d14	59.0	%					
Polychlorinated Biphenyls				1	8082	08-Oct 13-Oct	FB
Aroclor 1221	ND	ug/kg	384.				
Aroclor 1232	ND	ug/kg	384.				
Aroclor 1242/1016	ND	ug/kg	384.				
Aroclor 1248	ND	ug/kg	384.				
Aroclor 1254	ND	ug/kg	384.				
Aroclor 1260	750.	ug/kg	384.				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	111.	%					
Decachlorobiphenyl	64.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908139-14
 T-2-8 (0-6")
 Sample Matrix: SOIL
 Condition of Sample: Satisfactory
 Date Collected: 06-OCT-1999
 Date Received : 07-OCT-1999
 Date Reported : 15-OCT-99
 Field Prep: None

Number & Type of Containers: 1-40ml VOA,1-Amber Glass,3-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Solids, Total	17.	%	0.10	30	2540G		12-Oct	KK
Chromium, Hexavalent	ND	mg/kg	15.	1	7196A		14-Oct	ST
Total Metals				1	3051			
Aluminum, Total	6700	mg/kg	23.	1	6010B	12-Oct	14-Oct	LP
Antimony, Total	26.	mg/kg	12.	1	6010B	12-Oct	13-Oct	MG
Arsenic, Total	40.	mg/kg	2.3	1	6010B	12-Oct	13-Oct	MG
Barium, Total	350	mg/kg	2.3	1	6010B	12-Oct	13-Oct	MG
Beryllium, Total	ND	mg/kg	1.2	1	6010B	12-Oct	13-Oct	MG
Cadmium, Total	8.1	mg/kg	2.3	1	6010B	12-Oct	13-Oct	MG
Calcium, Total	11000	mg/kg	120	1	6010B	12-Oct	14-Oct	LP
Chromium, Total	8300	mg/kg	2.3	1	6010B	12-Oct	13-Oct	MG
Cobalt, Total	ND	mg/kg	4.6	1	6010B	12-Oct	13-Oct	MG
Copper, Total	8100	mg/kg	2.3	1	6010B	12-Oct	13-Oct	MG
Iron, Total	44000	mg/kg	12.	1	6010B	12-Oct	14-Oct	LP
Lead, Total	1200	mg/kg	12.	1	6010B	12-Oct	13-Oct	MG
Magnesium, Total	2600	mg/kg	23.	1	6010B	12-Oct	14-Oct	LP
Manganese, Total	610	mg/kg	2.3	1	6010B	12-Oct	14-Oct	LP
Mercury, Total	6.5	mg/kg	1.5	1	7471A	13-Oct	14-Oct	TT
Nickel, Total	24.	mg/kg	5.8	1	6010B	12-Oct	13-Oct	MG
Potassium, Total	ND	mg/kg	580	1	6010B	12-Oct	14-Oct	LP
Selenium, Total	ND	mg/kg	4.6	1	6010B	12-Oct	13-Oct	MG
Silver, Total	540	mg/kg	2.3	1	6010B	15-Oct	15-Oct	LP
Sodium, Total	440	mg/kg	120	1	6010B	12-Oct	14-Oct	LP
Thallium, Total	ND	mg/kg	4.6	1	6010B	12-Oct	13-Oct	MG
Tin, Total	310	mg/kg	12.	1	6010B	12-Oct	14-Oct	LP
Vanadium, Total	140	mg/kg	2.3	1	6010B	12-Oct	13-Oct	MG
Zinc, Total	470	mg/kg	12.	1	6010B	12-Oct	13-Oct	MG
PAH by GC/MS SIM 8270M				1	8270C-M	08-Oct	15-Oct	MK
Acenaphthene	ND	ug/kg	240					
2-Chloronaphthalene	ND	ug/kg	240					
Fluoranthene	2000	ug/kg	240					
Naphthalene	ND	ug/kg	240					
Benzo(a)anthracene	880	ug/kg	240					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-14
T-2-8 (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
PAH by GC/MS SIM 8270M continued				1	8270C-M	08-Oct 15-Oct
Benzo (a, e) pyrene	1100	ug/kg	240			
Benzo (b) fluoranthene	1500	ug/kg	240			
Benzo (k) fluoranthene	1200	ug/kg	240			
Chrysene	1400	ug/kg	240			
Acenaphthylene	ND	ug/kg	240			
Anthracene	300	ug/kg	240			
Benzo (ghi) perylene	1400	ug/kg	240			
Fluorene	ND	ug/kg	240			
Phenanthrene	680	ug/kg	240			
Dibenzo (a, h) anthracene	350	ug/kg	240			
Indeno (1, 2, 3-cd) Pyrene	1300	ug/kg	240			
Pyrene	1800	ug/kg	240			
1-Methylnaphthalene	ND	ug/kg	240			
2-Methylnaphthalene	ND	ug/kg	240			
Perylene	240	ug/kg	240			
Biphenyl	ND	ug/kg	240			
Surrogate Recovery						
Nitrobenzene-d5	43.0	%				
2-Fluorobiphenyl	46.0	%				
4-Terphenyl-d14	54.0	%				
Polychlorinated Biphenyls				1	8082	08-Oct 13-Oct
Aroclor 1221	ND	ug/kg	1470			
Aroclor 1232	ND	ug/kg	1470			
Aroclor 1242/1016	ND	ug/kg	1470			
Aroclor 1248	ND	ug/kg	1470			
Aroclor 1254	ND	ug/kg	1470			
Aroclor 1260	10300	ug/kg	1470			
Surrogate Recovery						
2,4,5,6-Tetrachloro-m-xylene	84.0	%				
Decachlorobiphenyl	33.0	%				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-14
T-2-8 (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
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Volatile Petroleum Hydrocarbons				47	98-1	15-Oct	JC
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Quality Control Information

Condition of sample received:	Satisfactory	
Sample temperature upon receipt:	Received on Ice	
Were samples received in methanol?	Covering the Soil	
Methanol ratio:	1:1 +/- 25%	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
Please note to subtract the method blank from the stated result.		
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.		

C5-C8 Aliphatics	ND	mg/kg	7.12
C9-C12 Aliphatics	ND	mg/kg	7.12
C9-C10 Aromatics	ND	mg/kg	7.12
C5-C8 Aliphatics, Adjusted	ND	mg/kg	7.12
C9-C12 Aliphatics, Adjusted	ND	mg/kg	7.12
Benzene	ND	mg/kg	0.712
Toluene	ND	mg/kg	0.712
Ethylbenzene	ND	mg/kg	0.712
p/m-Xylene	ND	mg/kg	0.712
o-Xylene	ND	mg/kg	0.712
Methyl tert butyl ether	ND	mg/kg	7.12
Naphthalene	ND	mg/kg	7.12

Surrogate Recovery

2,5-Dibromotoluene	104.	%	
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Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-14
T-2-8 (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Extractable Petroleum Hydrocarbons				46	98-1	09-Oct 15-Oct

Quality Control Information

Condition of sample received: Satisfactory
 Sample temperature upon receipt: Received on Ice
 Sample extraction method: Extracted Per the Method
 Were all QA/QC procedures REQUIRED by the method followed? YES
 Were all performance/acceptance standards for the required procedures achieved? YES
 Were significant modifications made to the method as specified in Sect 11.3? NO
 Please note to subtract the method blank from the stated result.
 The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.
 The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.

