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ALPHA ANALYTICAL LABORATORIES

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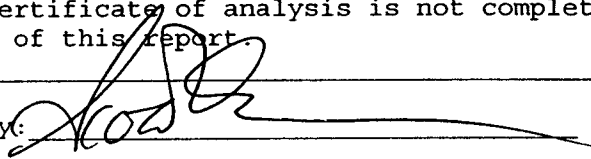
MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

CERTIFICATE OF ANALYSIS

Client: ERM-New England Laboratory Job Number: L9908021
Address: 399 Boylston Street Invoice Number: 30522
6th Floor Date Received: 05-OCT-99
Boston, MA 02116 Date Reported: 13-OCT-99
Attn: John McTigue Delivery Method: Alpha
Project Number: 143.48
Site: RAYTHEON

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9908021-01	T-8-C	WAYLAND
L9908021-02	T-8-A	WAYLAND
L9908021-03	T-8-6	WAYLAND
L9908021-04	T-8-9	WAYLAND
L9908021-05	T-8-11	WAYLAND
L9908021-06	T-8-13	WAYLAND
L9908021-07	T-8-14	WAYLAND
L9908021-08	T-8-7	WAYLAND
L9908021-09	T-7-9	WAYLAND
L9908021-10	T-7-11	WAYLAND
L9908021-11	T-7-14	WAYLAND
L9908021-12	T-7-C	WAYLAND
L9908021-13	T-7-9 0-6"	WAYLAND
L9908021-14	T-7-9 12-18"	WAYLAND
L9908021-15	T-7-14 0-6"	WAYLAND
L9908021-16	T-7-14 12-18"	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
CERTIFICATE OF ANALYSIS**

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

Laboratory Sample Number: L9908021-01

Date Collected: 05-OCT-1999

T-8-C

Date Received : 05-OCT-1999

Sample Matrix: SOIL

Date Reported : 13-OCT-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		II	
						PREP	ANALYSIS		
Solids, Total	18.	%	0.10	30	2540G		07-Oct	II	
Chromium, Hexavalent	ND	mg/kg	14.	1	7196A		08-Oct	II	
Total Metals					1	3051			
Aluminum, Total	7400	mg/kg	22.	1	6010B	06-Oct	07-Oct	LF	
Antimony, Total	ND	mg/kg	11.	1	6010B	06-Oct	07-Oct	MG	
Arsenic, Total	7.6	mg/kg	2.2	1	6010B	06-Oct	07-Oct	MG	
Barium, Total	110	mg/kg	2.2	1	6010B	06-Oct	07-Oct	MG	
Beryllium, Total	ND	mg/kg	1.1	1	6010B	06-Oct	07-Oct	LF	
Cadmium, Total	5.2	mg/kg	2.2	1	6010B	06-Oct	07-Oct	MG	
Calcium, Total	4500	mg/kg	110	1	6010B	06-Oct	07-Oct	LP	
Chromium, Total	320	mg/kg	2.2	1	6010B	06-Oct	07-Oct	MG	
Cobalt, Total	5.1	mg/kg	4.4	1	6010B	06-Oct	07-Oct	MG	
Copper, Total	640	mg/kg	2.2	1	6010B	06-Oct	07-Oct	MG	
Iron, Total	6200	mg/kg	11.	1	6010B	06-Oct	07-Oct	LP	
Lead, Total	250	mg/kg	11.	1	6010B	06-Oct	07-Oct	MG	
Magnesium, Total	1400	mg/kg	22.	1	6010B	06-Oct	07-Oct	LP	
Manganese, Total	300	mg/kg	2.2	1	6010B	06-Oct	07-Oct	LP	
Mercury, Total	2.2	mg/kg	1.4	1	7471A	06-Oct	07-Oct	TT	
Nickel, Total	20.	mg/kg	5.5	1	6010B	06-Oct	07-Oct	MG	
Potassium, Total	ND	mg/kg	550	1	6010B	06-Oct	07-Oct	LP	
Selenium, Total	ND	mg/kg	4.4	1	6010B	06-Oct	07-Oct	MG	
Silver, Total	24.	mg/kg	2.2	1	6010B	06-Oct	07-Oct	MG	
Sodium, Total	540	mg/kg	110	1	6010B	06-Oct	07-Oct	LP	
Thallium, Total	ND	mg/kg	4.4	1	6010B	06-Oct	07-Oct	MG	
Tin, Total	ND	mg/kg	11.	1	6010B	06-Oct	07-Oct	LP	
Vanadium, Total	35.	mg/kg	2.2	1	6010B	06-Oct	07-Oct	MG	
Zinc, Total	170	mg/kg	11.	1	6010B	06-Oct	07-Oct	MG	
Polychlorinated Biphenyls					1	8082	06-Oct	07-Oct	PB
Aroclor 1221	ND	ug/kg	1390						
Aroclor 1232	ND	ug/kg	1390						
Aroclor 1242/1016	ND	ug/kg	1390						
Aroclor 1248	ND	ug/kg	1390						
Aroclor 1254	ND	ug/kg	1390						