C9-C18 Aliphatics	654.	mg/kg	58.8
C19-C36 Aliphatics	2300	mg/kg	58.8
C11-C22 Aromatics	523.	mg/kg	58.8

Surrogate Recovery

Chloro-Octadecane	84.0	%
o-Terphenyl	96.0	%
2-Fluorobiphenyl	105.	%
2-Bromonaphthalene	99.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908139-15 Date Collected: 06-OCT-1999
 T-2-8 (12-18") Date Received : 07-OCT-1999
 Sample Matrix: SOIL Date Reported : 15-OCT-99
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber Glass,3-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Solids, Total	11.	%	0.10	30	2540G		12-Oct	KK
Chromium, Hexavalent	ND	mg/kg	11.	1	7196A		14-Oct	ST
Total Metals				1	3051			
Aluminum, Total	7400	mg/kg	36.	1	6010B	12-Oct	14-Oct	LP
Antimony, Total	62.	mg/kg	18.	1	6010B	12-Oct	13-Oct	MG
Arsenic, Total	120	mg/kg	3.6	1	6010B	12-Oct	13-Oct	MG
Barium, Total	330	mg/kg	3.6	1	6010B	12-Oct	13-Oct	MG
Beryllium, Total	ND	mg/kg	1.8	1	6010B	12-Oct	13-Oct	MG
Cadmium, Total	44.	mg/kg	3.6	1	6010B	12-Oct	13-Oct	MG
Calcium, Total	5500	mg/kg	180	1	6010B	12-Oct	14-Oct	LP
Chromium, Total	19000	mg/kg	3.6	1	6010B	12-Oct	13-Oct	MG
Cobalt, Total	14.	mg/kg	7.2	1	6010B	12-Oct	13-Oct	MG
Copper, Total	20000	mg/kg	3.6	1	6010B	12-Oct	13-Oct	MG
Iron, Total	73000	mg/kg	18.	1	6010B	12-Oct	14-Oct	LP
Lead, Total	990	mg/kg	18.	1	6010B	12-Oct	13-Oct	MG
Magnesium, Total	1400	mg/kg	36.	1	6010B	12-Oct	14-Oct	LP
Manganese, Total	360	mg/kg	3.6	1	6010B	12-Oct	14-Oct	LP
Mercury, Total	4.5	mg/kg	2.3	1	7471A	13-Oct	14-Oct	TT
Nickel, Total	96.	mg/kg	9.0	1	6010B	12-Oct	13-Oct	MG
Potassium, Total	ND	mg/kg	900	1	6010B	12-Oct	14-Oct	LP
Selenium, Total	ND	mg/kg	7.2	1	6010B	12-Oct	13-Oct	MG
Silver, Total	550	mg/kg	3.6	1	6010B	15-Oct	15-Oct	LP
Sodium, Total	440	mg/kg	180	1	6010B	12-Oct	14-Oct	LP
Thallium, Total	ND	mg/kg	7.2	1	6010B	12-Oct	13-Oct	MG
Tin, Total	510	mg/kg	18.	1	6010B	12-Oct	14-Oct	LP
Vanadium, Total	290	mg/kg	3.6	1	6010B	12-Oct	13-Oct	MG
Zinc, Total	1700	mg/kg	18.	1	6010B	12-Oct	13-Oct	MG
PAH by GC/MS SIM 8270M				1	8270C-M	08-Oct	15-Oct	MK
Acenaphthene	ND	ug/kg	910					
2-Chloronaphthalene	ND	ug/kg	910					
Fluoranthene	7700	ug/kg	910					
Naphthalene	ND	ug/kg	910					
Benzo(a)anthracene	3900	ug/kg	910					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-15
T-2-8 (12-18")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	08-Oct 15-Oct	MY
Benzo (a, e) pyrene	4500	ug/kg	910				
Benzo (b) fluoranthene	6100	ug/kg	910				
Benzo (k) fluoranthene	4800	ug/kg	910				
Chrysene	7900	ug/kg	910				
Acenaphthylene	ND	ug/kg	910				
Anthracene	ND	ug/kg	910				
Benzo (ghi) perylene	3300	ug/kg	910				
Fluorene	ND	ug/kg	910				
Phenanthrene	2000	ug/kg	910				
Dibenzo (a, h) anthracene	1200	ug/kg	910				
Indeno (1, 2, 3-cd) Pyrene	3300	ug/kg	910				
Pyrene	9300	ug/kg	910				
1-Methylnaphthalene	ND	ug/kg	910				
2-Methylnaphthalene	ND	ug/kg	910				
Perylene	ND	ug/kg	910				
Biphenyl	ND	ug/kg	910				
Surrogate Recovery							
Nitrobenzene-d5	54.0	%					
2-Fluorobiphenyl	58.0	%					
4-Terphenyl-d14	60.0	%					
Polychlorinated Biphenyls				1	8082	08-Oct 13-Oct	YB
Aroclor 1221	ND	ug/kg	2280				
Aroclor 1232	ND	ug/kg	2280				
Aroclor 1242/1016	ND	ug/kg	2280				
Aroclor 1248	ND	ug/kg	2280				
Aroclor 1254	ND	ug/kg	2280				
Aroclor 1260	35400	ug/kg	2280				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	63.0	%					
Decachlorobiphenyl	29.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9908139-15
T-2-8 (12-18")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
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Extractable Petroleum Hydrocarbons				46	98-1	09-Oct 15-Oct	JA
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Quality Control Information

Condition of sample received:	Satisfactory	
Sample temperature upon receipt:	Received on Ice	
Sample extraction method:	Extracted Per the Method	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
Please note to subtract the method blank from the stated result.		
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.		
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.		

C9-C18 Aliphatics	6080	mg/kg	90.9
C19-C36 Aliphatics	19400	mg/kg	90.9
C11-C22 Aromatics	10600	mg/kg	90.9

Surrogate Recovery

Chloro-Octadecane	201.	%
o-Terphenyl	128.	%
2-Fluorobiphenyl	111.	%
2-Bromonaphthalene	79.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908139-16
T-2-8 (18+")
Sample Matrix: SOIL

Date Collected: 06-OCT-1999
Date Received : 07-OCT-1999
Date Reported : 15-OCT-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 3-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Solids, Total	44.	%	0.10	30	2540G		12-Oct	K
Chromium, Hexavalent	ND	mg/kg	2.8	1	7196A		14-Oct	T
Total Metals				1	3051			
Aluminum, Total	20000	mg/kg	9.0	1	6010B	12-Oct	14-Oct	P
Antimony, Total	ND	mg/kg	4.5	1	6010B	12-Oct	13-Oct	G
Arsenic, Total	27.	mg/kg	0.90	1	6010B	12-Oct	13-Oct	MG
Barium, Total	86.	mg/kg	0.90	1	6010B	12-Oct	13-Oct	G
Beryllium, Total	1.3	mg/kg	0.45	1	6010B	12-Oct	13-Oct	G
Cadmium, Total	2.1	mg/kg	0.90	1	6010B	12-Oct	13-Oct	MG
Calcium, Total	2500	mg/kg	45.	1	6010B	12-Oct	14-Oct	LP
Chromium, Total	260	mg/kg	0.90	1	6010B	12-Oct	13-Oct	G
Cobalt, Total	13.	mg/kg	1.8	1	6010B	12-Oct	13-Oct	G
Copper, Total	300	mg/kg	0.90	1	6010B	12-Oct	13-Oct	MG
Iron, Total	22000	mg/kg	4.5	1	6010B	12-Oct	14-Oct	P
Lead, Total	82.	mg/kg	4.5	1	6010B	12-Oct	13-Oct	G
Magnesium, Total	5200	mg/kg	9.0	1	6010B	12-Oct	14-Oct	P
Manganese, Total	310	mg/kg	0.90	1	6010B	12-Oct	14-Oct	LP
Mercury, Total	ND	mg/kg	0.57	1	7471A	13-Oct	14-Oct	T
Nickel, Total	28.	mg/kg	2.3	1	6010B	12-Oct	13-Oct	G
Potassium, Total	2100	mg/kg	230	1	6010B	12-Oct	14-Oct	LP
Selenium, Total	ND	mg/kg	1.8	1	6010B	12-Oct	13-Oct	MG
Silver, Total	62.	mg/kg	0.90	1	6010B	15-Oct	15-Oct	P
Sodium, Total	200	mg/kg	45.	1	6010B	12-Oct	14-Oct	P
Thallium, Total	ND	mg/kg	1.8	1	6010B	12-Oct	13-Oct	MG
Tin, Total	ND	mg/kg	45.	1	6010B	12-Oct	14-Oct	LP
Vanadium, Total	45.	mg/kg	0.90	1	6010B	12-Oct	13-Oct	G
Zinc, Total	240	mg/kg	4.5	1	6010B	12-Oct	13-Oct	G
PAH by GC/MS SIM 8270M				1	8270C-M	08-Oct	15-Oct	K
Acenaphthene	ND	ug/kg	180					
2-Chloronaphthalene	ND	ug/kg	180					
Fluoranthene	1800	ug/kg	180					
Naphthalene	ND	ug/kg	180					
Benzo(a)anthracene	750	ug/kg	180					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-16
T-2-8 (18+)

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	08-Oct 15-Oct	MK
Benzo (a, e) pyrene	660	ug/kg	180				
Benzo (b) fluoranthene	730	ug/kg	180				
Benzo (k) fluoranthene	700	ug/kg	180				
Chrysene	1000	ug/kg	180				
Acenaphthylene	ND	ug/kg	180				
Anthracene	230	ug/kg	180				
Benzo (ghi) perylene	450	ug/kg	180				
Fluorene	ND	ug/kg	180				
Phenanthrene	700	ug/kg	180				
Dibenzo (a, h) anthracene	ND	ug/kg	180				
Indeno (1, 2, 3-cd) Pyrene	450	ug/kg	180				
Pyrene	1500	ug/kg	180				
1-Methylnaphthalene	ND	ug/kg	180				
2-Methylnaphthalene	ND	ug/kg	180				
Perylene	ND	ug/kg	180				
Biphenyl	ND	ug/kg	180				

Surrogate Recovery

Nitrobenzene-d5	42.0	%
2-Fluorobiphenyl	39.0	%
4-Terphenyl-d14	55.0	%

Polychlorinated Biphenyls				1	8082	08-Oct 14-Oct	PB
Aroclor 1221	ND	ug/kg	568.				
Aroclor 1232	ND	ug/kg	568.				
Aroclor 1242/1016	ND	ug/kg	568.				
Aroclor 1248	ND	ug/kg	568.				
Aroclor 1254	ND	ug/kg	568.				
Aroclor 1260	2010	ug/kg	568.				

Surrogate Recovery

2,4,5,6-Tetrachloro-m-xylene	110.	%
Decachlorobiphenyl	73.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908139-17
T-2-7 (0-6")
Sample Matrix: SOIL

Date Collected: 06-OCT-1999
Date Received : 07-OCT-1999
Date Reported : 15-OCT-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber Glass,3-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		TD
						PREP	ANALYSIS	
Solids, Total	34.	%	0.10	30	2540G	12-Oct		J K
Chromium, Hexavalent	440	mg/kg	3.7	1	7196A	14-Oct		J T
Total Metals				1	3051			
Aluminum, Total	4000	mg/kg	12.	1	6010B	12-Oct	14-Oct	J P
Antimony, Total	54.	mg/kg	5.8	1	6010B	12-Oct	13-Oct	J G
Arsenic, Total	12.	mg/kg	1.2	1	6010B	12-Oct	13-Oct	J MG
Barium, Total	190	mg/kg	1.2	1	6010B	12-Oct	13-Oct	J G
Beryllium, Total	ND	mg/kg	0.58	1	6010B	12-Oct	13-Oct	J G
Cadmium, Total	13.	mg/kg	1.2	1	6010B	12-Oct	13-Oct	J MG
Calcium, Total	1500	mg/kg	58.	1	6010B	12-Oct	14-Oct	J LP
Chromium, Total	16000	mg/kg	1.2	1	6010B	12-Oct	13-Oct	J G
Cobalt, Total	ND	mg/kg	2.3	1	6010B	12-Oct	13-Oct	J G
Copper, Total	6800	mg/kg	1.2	1	6010B	12-Oct	13-Oct	J MG
Iron, Total	11000	mg/kg	5.8	1	6010B	12-Oct	14-Oct	J P
Lead, Total	870	mg/kg	5.8	1	6010B	12-Oct	13-Oct	J G
Magnesium, Total	1000	mg/kg	12.	1	6010B	12-Oct	14-Oct	J P
Manganese, Total	62.	mg/kg	1.2	1	6010B	12-Oct	14-Oct	J LP
Mercury, Total	6.2	mg/kg	0.74	1	7471A	13-Oct	14-Oct	J T
Nickel, Total	11.	mg/kg	2.9	1	6010B	12-Oct	13-Oct	J G
Potassium, Total	ND	mg/kg	290	1	6010B	12-Oct	14-Oct	J LP
Selenium, Total	2.8	mg/kg	2.3	1	6010B	12-Oct	13-Oct	J MG
Silver, Total	190	mg/kg	1.2	1	6010B	15-Oct	15-Oct	J P
Sodium, Total	95.	mg/kg	58.	1	6010B	12-Oct	14-Oct	J P
Thallium, Total	3.9	mg/kg	2.3	1	6010B	12-Oct	13-Oct	J MG
Tin, Total	310	mg/kg	5.8	1	6010B	12-Oct	14-Oct	J LP
Vanadium, Total	180	mg/kg	1.2	1	6010B	12-Oct	13-Oct	J S
Zinc, Total	170	mg/kg	5.8	1	6010B	12-Oct	13-Oct	J S
PAH by GC/MS SIM 8270M				1	8270C-M	08-Oct	15-Oct	J K
Acenaphthene	350	ug/kg	120					
2-Chloronaphthalene	ND	ug/kg	120					
Fluoranthene	9800	ug/kg	120					
Naphthalene	ND	ug/kg	120					
Benzo(a)anthracene	4800	ug/kg	120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-17
T-2-7 (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	08-Oct 15-Oct	MK
Benzo (a, e) pyrene	5700	ug/kg	120				
Benzo (b) fluoranthene	6500	ug/kg	120				
Benzo (k) fluoranthene	5600	ug/kg	120				
Chrysene	6800	ug/kg	120				
Acenaphthylene	160	ug/kg	120				
Anthracene	990	ug/kg	120				
Benzo (ghi) perylene	4800	ug/kg	120				
Fluorene	290	ug/kg	120				
Phenanthrene	4800	ug/kg	120				
Dibenzo (a, h) anthracene	1500	ug/kg	120				
Indeno (1, 2, 3-cd) Pyrene	4900	ug/kg	120				
Pyrene	7800	ug/kg	120				
1-Methylnaphthalene	ND	ug/kg	120				
2-Methylnaphthalene	ND	ug/kg	120				
Perylene	1100	ug/kg	120				
Biphenyl	ND	ug/kg	120				
Surrogate Recovery							
Nitrobenzene-d5	41.0	%					
2-Fluorobiphenyl	35.0	%					
4-Terphenyl-d14	38.0	%					
Polychlorinated Biphenyls				1	8082	08-Oct 14-Oct	PB
Aroclor 1221	ND	ug/kg	7360				
Aroclor 1232	ND	ug/kg	7360				
Aroclor 1242/1016	ND	ug/kg	7360				
Aroclor 1248	ND	ug/kg	7360				
Aroclor 1254	ND	ug/kg	7360				
Aroclor 1260	67600	ug/kg	7360				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	107.	%					
Decachlorobiphenyl	47.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-17
T-2-7 (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Extractable Petroleum Hydrocarbons				46	98-1	09-Oct 15-Oct

Quality Control Information

Condition of sample received: Satisfactory
 Sample temperature upon receipt: Received on Ice
 Sample extraction method: Extracted Per the Method
 Were all QA/QC procedures REQUIRED by the method followed? YES
 Were all performance/acceptance standards for the required procedures achieved? YES
 Were significant modifications made to the method as specified in Sect 11.3? NO
 Please note to subtract the method blank from the stated result.
 The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.
 The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.

C9-C18 Aliphatics	1400	mg/kg	29.4
C19-C36 Aliphatics	4750	mg/kg	29.4
C11-C22 Aromatics	1390	mg/kg	29.4