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908021-01
 T-8-C

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	06-Oct 07-Oct	PB
Aroclor 1260	4190	ug/kg	1390				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	126.	%					
Decachlorobiphenyl	69.0	%					

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: L9908021-02 Date Collected: 05-OCT-1999
T-8-A Date Received : 05-OCT-1999
Sample Matrix: SOIL Date Reported : 13-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	19.	%	0.10	30	2540G		06-Oct	K
Chromium, Hexavalent	ND	mg/kg	13.	1	7196A		07-Oct	T
Total Metals				1	3051			
Aluminum, Total	8500	mg/kg	21.	1	6010B	06-Oct	07-Oct	P
Antimony, Total	ND	mg/kg	10.	1	6010B	06-Oct	07-Oct	G
Arsenic, Total	11.	mg/kg	2.1	1	6010B	06-Oct	07-Oct	MG
Barium, Total	110	mg/kg	2.1	1	6010B	06-Oct	07-Oct	MG
Beryllium, Total	ND	mg/kg	1.0	1	6010B	06-Oct	07-Oct	P
Cadmium, Total	7.7	mg/kg	2.1	1	6010B	06-Oct	07-Oct	G
Calcium, Total	4200	mg/kg	100	1	6010B	06-Oct	07-Oct	LP
Chromium, Total	890	mg/kg	2.1	1	6010B	06-Oct	07-Oct	G
Cobalt, Total	5.0	mg/kg	4.2	1	6010B	06-Oct	07-Oct	G
Copper, Total	1100	mg/kg	2.1	1	6010B	06-Oct	07-Oct	MG
Iron, Total	7800	mg/kg	10.	1	6010B	06-Oct	07-Oct	LP
Lead, Total	370	mg/kg	10.	1	6010B	06-Oct	07-Oct	G
Magnesium, Total	1400	mg/kg	21.	1	6010B	06-Oct	07-Oct	P
Manganese, Total	220	mg/kg	2.1	1	6010B	06-Oct	07-Oct	LP
Mercury, Total	3.4	mg/kg	1.3	1	7471A	06-Oct	07-Oct	TT
Nickel, Total	24.	mg/kg	5.2	1	6010B	06-Oct	07-Oct	G
Potassium, Total	ND	mg/kg	520	1	6010B	06-Oct	07-Oct	P
Selenium, Total	ND	mg/kg	4.2	1	6010B	06-Oct	07-Oct	MG
Silver, Total	54.	mg/kg	2.1	1	6010B	06-Oct	07-Oct	G
Sodium, Total	350	mg/kg	100	1	6010B	06-Oct	07-Oct	P
Thallium, Total	ND	mg/kg	4.2	1	6010B	06-Oct	07-Oct	MG
Tin, Total	11.	mg/kg	10.	1	6010B	06-Oct	07-Oct	LP
Vanadium, Total	63.	mg/kg	2.1	1	6010B	06-Oct	07-Oct	G
Zinc, Total	200	mg/kg	10.	1	6010B	06-Oct	07-Oct	G
PAH by GC/MS SIM 8270M				1	8270C-M	06-Oct	13-Oct	MK
Acenaphthene	ND	ug/kg	420					
2-Chloronaphthalene	ND	ug/kg	420					
Fluoranthene	2000	ug/kg	420					
Naphthalene	ND	ug/kg	420					
Benzo(a)anthracene	740	ug/kg	420					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908021-02
T-8-A

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	06-Oct 13-Oct	MK
Benzo (a, e) pyrene	1100	ug/kg	420				
Benzo (b) fluoranthene	1700	ug/kg	420				
Benzo (k) fluoranthene	1500	ug/kg	420				
Chrysene	1700	ug/kg	420				
Acenaphthylene	ND	ug/kg	420				
Anthracene	ND	ug/kg	420				
Benzo (ghi) perylene	1100	ug/kg	420				
Fluorene	ND	ug/kg	420				
Phenanthrene	790	ug/kg	420				
Dibenzo (a, h) anthracene	ND	ug/kg	420				
Indeno (1, 2, 3-cd) Pyrene	1100	ug/kg	420				
Pyrene	1700	ug/kg	420				
1-Methylnaphthalene	ND	ug/kg	420				
2-Methylnaphthalene	ND	ug/kg	420				
Perylene	ND	ug/kg	420				
Biphenyl	ND	ug/kg	420				
Surrogate Recovery							
Nitrobenzene-d5	56.0	%					
2-Fluorobiphenyl	61.0	%					
4-Terphenyl-d14	79.0	%					
Polychlorinated Biphenyls				1	8082	06-Oct 07-Oct	PB
Aroclor 1221	ND	ug/kg	1320				
Aroclor 1232	ND	ug/kg	1320				
Aroclor 1242/1016	ND	ug/kg	1320				
Aroclor 1248	ND	ug/kg	1320				
Aroclor 1254	3720	ug/kg	1320				
Aroclor 1260	ND	ug/kg	1320				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	121.	%					
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: L9908021-02
T-8-A

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Extractable Petroleum Hydrocarbons				46	98-1	06-Oct 12-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	52.6
C19-C36 Aliphatics	495.	mg/kg	52.6
C11-C22 Aromatics	244.	mg/kg	52.6

Surrogate Recovery

Chloro-Octadecane	111.	%
o-Terphenyl	85.0	%
2-Fluorobiphenyl	87.0	%
2-Bromonaphthalene	62.0	%

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908021-03
T-8-6

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	06-Oct 13-Oct	TK
Benzo (a, e) pyrene	320	ug/kg	130				
Benzo (b) fluoranthene	490	ug/kg	130				
Benzo (k) fluoranthene	460	ug/kg	130				
Chrysene	500	ug/kg	130				
Acenaphthylene	ND	ug/kg	130				
Anthracene	ND	ug/kg	130				
Benzo (ghi) perylene	320	ug/kg	130				
Fluorene	ND	ug/kg	130				
Phenanthrene	280	ug/kg	130				
Dibenzo (a, h) anthracene	ND	ug/kg	130				
Indeno (1, 2, 3-cd) Pyrene	320	ug/kg	130				
Pyrene	520	ug/kg	130				
1-Methylnaphthalene	ND	ug/kg	130				
2-Methylnaphthalene	ND	ug/kg	130				
Perylene	ND	ug/kg	130				
Biphenyl	ND	ug/kg	130				
Surrogate Recovery							
Nitrobenzene-d5	64.0	%					
2-Fluorobiphenyl	56.0	%					
4-Terphenyl-d14	53.0	%					
Polychlorinated Biphenyls				1	8082	06-Oct 07-Oct	TB
Aroclor 1221	ND	ug/kg	1670				
Aroclor 1232	ND	ug/kg	1670				
Aroclor 1242/1016	ND	ug/kg	1670				
Aroclor 1248	ND	ug/kg	1670				
Aroclor 1254	4000	ug/kg	1670				
Aroclor 1260	ND	ug/kg	1670				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	152.	%					
Decachlorobiphenyl	71.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908021-03
T-8-6

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
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Extractable Petroleum Hydrocarbons				46	98-1	06-Oct 10-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	66.7
C19-C36 Aliphatics	ND	mg/kg	66.7
C11-C22 Aromatics	97.1	mg/kg	66.7