Surrogate Recovery

Chloro-Octadecane	153.	%
o-Terphenyl	115.	%
2-Fluorobiphenyl	92.0	%
2-Bromonaphthalene	78.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908139-18
 T-2-7 (12-18")
 Date Collected: 06-OCT-1999
 Date Received : 07-OCT-1999
 Sample Matrix: SOIL
 Date Reported : 15-OCT-99
 Condition of Sample: Satisfactory
 Field Prep: None
 Number & Type of Containers: 1-Amber Glass,3-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Solids, Total	33.	%	0.10	30	2540G		12-Oct	KK
Chromium, Hexavalent	64.	mg/kg	1.5	1	7196A		14-Oct	ST
Total Metals				1	3051			
Aluminum, Total	5800	mg/kg	12.	1	6010B	12-Oct	14-Oct	LP
Antimony, Total	17.	mg/kg	6.0	1	6010B	12-Oct	13-Oct	MG
Arsenic, Total	13.	mg/kg	1.2	1	6010B	12-Oct	13-Oct	MG
Barium, Total	130	mg/kg	1.2	1	6010B	12-Oct	13-Oct	MG
Beryllium, Total	ND	mg/kg	0.60	1	6010B	12-Oct	13-Oct	MG
Cadmium, Total	4.9	mg/kg	1.2	1	6010B	12-Oct	13-Oct	MG
Calcium, Total	1400	mg/kg	60.	1	6010B	12-Oct	14-Oct	LP
Chromium, Total	5300	mg/kg	1.2	1	6010B	12-Oct	13-Oct	MG
Cobalt, Total	3.7	mg/kg	2.4	1	6010B	12-Oct	13-Oct	MG
Copper, Total	3300	mg/kg	1.2	1	6010B	12-Oct	13-Oct	MG
Iron, Total	12000	mg/kg	6.0	1	6010B	12-Oct	14-Oct	LP
Lead, Total	680	mg/kg	6.0	1	6010B	12-Oct	13-Oct	MG
Magnesium, Total	2400	mg/kg	12.	1	6010B	12-Oct	14-Oct	LP
Manganese, Total	100	mg/kg	1.2	1	6010B	12-Oct	14-Oct	LP
Mercury, Total	2.5	mg/kg	0.76	1	7471A	13-Oct	14-Oct	TT
Nickel, Total	15.	mg/kg	3.0	1	6010B	12-Oct	13-Oct	MG
Potassium, Total	740	mg/kg	300	1	6010B	12-Oct	14-Oct	LP
Selenium, Total	ND	mg/kg	2.4	1	6010B	12-Oct	13-Oct	MG
Silver, Total	200	mg/kg	1.2	1	6010B	15-Oct	15-Oct	LP
Sodium, Total	130	mg/kg	60.	1	6010B	12-Oct	14-Oct	LP
Thallium, Total	ND	mg/kg	2.4	1	6010B	12-Oct	13-Oct	MG
Tin, Total	150	mg/kg	6.0	1	6010B	12-Oct	14-Oct	LP
Vanadium, Total	140	mg/kg	1.2	1	6010B	12-Oct	13-Oct	MG
Zinc, Total	120	mg/kg	6.0	1	6010B	12-Oct	13-Oct	MG
PAH by GC/MS SIM 8270M				1	8270C-M	08-Oct	15-Oct	MK
Acenaphthene	3200	ug/kg	240					
2-Chloronaphthalene	ND	ug/kg	240					
Fluoranthene	20000	ug/kg	240					
Naphthalene	710	ug/kg	240					
Benzo(a)anthracene	9600	ug/kg	240					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-18
T-2-7 (12-18")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
PAH by GC/MS SIM 8270M continued				1	8270C-M	08-Oct 15-Oct
Benzo (a, e) pyrene	8600	ug/kg	240			
Benzo (b) fluoranthene	7400	ug/kg	240			
Benzo (k) fluoranthene	7600	ug/kg	240			
Chrysene	9900	ug/kg	240			
Acenaphthylene	ND	ug/kg	240			
Anthracene	5900	ug/kg	240			
Benzo (ghi) perylene	5200	ug/kg	240			
Fluorene	2800	ug/kg	240			
Phenanthrene	18000	ug/kg	240			
Dibenzo (a, h) anthracene	1400	ug/kg	240			
Indeno (1, 2, 3-cd) Pyrene	5500	ug/kg	240			
Pyrene	16000	ug/kg	240			
1-Methylnaphthalene	460	ug/kg	240			
2-Methylnaphthalene	550	ug/kg	240			
Perylene	1700	ug/kg	240			
Biphenyl	ND	ug/kg	240			
Surrogate Recovery						
Nitrobenzene-d5	28.0	%				
2-Fluorobiphenyl	33.0	%				
4-Terphenyl-d14	40.0	%				
Polychlorinated Biphenyls				1	8082	08-Oct 14-Oct
Aroclor 1221	ND	ug/kg	9080			
Aroclor 1232	ND	ug/kg	9080			
Aroclor 1242/1016	ND	ug/kg	9080			
Aroclor 1248	ND	ug/kg	9080			
Aroclor 1254	ND	ug/kg	9080			
Aroclor 1260	129000	ug/kg	9080			
Surrogate Recovery						
2, 4, 5, 6-Tetrachloro-m-xylene	629.	%				
Decachlorobiphenyl	294.	%				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-18
T-2-7 (12-18")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Extractable Petroleum Hydrocarbons				46	98-1	09-Oct 15-Oct	JA

Quality Control Information

Condition of sample received: Satisfactory
 Sample temperature upon receipt: Received on Ice
 Sample extraction method: Extracted Per the Method
 Were all QA/QC procedures REQUIRED by the method followed? YES
 Were all performance/acceptance standards for the required procedures achieved? NO
 1. One or more of the extraction surrogate recoveries were greater than 140%.
 Were significant modifications made to the method as specified in Sect 11.3? NO
 Please note to subtract the method blank from the stated result.
 The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.
 The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.

C9-C18 Aliphatics	630.	mg/kg	30.3
C19-C36 Aliphatics	3820	mg/kg	30.3
C11-C22 Aromatics	1420	mg/kg	30.3

Surrogate Recovery

Chloro-Octadecane	114.	%
o-Terphenyl	223.	%
2-Fluorobiphenyl	93.0	%
2-Bromonaphthalene	76.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908139-19
T-2-7 (18+)"
Sample Matrix: SOIL

Date Collected: 06-OCT-1999
Date Received : 07-OCT-1999
Date Reported : 15-OCT-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 3-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		INITIALS
						PREP	ANALYSIS	
Solids, Total	30.	%	0.10	30	2540G		12-Oct	J K
Chromium, Hexavalent	67.	mg/kg	4.2	1	7196A		14-Oct	J T
Total Metals				1	3051			
Aluminum, Total	3200	mg/kg	13.	1	6010B	12-Oct	14-Oct	J P
Antimony, Total	14.	mg/kg	6.6	1	6010B	12-Oct	13-Oct	J MG
Arsenic, Total	11.	mg/kg	1.3	1	6010B	12-Oct	13-Oct	J MG
Barium, Total	96.	mg/kg	1.3	1	6010B	12-Oct	13-Oct	J G
Beryllium, Total	ND	mg/kg	0.66	1	6010B	12-Oct	13-Oct	J G
Cadmium, Total	5.2	mg/kg	1.3	1	6010B	12-Oct	13-Oct	J MG
Calcium, Total	1500	mg/kg	66.	1	6010B	12-Oct	14-Oct	J LP
Chromium, Total	4100	mg/kg	1.3	1	6010B	12-Oct	13-Oct	J G
Cobalt, Total	ND	mg/kg	2.6	1	6010B	12-Oct	13-Oct	J G
Copper, Total	3000	mg/kg	1.3	1	6010B	12-Oct	13-Oct	J MG
Iron, Total	8600	mg/kg	6.6	1	6010B	12-Oct	14-Oct	J P
Lead, Total	550	mg/kg	6.6	1	6010B	12-Oct	13-Oct	J G
Magnesium, Total	760	mg/kg	13.	1	6010B	12-Oct	14-Oct	J P
Manganese, Total	76.	mg/kg	1.3	1	6010B	12-Oct	14-Oct	J LP
Mercury, Total	4.9	mg/kg	0.83	1	7471A	13-Oct	14-Oct	J T
Nickel, Total	9.9	mg/kg	3.3	1	6010B	12-Oct	13-Oct	J G
Potassium, Total	ND	mg/kg	330	1	6010B	12-Oct	14-Oct	J LP
Selenium, Total	ND	mg/kg	2.6	1	6010B	12-Oct	13-Oct	J MG
Silver, Total	190	mg/kg	1.3	1	6010B	15-Oct	15-Oct	J P
Sodium, Total	120	mg/kg	66.	1	6010B	12-Oct	14-Oct	J P
Thallium, Total	ND	mg/kg	2.6	1	6010B	12-Oct	13-Oct	J MG
Tin, Total	210	mg/kg	6.6	1	6010B	12-Oct	14-Oct	J P
Vanadium, Total	110	mg/kg	1.3	1	6010B	12-Oct	13-Oct	J G
Zinc, Total	120	mg/kg	6.6	1	6010B	12-Oct	13-Oct	J G
PAH by GC/MS SIM 8270M				1	8270C-M	08-Oct	15-Oct	J K
Acenaphthene	ND	ug/kg	130					
2-Chloronaphthalene	ND	ug/kg	130					
Fluoranthene	3400	ug/kg	130					
Naphthalene	ND	ug/kg	130					
Benzo(a)anthracene	1700	ug/kg	130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908139-19
T-2-7 (18+)