Surrogate Recovery

Chloro-Octadecane	82.0	%	
o-Terphenyl	87.0	%	
2-Fluorobiphenyl	88.0	%	
2-Bromonaphthalene	77.0	%	

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: L9908021-04
T-8-9
Sample Matrix: SOIL

Date Collected: 05-OCT-1999
Date Received : 05-OCT-1999
Date Reported : 13-OCT-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Solids, Total	14.	%	0.10	30	2540G		06-Oct	K
Chromium, Hexavalent	ND	mg/kg	18.	1	7196A		08-Oct	T
Total Metals				1	3051			
Aluminum, Total	9400	mg/kg	28.	1	6010B	06-Oct	07-Oct	P
Antimony, Total	ND	mg/kg	14.	1	6010B	06-Oct	07-Oct	G
Arsenic, Total	24.	mg/kg	2.8	1	6010B	06-Oct	07-Oct	MG
Barium, Total	110	mg/kg	2.8	1	6010B	06-Oct	07-Oct	MG
Beryllium, Total	ND	mg/kg	1.4	1	6010B	06-Oct	07-Oct	P
Cadmium, Total	5.4	mg/kg	2.8	1	6010B	06-Oct	07-Oct	G
Calcium, Total	4400	mg/kg	140	1	6010B	06-Oct	07-Oct	LP
Chromium, Total	6700	mg/kg	2.8	1	6010B	06-Oct	07-Oct	G
Cobalt, Total	ND	mg/kg	5.7	1	6010B	06-Oct	07-Oct	G
Copper, Total	4800	mg/kg	2.8	1	6010B	06-Oct	07-Oct	MG
Iron, Total	16000	mg/kg	14.	1	6010B	06-Oct	07-Oct	LP
Lead, Total	750	mg/kg	14.	1	6010B	06-Oct	07-Oct	G
Magnesium, Total	2400	mg/kg	28.	1	6010B	06-Oct	07-Oct	P
Manganese, Total	230	mg/kg	2.8	1	6010B	06-Oct	07-Oct	LP
Mercury, Total	5.9	mg/kg	1.8	1	7471A	06-Oct	07-Oct	TT
Nickel, Total	40.	mg/kg	7.1	1	6010B	06-Oct	07-Oct	G
Potassium, Total	ND	mg/kg	710	1	6010B	06-Oct	07-Oct	P
Selenium, Total	ND	mg/kg	5.7	1	6010B	06-Oct	07-Oct	MG
Silver, Total	110	mg/kg	2.8	1	6010B	06-Oct	07-Oct	G
Sodium, Total	320	mg/kg	140	1	6010B	06-Oct	07-Oct	P
Thallium, Total	ND	mg/kg	5.7	1	6010B	06-Oct	07-Oct	MG
Tin, Total	81.	mg/kg	14.	1	6010B	06-Oct	07-Oct	LP
Vanadium, Total	140	mg/kg	2.8	1	6010B	06-Oct	07-Oct	G
Zinc, Total	220	mg/kg	14.	1	6010B	06-Oct	07-Oct	G
Polychlorinated Biphenyls				1	8082	06-Oct	07-Oct	PB
Aroclor 1221	ND	ug/kg	1790					
Aroclor 1232	ND	ug/kg	1790					
Aroclor 1242/1016	ND	ug/kg	1790					
Aroclor 1248	ND	ug/kg	1790					
Aroclor 1254	ND	ug/kg	1790					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908021-04
T-8-9

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	06-Oct 07-Oct	PB
Aroclor 1260	3020	ug/kg	1790				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	110.	%					
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: L9908021-05
T-8-11
Sample Matrix: SOIL

Date Collected: 05-OCT-1999
Date Received : 05-OCT-1999
Date Reported : 13-OCT-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID	
						PREP	ANALYSIS		
Solids, Total	21.	%	0.10	30	2540G		06-Oct	J K	
Chromium, Hexavalent	ND	mg/kg	12.	1	7196A		08-Oct	J T	
Total Metals					1	3051			
Aluminum, Total	8400	mg/kg	19.	1	6010B	06-Oct	07-Oct	J P	
Antimony, Total	ND	mg/kg	9.4	1	6010B	06-Oct	07-Oct	J G	
Arsenic, Total	4.3	mg/kg	1.9	1	6010B	06-Oct	07-Oct	MG	
Barium, Total	75.	mg/kg	1.9	1	6010B	06-Oct	07-Oct	MG	
Beryllium, Total	ND	mg/kg	0.94	1	6010B	06-Oct	07-Oct	J P	
Cadmium, Total	2.2	mg/kg	1.9	1	6010B	06-Oct	07-Oct	MG	
Calcium, Total	2700	mg/kg	94.	1	6010B	06-Oct	07-Oct	LP	
Chromium, Total	2000	mg/kg	1.9	1	6010B	06-Oct	07-Oct	J G	
Cobalt, Total	ND	mg/kg	3.8	1	6010B	06-Oct	07-Oct	J G	
Copper, Total	1200	mg/kg	1.9	1	6010B	06-Oct	07-Oct	MG	
Iron, Total	10000	mg/kg	9.4	1	6010B	06-Oct	07-Oct	LP	
Lead, Total	400	mg/kg	9.4	1	6010B	06-Oct	07-Oct	J G	
Magnesium, Total	1500	mg/kg	19.	1	6010B	06-Oct	07-Oct	J P	
Manganese, Total	170	mg/kg	1.9	1	6010B	06-Oct	07-Oct	LP	
Mercury, Total	2.5	mg/kg	1.2	1	7471A	06-Oct	07-Oct	T T	
Nickel, Total	18.	mg/kg	4.7	1	6010B	06-Oct	07-Oct	J G	
Potassium, Total	ND	mg/kg	470	1	6010B	06-Oct	07-Oct	J P	
Selenium, Total	ND	mg/kg	3.8	1	6010B	06-Oct	07-Oct	MG	
Silver, Total	23.	mg/kg	1.9	1	6010B	06-Oct	07-Oct	J G	
Sodium, Total	190	mg/kg	94.	1	6010B	06-Oct	07-Oct	J P	
Thallium, Total	ND	mg/kg	3.8	1	6010B	06-Oct	07-Oct	MG	
Tin, Total	26.	mg/kg	9.4	1	6010B	06-Oct	07-Oct	LP	
Vanadium, Total	53.	mg/kg	1.9	1	6010B	06-Oct	07-Oct	J G	
Zinc, Total	110	mg/kg	9.4	1	6010B	06-Oct	07-Oct	J G	
Polychlorinated Biphenyls					1	8082	06-Oct	08-Oct	P B
Aroclor 1221	ND	ug/kg	1190						
Aroclor 1232	ND	ug/kg	1190						
Aroclor 1242/1016	ND	ug/kg	1190						
Aroclor 1248	ND	ug/kg	1190						
Aroclor 1254	ND	ug/kg	1190						

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908021-05
 T-8-11

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	06-Oct 08-Oct	PB
Aroclor 1260	9590	ug/kg	1190				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	107.	%					
Decachlorobiphenyl	49.0	%					

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: L9908021-06
T-8-13

Date Collected: 05-OCT-1999
Date Received : 05-OCT-1999
Date Reported : 13-OCT-99