PARAMETER	RESULT	UNITS	RD L	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	08-Oct 15-Oct	MK
Benzo (a, e) pyrene	2100	ug/kg	130				
Benzo (b) fluoranthene	2500	ug/kg	130				
Benzo (k) fluoranthene	2100	ug/kg	130				
Chrysene	2600	ug/kg	130				
Acenaphthylene	ND	ug/kg	130				
Anthracene	360	ug/kg	130				
Benzo (ghi) perylene	1800	ug/kg	130				
Fluorene	ND	ug/kg	130				
Phenanthrene	1400	ug/kg	130				
Dibenzo (a, h) anthracene	560	ug/kg	130				
Indeno (1, 2, 3-cd) Pyrene	1800	ug/kg	130				
Pyrene	2800	ug/kg	130				
1-Methylnaphthalene	ND	ug/kg	130				
2-Methylnaphthalene	ND	ug/kg	130				
Perylene	410	ug/kg	130				
Biphenyl	ND	ug/kg	130				
Surrogate Recovery							
Nitrobenzene-d5	36.0	%					
2-Fluorobiphenyl	40.0	%					
4-Terphenyl-d14	45.0	%					
Polychlorinated Biphenyls				1	8082	08-Oct 14-Oct	P
Aroclor 1221	ND	ug/kg	834.				
Aroclor 1232	ND	ug/kg	834.				
Aroclor 1242/1016	ND	ug/kg	834.				
Aroclor 1248	ND	ug/kg	834.				
Aroclor 1254	ND	ug/kg	834.				
Aroclor 1260	13600	ug/kg	834.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	84.0	%					
Decachlorobiphenyl	36.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L9908139

Parameter	Value 1	Value 2	RPD	Units
Solids, Total for sample(s) 01,03,05,07-19				
Solids, Total	62.	60.	3	%
Solids, Total for sample(s) 02,04,06				
Solids, Total	80.	78.	3	%
Chromium, Hexavalent for sample(s) 01,03,05,07-19				
Chromium, Hexavalent	67.	71.	6	mg/kg
Total Metals for sample(s) 01,03,05,07-09				
Arsenic, Total	1.6	1.9	17	mg/kg
Barium, Total	6.7	7.7	14	mg/kg
Cadmium, Total	ND	ND	NC	mg/kg
Chromium, Total	7.3	8.4	14	mg/kg
Copper, Total	1200	1200	0	mg/kg
Lead, Total	4.9	8.6	55	mg/kg
Nickel, Total	5.8	6.8	16	mg/kg
Selenium, Total	ND	ND	NC	mg/kg
Silver, Total	ND	ND	NC	mg/kg
Tin, Total	ND	ND	NC	mg/kg
Zinc, Total	18.	20.	11	mg/kg
Total Metals for sample(s) 10-19				
Aluminum, Total	5800	3900	39	mg/kg
Antimony, Total	ND	ND	NC	mg/kg
Arsenic, Total	7.8	6.9	12	mg/kg
Barium, Total	53.	50.	6	mg/kg
Beryllium, Total	0.34	0.33	3	mg/kg
Cadmium, Total	1.5	1.5	0	mg/kg
Calcium, Total	1600	1500	6	mg/kg
Chromium, Total	120	110	9	mg/kg
Cobalt, Total	5.2	4.9	6	mg/kg
Copper, Total	540	510	6	mg/kg
Iron, Total	13000	9500	31	mg/kg
Lead, Total	290	260	11	mg/kg
Magnesium, Total	2500	1400	56	mg/kg
Manganese, Total	170	130	27	mg/kg
Nickel, Total	17.	15.	13	mg/kg
Potassium, Total	720	380	62	mg/kg
Selenium, Total	ND	ND	NC	mg/kg
Sodium, Total	180	140	25	mg/kg
Thallium, Total	ND	ND	NC	mg/kg
Tin, Total	ND	ND	NC	mg/kg
Vanadium, Total	43.	39.	10	mg/kg
Zinc, Total	260	250	4	mg/kg

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L9908139

Continued

Parameter	Value 1	Value 2	RPD	Units
Total Metals for sample(s) 01,03,05,07-19				
Mercury, Total	ND	ND	NC	mg/kg
Total Metals for sample(s) 10-19				
Silver, Total	9.2	9.0	2	mg/kg
Polychlorinated Biphenyls for sample(s) 08-19				
Aroclor 1221	ND	ND	NC	ug/kg
Aroclor 1232	ND	ND	NC	ug/kg
Aroclor 1242/1016	ND	ND	NC	ug/kg
Aroclor 1248	ND	ND	NC	ug/kg
Aroclor 1254	ND	ND	NC	ug/kg
Aroclor 1260	750.	392.	63	ug/kg
Surrogate Recovery				
2,4,5,6-Tetrachloro-m-xylene	111.	118.	6	%
Decachlorobiphenyl	64.0	64.0	0	%
Polychlorinated Biphenyls for sample(s) 01-07				
Aroclor 1221	ND	ND	NC	ug/kg
Aroclor 1232	ND	ND	NC	ug/kg
Aroclor 1242/1016	ND	ND	NC	ug/kg
Aroclor 1248	ND	ND	NC	ug/kg
Aroclor 1254	ND	ND	NC	ug/kg
Aroclor 1260	ND	ND	NC	ug/kg
Surrogate Recovery				
2,4,5,6-Tetrachloro-m-xylene	131.	140.	7	%
Decachlorobiphenyl	110.	115.	4	%
Volatile Petroleum Hydrocarbons for sample(s) 14				
C5-C8 Aliphatics	ND	ND	NC	mg/kg
C9-C12 Aliphatics	5.16	2.45	71	mg/kg
C9-C10 Aromatics	ND	ND	NC	mg/kg
C5-C8 Aliphatics, Adjusted	ND	ND	NC	mg/kg
C9-C12 Aliphatics, Adjusted	5.16	2.45	71	mg/kg
Benzene	ND	ND	NC	mg/kg
Toluene	ND	ND	NC	mg/kg
Ethylbenzene	ND	ND	NC	mg/kg
p/m-Xylene	ND	ND	NC	mg/kg
o-Xylene	ND	ND	NC	mg/kg
Methyl tert butyl ether	ND	ND	NC	mg/kg
Naphthalene	ND	ND	NC	mg/kg
Surrogate Recovery				
2,5-Dibromotoluene	115.	108.	6	%

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L9908139

Continued

Parameter	Value 1	Value 2	RPD	Units
Volatile Petroleum Hydrocarbons for sample(s) 10-11				
C5-C8 Aliphatics	ND	ND	NC	mg/kg
C9-C12 Aliphatics	ND	ND	NC	mg/kg
C9-C10 Aromatics	ND	ND	NC	mg/kg
C5-C8 Aliphatics, Adjusted	ND	ND	NC	mg/kg
C9-C12 Aliphatics, Adjusted	ND	ND	NC	mg/kg
Benzene	ND	ND	NC	mg/kg
Toluene	ND	ND	NC	mg/kg
Ethylbenzene	ND	ND	NC	mg/kg
p/m-Xylene	ND	ND	NC	mg/kg
o-Xylene	ND	ND	NC	mg/kg
Methyl tert butyl ether	ND	ND	NC	mg/kg
Naphthalene	ND	ND	NC	mg/kg
Surrogate Recovery				
2,5-Dibromotoluene	123.	107.	14	%
Extractable Petroleum Hydrocarbons for sample(s) 01				
C9-C18 Aliphatics	ND	ND	NC	mg/kg
C19-C36 Aliphatics	ND	ND	NC	mg/kg
C11-C22 Aromatics	ND	ND	NC	mg/kg
Surrogate Recovery				
Chloro-Octadecane	88.0	77.0	13	%
o-Terphenyl	90.0	89.0	1	%
2-Fluorobiphenyl	101.	102.	0	%
2-Bromonaphthalene	63.0	74.0	16	%
Extractable Petroleum Hydrocarbons for sample(s) 03,05,07-08,10-11,14-15,17-18				
C9-C18 Aliphatics	264.	713.	92	mg/kg
C19-C36 Aliphatics	2670	3280	21	mg/kg
C11-C22 Aromatics	510.	1110	74	mg/kg
Surrogate Recovery				
Chloro-Octadecane	82.0	113.	32	%
o-Terphenyl	302.	391.	26	%
2-Fluorobiphenyl	93.0	105.	12	%
2-Bromonaphthalene	82.0	101.	21	%

**ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES**

Laboratory Job Number: L9908139

Parameter	% Recovery
Chromium, Hexavalent LCS for sample(s) 01,03,05,07-19	
Chromium, Hexavalent	98
Total Metals LCS for sample(s) 01,03,05,07-09	
Aluminum, Total	99
Antimony, Total	91
Arsenic, Total	84
Barium, Total	98
Beryllium, Total	97
Cadmium, Total	89
Calcium, Total	95
Chromium, Total	93
Cobalt, Total	96
Copper, Total	100
Lead, Total	91
Magnesium, Total	92
Manganese, Total	110
Nickel, Total	92
Potassium, Total	85
Selenium, Total	76
Silver, Total	71
Sodium, Total	95
Thallium, Total	100
Tin, Total	96
Vanadium, Total	96
Zinc, Total	95
Total Metals LCS for sample(s) 10-19	
Aluminum, Total	100
Antimony, Total	91
Arsenic, Total	93
Barium, Total	95
Beryllium, Total	95
Cadmium, Total	91
Calcium, Total	90
Chromium, Total	93
Cobalt, Total	96
Copper, Total	99
Lead, Total	94
Magnesium, Total	91
Manganese, Total	110
Nickel, Total	93
Potassium, Total	90
Selenium, Total	91
Sodium, Total	97
Thallium, Total	100
Tin, Total	89
Vanadium, Total	95
Zinc, Total	98

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L9908139

Continued

Parameter	% Recovery
Total Metals LCS for sample(s) 01,03,05,07-19	
Mercury, Total	98
Total Metals LCS for sample(s) 10-19	
Silver, Total	89
PAH by GC/MS SIM 8270M LCS for sample(s) 01,03,05,07-10,12-19	
Acenaphthene	58
Pyrene	64
Surrogate Recovery	
Nitrobenzene-d5	41
2-Fluorobiphenyl	44
4-Terphenyl-d14	53
PAH by GC/MS SIM 8270M LCS for sample(s) 11	
Acenaphthene	98
Pyrene	95
Surrogate Recovery	
Nitrobenzene-d5	98
2-Fluorobiphenyl	83
4-Terphenyl-d14	86
Polychlorinated Biphenyls LCS for sample(s) 08-19	
Aroclor 1242/1016	98
Aroclor 1260	100
Surrogate Recovery	
2,4,5,6-Tetrachloro-m-xylene	126
Decachlorobiphenyl	67
Polychlorinated Biphenyls LCS for sample(s) 01-07	
Aroclor 1242/1016	102
Aroclor 1260	83
Surrogate Recovery	
2,4,5,6-Tetrachloro-m-xylene	131
Decachlorobiphenyl	77
Volatile Petroleum Hydrocarbons LCS for sample(s) 14	
Benzene	114
Toluene	102
Ethylbenzene	117
p/m-Xylene	108
o-Xylene	107
Naphthalene	104

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L9908139

Continued

Parameter	% Recovery
Volatile Petroleum Hydrocarbons LCS for sample(s) 14	
Surrogate Recovery	
2,5-Dibromotoluene	111
Volatile Petroleum Hydrocarbons LCS for sample(s) 10-11	
Benzene	96
Toluene	107
Ethylbenzene	99
p/m-Xylene	104
o-Xylene	103
Naphthalene	108
Surrogate Recovery	
2,5-Dibromotoluene	122
Extractable Petroleum Hydrocarbons LCS for sample(s) 01	
Naphthalene	83
Acenaphthene	91
Anthracene	88
Pyrene	76
Chrysene	78
Nonane (C9)	61
Tetradecane (C14)	104
Nonadecane (C19)	88
Eicosane (C20)	113
Octacosane (C28)	314
Surrogate Recovery	
Chloro-Octadecane	79
o-Terphenyl	87
2-Fluorobiphenyl	103
2-Bromonaphthalene	85
Extractable Petroleum Hydrocarbons LCS for sample(s) 03,05,07-08,10-11,14-15,17-18	
Naphthalene	84
Acenaphthene	88
Anthracene	87
Pyrene	80
Chrysene	82
Nonane (C9)	70
Tetradecane (C14)	124
Nonadecane (C19)	110
Eicosane (C20)	136
Octacosane (C28)	105
Surrogate Recovery	
Chloro-Octadecane	96
o-Terphenyl	90

**ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES**

Laboratory Job Number: L9908139

Continued

Parameter	% Recovery
Extractable Petroleum Hydrocarbons LCS for sample(s) 03,05,07-08,10-11,14-15,17-18	
2-Fluorobiphenyl	94
2-Bromonaphthalene	84
Chromium, Hexavalent SPIKE for sample(s) 01,03,05,07-19	
Chromium, Hexavalent	98
Total Metals SPIKE for sample(s) 01,03,05,07-09	
Arsenic, Total	72
Barium, Total	97
Beryllium, Total	94
Cadmium, Total	89
Chromium, Total	80
Cobalt, Total	92
Copper, Total	89
Lead, Total	87
Nickel, Total	89
Selenium, Total	78
Silver, Total	71
Thallium, Total	110
Vanadium, Total	89
Total Metals SPIKE for sample(s) 10-19	
Arsenic, Total	100
Barium, Total	88
Beryllium, Total	100
Cadmium, Total	86
Calcium, Total	78
Cobalt, Total	97
Nickel, Total	92
Potassium, Total	75
Selenium, Total	120
Sodium, Total	98
Thallium, Total	120
Tin, Total	98
Vanadium, Total	59
Zinc, Total	98
Total Metals SPIKE for sample(s) 01,03,05,07-19	
Mercury, Total	96

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L9908139

Parameter	MS %	MSD %	RPD
PAH by GC/MS SIM 8270M for sample(s) 01,03,05,07-10,12-19			
Acenaphthene	86	70	21
Pyrene	100	120	18