Sample Matrix: SOIL

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Solids, Total	32.	%	0.10	30	2540G		06-Oct	J
Chromium, Hexavalent	ND	mg/kg	7.8	1	7196A		08-Oct	J
Total Metals				1	3051			
Aluminum, Total	8000	mg/kg	12.	1	6010B	06-Oct	07-Oct	P
Antimony, Total	ND	mg/kg	6.2	1	6010B	06-Oct	07-Oct	S
Arsenic, Total	4.6	mg/kg	1.2	1	6010B	06-Oct	07-Oct	MG
Barium, Total	41.	mg/kg	1.2	1	6010B	06-Oct	07-Oct	MG
Beryllium, Total	ND	mg/kg	0.62	1	6010B	06-Oct	07-Oct	P
Cadmium, Total	2.4	mg/kg	1.2	1	6010B	06-Oct	07-Oct	MG
Calcium, Total	1800	mg/kg	62.	1	6010B	06-Oct	07-Oct	LP
Chromium, Total	380	mg/kg	1.2	1	6010B	06-Oct	07-Oct	S
Cobalt, Total	3.0	mg/kg	2.5	1	6010B	06-Oct	07-Oct	S
Copper, Total	320	mg/kg	1.2	1	6010B	06-Oct	07-Oct	MG
Iron, Total	5600	mg/kg	6.2	1	6010B	06-Oct	07-Oct	LP
Lead, Total	130	mg/kg	6.2	1	6010B	06-Oct	07-Oct	S
Magnesium, Total	820	mg/kg	12.	1	6010B	06-Oct	07-Oct	P
Manganese, Total	68.	mg/kg	1.2	1	6010B	06-Oct	07-Oct	LP
Mercury, Total	ND	mg/kg	0.78	1	7471A	06-Oct	07-Oct	TT
Nickel, Total	12.	mg/kg	3.1	1	6010B	06-Oct	07-Oct	S
Potassium, Total	ND	mg/kg	310	1	6010B	06-Oct	07-Oct	LP
Selenium, Total	ND	mg/kg	2.5	1	6010B	06-Oct	07-Oct	MG
Silver, Total	4.6	mg/kg	1.2	1	6010B	06-Oct	07-Oct	S
Sodium, Total	180	mg/kg	62.	1	6010B	06-Oct	07-Oct	P
Thallium, Total	ND	mg/kg	2.5	1	6010B	06-Oct	07-Oct	MG
Tin, Total	ND	mg/kg	6.2	1	6010B	06-Oct	07-Oct	LP
Vanadium, Total	29.	mg/kg	1.2	1	6010B	06-Oct	07-Oct	S
Zinc, Total	87.	mg/kg	6.2	1	6010B	06-Oct	07-Oct	S
Polychlorinated Biphenyls				1	8082		06-Oct 08-Oct	DR
Aroclor 1221	ND	ug/kg	782.					
Aroclor 1232	ND	ug/kg	782.					
Aroclor 1242/1016	ND	ug/kg	782.					
Aroclor 1248	ND	ug/kg	782.					
Aroclor 1254	ND	ug/kg	782.					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908021-06
T-8-13

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	06-Oct 08-Oct	PB
Aroclor 1260	ND	ug/kg	782.				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	117.	%					
Decachlorobiphenyl	77.0	%					

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: L9908021-07

Date Collected: 05-OCT-1999

T-8-14

Date Received : 05-OCT-1999

Sample Matrix: SOIL

Date Reported : 13-OCT-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		I
						PREP	ANALYSIS	
Solids, Total	31.	%	0.10	30	2540G	06-Oct		JK
Chromium, Hexavalent	ND	mg/kg	8.1	1	7196A	08-Oct		TI
Total Metals				1	3051			
Aluminum, Total	7500	mg/kg	13.	1	6010B	06-Oct	07-Oct	JP
Antimony, Total	ND	mg/kg	6.3	1	6010B	06-Oct	07-Oct	JG
Arsenic, Total	4.7	mg/kg	1.3	1	6010B	06-Oct	07-Oct	MG
Barium, Total	28.	mg/kg	1.3	1	6010B	06-Oct	07-Oct	JG
Beryllium, Total	0.67	mg/kg	0.63	1	6010B	06-Oct	07-Oct	JP
Cadmium, Total	0.93	mg/kg	0.65	1	6010B	06-Oct	07-Oct	MG
Calcium, Total	2600	mg/kg	63.	1	6010B	06-Oct	07-Oct	LP
Chromium, Total	52.	mg/kg	1.3	1	6010B	06-Oct	07-Oct	JG
Cobalt, Total	2.6	mg/kg	2.5	1	6010B	06-Oct	07-Oct	JG
Copper, Total	43.	mg/kg	1.3	1	6010B	06-Oct	07-Oct	MG
Iron, Total	8300	mg/kg	6.3	1	6010B	06-Oct	07-Oct	LP
Lead, Total	220	mg/kg	6.3	1	6010B	06-Oct	07-Oct	JG
Magnesium, Total	730	mg/kg	13.	1	6010B	06-Oct	07-Oct	JP
Manganese, Total	53.	mg/kg	1.3	1	6010B	06-Oct	07-Oct	LP
Mercury, Total	0.87	mg/kg	0.81	1	7471A	06-Oct	07-Oct	TT
Nickel, Total	8.4	mg/kg	3.2	1	6010B	06-Oct	07-Oct	JG
Potassium, Total	ND	mg/kg	320	1	6010B	06-Oct	07-Oct	LP
Selenium, Total	ND	mg/kg	2.5	1	6010B	06-Oct	07-Oct	MG
Silver, Total	1.5	mg/kg	1.3	1	6010B	06-Oct	07-Oct	JG
Sodium, Total	200	mg/kg	63.	1	6010B	06-Oct	07-Oct	JP
Thallium, Total	ND	mg/kg	2.5	1	6010B	06-Oct	07-Oct	MG
Tin, Total	ND	mg/kg	6.3	1	6010B	06-Oct	07-Oct	LP
Vanadium, Total	26.	mg/kg	1.3	1	6010B	06-Oct	07-Oct	JG
Zinc, Total	20.	mg/kg	6.3	1	6010B	06-Oct	07-Oct	JG
Polychlorinated Biphenyls				1	8082	06-Oct	08-Oct	TP
Aroclor 1221	ND	ug/kg	806.					
Aroclor 1232	ND	ug/kg	806.					
Aroclor 1242/1016	ND	ug/kg	806.					
Aroclor 1248	ND	ug/kg	806.					
Aroclor 1254	ND	ug/kg	806.					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908021-07
T-8-14

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	06-Oct 08-Oct	PB
Aroclor 1260	ND	ug/kg	806.				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	114.	%					
Decachlorobiphenyl	61.0	%					

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: L9908021-08
T-8-7

Date Collected: 05-OCT-1999
Date Received : 05-OCT-1999
Date Reported : 13-OCT-99

Sample Matrix: SOIL

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Solids, Total	13.	%	0.10	30	2540G		07-Oct	J K
Chromium, Hexavalent	ND	mg/kg	19.	1	7196A		12-Oct	J T
Total Metals				1	3051			
Aluminum, Total	6800	mg/kg	30.	1	6010B	06-Oct	07-Oct	J P
Antimony, Total	ND	mg/kg	15.	1	6010B	06-Oct	07-Oct	J G
Arsenic, Total	17.	mg/kg	3.0	1	6010B	06-Oct	07-Oct	MG
Barium, Total	80.	mg/kg	3.0	1	6010B	06-Oct	07-Oct	MG
Beryllium, Total	ND	mg/kg	1.5	1	6010B	06-Oct	07-Oct	J P
Cadmium, Total	3.4	mg/kg	3.0	1	6010B	06-Oct	07-Oct	MG
Calcium, Total	3800	mg/kg	150	1	6010B	06-Oct	07-Oct	LP
Chromium, Total	1800	mg/kg	3.0	1	6010B	06-Oct	07-Oct	J G
Cobalt, Total	ND	mg/kg	6.1	1	6010B	06-Oct	07-Oct	J G
Copper, Total	1500	mg/kg	3.0	1	6010B	06-Oct	07-Oct	MG
Iron, Total	9900	mg/kg	15.	1	6010B	06-Oct	07-Oct	LP
Lead, Total	390	mg/kg	15.	1	6010B	06-Oct	07-Oct	J G
Magnesium, Total	1400	mg/kg	30.	1	6010B	06-Oct	07-Oct	J P
Manganese, Total	150	mg/kg	3.0	1	6010B	06-Oct	07-Oct	LP
Mercury, Total	4.0	mg/kg	1.9	1	7471A	06-Oct	07-Oct	J T
Nickel, Total	22.	mg/kg	7.6	1	6010B	06-Oct	07-Oct	J G
Potassium, Total	ND	mg/kg	760	1	6010B	06-Oct	07-Oct	MP
Selenium, Total	ND	mg/kg	6.1	1	6010B	06-Oct	07-Oct	MG
Silver, Total	34.	mg/kg	3.0	1	6010B	06-Oct	07-Oct	J G
Sodium, Total	420	mg/kg	150	1	6010B	06-Oct	07-Oct	J P
Thallium, Total	ND	mg/kg	6.1	1	6010B	06-Oct	07-Oct	MG
Tin, Total	28.	mg/kg	15.	1	6010B	06-Oct	07-Oct	LP
Vanadium, Total	73.	mg/kg	3.0	1	6010B	06-Oct	07-Oct	J G
Zinc, Total	150	mg/kg	15.	1	6010B	06-Oct	07-Oct	J G
Polychlorinated Biphenyls				1	8082	06-Oct	08-Oct	DB
Aroclor 1221	ND	ug/kg	1920					
Aroclor 1232	ND	ug/kg	1920					
Aroclor 1242/1016	ND	ug/kg	1920					
Aroclor 1248	ND	ug/kg	1920					
Aroclor 1254	ND	ug/kg	1920					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908021-08
T-8-7