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L9908139

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		
						PREP	ANALYSIS	
Blank Analysis for sample(s) 01,03,05,07-09								
Total Metals				1	3051			
Aluminum, Total	ND	mg/kg	4.0	1	6010B	12-Oct	14-Oct	J
Antimony, Total	ND	mg/kg	2.0	1	6010B	12-Oct	12-Oct	J
Arsenic, Total	ND	mg/kg	0.40	1	6010B	12-Oct	12-Oct	MC
Barium, Total	ND	mg/kg	0.40	1	6010B	12-Oct	12-Oct	J
Beryllium, Total	ND	mg/kg	0.20	1	6010B	12-Oct	12-Oct	J
Cadmium, Total	ND	mg/kg	0.40	1	6010B	12-Oct	12-Oct	MC
Calcium, Total	ND	mg/kg	20.	1	6010B	12-Oct	14-Oct	LI
Chromium, Total	ND	mg/kg	0.40	1	6010B	12-Oct	12-Oct	J
Cobalt, Total	ND	mg/kg	0.80	1	6010B	12-Oct	12-Oct	J
Copper, Total	ND	mg/kg	2.0	1	6010B	12-Oct	12-Oct	MC
Iron, Total	ND	mg/kg	2.0	1	6010B	12-Oct	14-Oct	LI
Lead, Total	ND	mg/kg	2.0	1	6010B	12-Oct	12-Oct	J
Magnesium, Total	ND	mg/kg	4.0	1	6010B	12-Oct	14-Oct	LI
Manganese, Total	ND	mg/kg	0.40	1	6010B	12-Oct	14-Oct	LI
Nickel, Total	ND	mg/kg	1.0	1	6010B	12-Oct	12-Oct	MC
Potassium, Total	ND	mg/kg	100	1	6010B	12-Oct	14-Oct	E
Selenium, Total	ND	mg/kg	0.80	1	6010B	12-Oct	12-Oct	MC
Silver, Total	ND	mg/kg	0.40	1	6010B	12-Oct	12-Oct	MC
Sodium, Total	ND	mg/kg	20.	1	6010B	12-Oct	14-Oct	E
Thallium, Total	ND	mg/kg	0.80	1	6010B	12-Oct	12-Oct	J
Tin, Total	ND	mg/kg	4.0	1	6010B	12-Oct	13-Oct	LI
Vanadium, Total	ND	mg/kg	0.40	1	6010B	12-Oct	12-Oct	MC
Zinc, Total	ND	mg/kg	2.0	1	6010B	12-Oct	12-Oct	J
Blank Analysis for sample(s) 10-19								
Total Metals				1	3051			
Aluminum, Total	ND	mg/kg	4.0	1	6010B	12-Oct	14-Oct	J
Antimony, Total	ND	mg/kg	2.0	1	6010B	12-Oct	13-Oct	MC
Arsenic, Total	ND	mg/kg	0.40	1	6010B	12-Oct	13-Oct	J
Barium, Total	ND	mg/kg	0.40	1	6010B	12-Oct	13-Oct	J
Beryllium, Total	ND	mg/kg	0.20	1	6010B	12-Oct	13-Oct	MC
Cadmium, Total	ND	mg/kg	0.40	1	6010B	12-Oct	13-Oct	MC
Calcium, Total	ND	mg/kg	20.	1	6010B	12-Oct	14-Oct	J
Chromium, Total	ND	mg/kg	0.40	1	6010B	12-Oct	13-Oct	J
Cobalt, Total	ND	mg/kg	0.80	1	6010B	12-Oct	13-Oct	MC
Copper, Total	ND	mg/kg	0.40	1	6010B	12-Oct	13-Oct	MC
Iron, Total	ND	mg/kg	2.0	1	6010B	12-Oct	14-Oct	J
Lead, Total	ND	mg/kg	2.0	1	6010B	12-Oct	13-Oct	J
Magnesium, Total	ND	mg/kg	4.0	1	6010B	12-Oct	14-Oct	LI
Manganese, Total	ND	mg/kg	0.40	1	6010B	12-Oct	14-Oct	J
Nickel, Total	ND	mg/kg	1.0	1	6010B	12-Oct	13-Oct	J
Potassium, Total	ND	mg/kg	100	1	6010B	12-Oct	14-Oct	LI
Selenium, Total	ND	mg/kg	0.80	1	6010B	12-Oct	13-Oct	MC
Sodium, Total	ND	mg/kg	20.	1	6010B	12-Oct	14-Oct	J
Thallium, Total	ND	mg/kg	0.80	1	6010B	12-Oct	13-Oct	J

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L9908139

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Blank Analysis for sample(s) 10-19							
Total Metals				1	3051		
Tin, Total	ND	mg/kg	2.0	1	6010B	12-Oct 14-Oct	LP
Vanadium, Total	ND	mg/kg	0.40	1	6010B	12-Oct 13-Oct	MG
Zinc, Total	ND	mg/kg	2.0	1	6010B	12-Oct 13-Oct	MG
Blank Analysis for sample(s) 01,03,05,07-19							
Total Metals							
Mercury, Total	ND	mg/kg	0.25	1	7471A	13-Oct 14-Oct	TT
Blank Analysis for sample(s) 10-19							
Total Metals				1	3051		
Silver, Total	ND	mg/kg	0.40	1	6010B	15-Oct 15-Oct	LP
Blank Analysis for sample(s) 01,03,05,07-10,12-19							
PAH by GC/MS SIM 8270M				1	8270C-M	08-Oct 14-Oct	MK
Acenaphthene	ND	ug/kg	20.				
2-Chloronaphthalene	ND	ug/kg	20.				
Fluoranthene	ND	ug/kg	20.				
Naphthalene	ND	ug/kg	20.				
Benzo (a) anthracene	ND	ug/kg	20.				
Benzo (a, e) pyrene	ND	ug/kg	20.				
Benzo (b) fluoranthene	ND	ug/kg	20.				
Benzo (k) fluoranthene	ND	ug/kg	20.				
Chrysene	ND	ug/kg	20.				
Acenaphthylene	ND	ug/kg	20.				
Anthracene	ND	ug/kg	20.				
Benzo (ghi) perylene	ND	ug/kg	20.				
Fluorene	ND	ug/kg	20.				
Phenanthrene	ND	ug/kg	20.				
Dibenzo (a, h) anthracene	ND	ug/kg	20.				
Indeno (1, 2, 3-cd) Pyrene	ND	ug/kg	20.				
Pyrene	ND	ug/kg	20.				
1-Methylnaphthalene	ND	ug/kg	20.				
2-Methylnaphthalene	ND	ug/kg	20.				
Perylene	ND	ug/kg	20.				
Biphenyl	ND	ug/kg	20.				
Surrogate Recovery							
Nitrobenzene-d5	48.0	%					
2-Fluorobiphenyl	50.0	%					
4-Terphenyl-d14	59.0	%					
Blank Analysis for sample(s) 11							
PAH by GC/MS SIM 8270M				1	8270C-M	12-Oct 15-Oct	MK

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L9908139

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Blank Analysis for sample(s) 11						
PAH by GC/MS SIM 8270M continued				1	8270C-M	12-Oct 15-Oct
Acenaphthene	ND	ug/kg	20.			
2-Chloronaphthalene	ND	ug/kg	20.			
Fluoranthene	ND	ug/kg	20.			
Naphthalene	ND	ug/kg	20.			
Benzo (a) anthracene	ND	ug/kg	20.			
Benzo (a, e) pyrene	ND	ug/kg	20.			
Benzo (b) fluoranthene	ND	ug/kg	20.			
Benzo (k) fluoranthene	ND	ug/kg	20.			
Chrysene	ND	ug/kg	20.			
Acenaphthylene	ND	ug/kg	20.			
Anthracene	ND	ug/kg	20.			
Benzo (ghi) perylene	ND	ug/kg	20.			
Fluorene	ND	ug/kg	20.			
Phenanthrene	ND	ug/kg	20.			
Dibenzo (a, h) anthracene	ND	ug/kg	20.			
Indeno (1, 2, 3-cd) Pyrene	ND	ug/kg	20.			
Pyrene	ND	ug/kg	20.			
1-Methylnaphthalene	ND	ug/kg	20.			
2-Methylnaphthalene	ND	ug/kg	20.			
Perylene	ND	ug/kg	20.			
Biphenyl	ND	ug/kg	20.			
Surrogate Recovery						
Nitrobenzene-d5	62.0	%				
2-Fluorobiphenyl	69.0	%				
4-Terphenyl-d14	61.0	%				
Blank Analysis for sample(s) 08-19						
Polychlorinated Biphenyls				1	8082	08-Oct 13-Oct
Aroclor 1221	ND	ug/kg	250.			
Aroclor 1232	ND	ug/kg	250.			
Aroclor 1242/1016	ND	ug/kg	250.			
Aroclor 1248	ND	ug/kg	250.			
Aroclor 1254	ND	ug/kg	250.			
Aroclor 1260	ND	ug/kg	250.			
Surrogate Recovery						
2,4,5,6-Tetrachloro-m-xylene	123.	%				
Decachlorobiphenyl	60.0	%				
Blank Analysis for sample(s) 01-07						
Polychlorinated Biphenyls				1	8082	09-Oct 13-Oct
Aroclor 1221	ND	ug/kg	250.			
Aroclor 1232	ND	ug/kg	250.			
Aroclor 1242/1016	ND	ug/kg	250.			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L9908139

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Blank Analysis for sample(s) 01-07							
Polychlorinated Biphenyls continued							
				1	8082	09-Oct 13-Oct	PB
Aroclor 1248	ND	ug/kg	250.				
Aroclor 1254	ND	ug/kg	250.				
Aroclor 1260	ND	ug/kg	250.				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	138.	%					
Decachlorobiphenyl	117.	%					
Blank Analysis for sample(s) 14							
Volatile Petroleum Hydrocarbons							
				47	98-1	15-Oct	JC
C5-C8 Aliphatics	ND	mg/kg	1.00				
C9-C12 Aliphatics	ND	mg/kg	1.00				
C9-C10 Aromatics	ND	mg/kg	1.00				
C5-C8 Aliphatics, Adjusted	ND	mg/kg	1.00				
C9-C12 Aliphatics, Adjusted	ND	mg/kg	1.00				
Benzene	ND	mg/kg	0.100				
Toluene	ND	mg/kg	0.100				
Ethylbenzene	ND	mg/kg	0.100				
p/m-Xylene	ND	mg/kg	0.100				
o-Xylene	ND	mg/kg	0.100				
Methyl tert butyl ether	ND	mg/kg	1.00				
Naphthalene	ND	mg/kg	1.00				
Surrogate Recovery							
2,5-Dibromotoluene	78.0	%					
Blank Analysis for sample(s) 10-11							
Volatile Petroleum Hydrocarbons							
				47	98-1	13-Oct	JC
C5-C8 Aliphatics	ND	mg/kg	1.00				
C9-C12 Aliphatics	ND	mg/kg	1.00				
C9-C10 Aromatics	ND	mg/kg	1.00				
C5-C8 Aliphatics, Adjusted	ND	mg/kg	1.00				
C9-C12 Aliphatics, Adjusted	ND	mg/kg	1.00				
Benzene	ND	mg/kg	0.100				
Toluene	ND	mg/kg	0.100				
Ethylbenzene	ND	mg/kg	0.100				
p/m-Xylene	ND	mg/kg	0.100				
o-Xylene	ND	mg/kg	0.100				
Methyl tert butyl ether	ND	mg/kg	1.00				
Naphthalene	ND	mg/kg	1.00				
Surrogate Recovery							
2,5-Dibromotoluene	79.0	%					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L9908139

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Blank Analysis for sample(s) 01						
Extractable Petroleum Hydrocarbons				46	98-1	08-Oct 12-Oct
C9-C18 Aliphatics	ND	mg/kg	10.0			
C19-C36 Aliphatics	ND	mg/kg	10.0			
C11-C22 Aromatics	ND	mg/kg	10.0			
Surrogate Recovery						
Chloro-Octadecane	88.0	%				
o-Terphenyl	90.0	%				
2-Fluorobiphenyl	98.0	%				
2-Bromonaphthalene	50.0	%				
Blank Analysis for sample(s) 03,05,07-08,10-11,14-15,17-18						
Extractable Petroleum Hydrocarbons				46	98-1	09-Oct 14-Oct
C9-C18 Aliphatics	ND	mg/kg	10.0			
C19-C36 Aliphatics	ND	mg/kg	10.0			
C11-C22 Aromatics	ND	mg/kg	10.0			
C11-C22 Aromatics, Adjusted	ND	mg/kg	10.0			
Naphthalene	ND	mg/kg	0.500			
2-Methylnaphthalene	ND	mg/kg	0.500			
Acenaphthalene	ND	mg/kg	0.500			
Acenaphthene	ND	mg/kg	0.500			
Fluorene	ND	mg/kg	0.500			
Phenanthrene	ND	mg/kg	0.500			
Anthracene	ND	mg/kg	0.500			
Fluoranthene	ND	mg/kg	0.500			
Pyrene	ND	mg/kg	0.500			
Benzo(a)anthracene	ND	mg/kg	0.500			
Chrysene	ND	mg/kg	0.500			
Benzo(b)fluoranthene	ND	mg/kg	0.500			
Benzo(k)fluoranthene	ND	mg/kg	0.500			
Benzo(a)pyrene	ND	mg/kg	0.500			
Indeno(1,2,3-cd)Pyrene	ND	mg/kg	0.500			
Dibenzo(a,h)anthracene	ND	mg/kg	0.500			
Benzo(ghi)perylene	ND	mg/kg	0.500			
Surrogate Recovery						
Chloro-Octadecane	105.	%				
o-Terphenyl	93.0	%				
2-Fluorobiphenyl	103.	%				
2-Bromonaphthalene	80.0	%				

**ALPHA ANALYTICAL LABORATORIES
ADDENDUM I**

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.
30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
46. Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), Massachusetts Department of Environmental Protection, (MADEP-EPH-98-1), January 1998.
47. Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), Massachusetts Department of Environmental Protection, (MADEP-VPH-98-1), January 1998.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.

METHOD Method number by which analysis was performed.

ID Initials of the analyst.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

ALPHA Analytical Laboratories, Inc.

Eight Walkup Drive Westborough, MA 01581
 PH: 508.898.9220 FAX: 508.898.9193 www.alphalab.com

CHAIN OF CUSTODY

No 001527

Sheet 1 of 1

Date Rec'd in Lab: 10/7

Client Name: ERM
 Client Address: 399 Boylston St., 6th Fl.
Boston, MA 02116
 Phone #: (617) 267-6377 FAX #: (617) 267-6447

Project Name: Raytheon -
 Project Location: Weyland
 Project #: 143.48
 Project Manager: John McTigue

Report To: John McTigue
 Bill To: ERM
 PO#: 143.48

- Standard TAT
 - RUSH TAT
 - FAX Results
 - State Forms
 - Smart Report
- (* DAYS)

Comments (Please note specific method, detection limit or reporting requirements.)

Refer to Alpha BID - Raised
 see Ellen or Scott
 or call John McTigue

ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	PCBs 8000	PAMS 8270	EPH Standard	ICP Metals List	TOC	AUS/SEM	VPM
T-1-B (0-6")	SEDIMENT	10/7/99	11:15	RDC	N	✓	✓	✓	✓	✓		
T-1-B (12-18")			11:19			✓	✓	✓	✓			
T-1-1 (0-6")			11:20			✓	✓	✓	✓			
T-1-1 (12-18")			11:20			✓	✓	✓	✓			
T-1-4 (0-6")			11:05			✓	✓	✓	✓			
T-1-4 (12-18")			11:05			✓	✓	✓	✓			
T-1-6 (0-6")			11:00			✓	✓	✓	✓			
T-2-D (0-6")			7:50			✓	✓	✓	✓			
T-2-D (12-18")			7:52			✓	✓	✓	✓			
T-2-G (0-6")	9:15	✓	✓	✓	✓							

split w/ 8140, 8141

All samples submitted are subject to Alpha's standard Terms and Conditions.

* See Reverse side for Matrix, Container and Preservative Codes.

of Containers:

Container Type: *

Preservative:

Transfers Accepted By:	Date	Time
<i>[Signature]</i>	10/7/99	3:15
<i>[Signature]</i>	10/7/99	10:15
<i>[Signature]</i>	10/7/99	10:20

Users Relinquished By:

[Signature]
[Signature]

ALPHA Analytical Laboratories, Inc.

Eight Walkup Drive Westborough, MA 01581
 PH: 508.898.9220 FAX: 508.898.9193 www.alphalab.com

CHAIN OF CUSTODY

No 001528

Sheet 2 of

Date Rec'd in Lab: 10/7

Client Name: ERM
 Client Address: 399 Boylston St., 6th Floor
Boston, MA 02116
 Phone #: (617) 267-8377 FAX #: 267-6447

Project Name: Raytheon -
 Project Location: Wayland
 Project #: 143.48
 Project Manager: John McTigue

Report To: John McTigue
 Bill To: ERM
 PO#: 143.48

- Standard TAT
- RUSH TAT (* DAYS)
- FAX Results
- State Forms
- Smart Report

Comments (Please note specific method, detection limit or reporting requirements.)

ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	PCBs 8082	PAMS 8270	OPM Deluxe	TUC	ANUS AUS/SEM	VFM	ICP Metals
T-2-A (0-6")			8:10	↑		✓	✓	✓	✓	✓	✓	
T-2-A (12-18")			8:15	↑		✓	✓	✓	✓	✓	✓	
T-2-A (18+")			8:17	↑		✓	✓	✓	✓	✓	✓	
T-2-8 (0-6")			8:30	↑		✓	✓	✓	✓	✓	✓	
T-2-8 (12-18")			8:30	↑		✓	✓	✓	✓	✓	✓	
T-2-8 (18+")			8:35	↑		✓	✓	✓	✓	✓	✓	
T-2-7 (0-6")			8:55	↑		✓	✓	✓	✓	✓	✓	
T-2-7 (12-18")			8:57	↑		✓	✓	✓	✓	✓	✓	
T-2-7 (18+")			9:00	↑		✓	✓	✓	✓	✓	✓	

Transfers Relinquished By:	Date	Time
<u>John McTigue</u>	<u>10/6/99</u>	<u>10:00</u>
<u>John McTigue</u>	<u>10/7/99</u>	<u>10:20</u>

All samples submitted are subject to Alpha's standard Terms and Conditions.

* See Reverse side for Matrix, Container, and Preservative Codes.

Form No.: 01-01

# of Containers:	
Container Type: *	<u>A</u>
Preservative: *	<u>A</u>