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	06-Oct 08-Oct	PB
Aroclor 1260	4420	ug/kg	1920				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	118.	%					
Decachlorobiphenyl	62.0	%					

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: L9908021-09
 T-7-9
 Date Collected: 05-OCT-1999
 Date Received : 05-OCT-1999
 Sample Matrix: SOIL
 Date Reported : 13-OCT-99
 Condition of Sample: Satisfactory
 Field Prep: None
 Number & Type of Containers: 1-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP ANALYSIS	TD
Solids, Total	14.	%	0.10	30	2540G	07-Oct	K
Polychlorinated Biphenyls				1	8082	06-Oct 08-Oct	PB
Aroclor 1221	ND	ug/kg	1790				
Aroclor 1232	ND	ug/kg	1790				
Aroclor 1242/1016	ND	ug/kg	1790				
Aroclor 1248	ND	ug/kg	1790				
Aroclor 1254	ND	ug/kg	1790				
Aroclor 1260	30900	ug/kg	1790				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	113.	%					
Decachlorobiphenyl	50.0	%					

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: L9908021-10
 T-7-11
 Sample Matrix: SOIL
 Condition of Sample: Satisfactory
 Number & Type of Containers: 1-40ml VOA

Date Collected: 05-OCT-1999
 Date Received : 05-OCT-1999
 Date Reported : 13-OCT-99
 Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	10.	%	0.10	30	2540G	08-Oct	ST

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908021-10
T-7-11

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	II
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Volatile Petroleum Hydrocarbons				47	98-1	13-Oct	IC
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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	14.8		
C9-C12 Aliphatics	ND	mg/kg	14.8		
C9-C10 Aromatics	ND	mg/kg	14.8		
C5-C8 Aliphatics, Adjusted	ND	mg/kg	14.8		
C9-C12 Aliphatics, Adjusted	ND	mg/kg	14.8		
Benzene	ND	mg/kg	1.48		
Toluene	ND	mg/kg	1.48		
Ethylbenzene	ND	mg/kg	1.48		
p/m-Xylene	ND	mg/kg	1.48		
o-Xylene	ND	mg/kg	1.48		
Methyl tert butyl ether	ND	mg/kg	14.8		
Naphthalene	ND	mg/kg	14.8		

Surrogate Recovery

2,5-Dibromotoluene	113.	%			
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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: L9908021-11
 T-7-14
 Date Collected: 05-OCT-1999
 Date Received : 05-OCT-1999
 Sample Matrix: SOIL
 Date Reported : 13-OCT-99
 Condition of Sample: Satisfactory
 Field Prep: None
 Number & Type of Containers: 1-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	58.	%	0.10	30	2540G		07-Oct KK
Polychlorinated Biphenyls				1	8082	06-Oct 08-Oct	PB
Aroclor 1221	ND	ug/kg	432.				
Aroclor 1232	ND	ug/kg	432.				
Aroclor 1242/1016	ND	ug/kg	432.				
Aroclor 1248	ND	ug/kg	432.				
Aroclor 1254	ND	ug/kg	432.				
Aroclor 1260	ND	ug/kg	432.				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	136.	%					
Decachlorobiphenyl	63.0	%					

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: L9908021-12 Date Collected: 05-OCT-1999
 T-7-C Date Received : 05-OCT-1999
 Sample Matrix: SOIL Date Reported : 13-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	19.	%	0.10	30	2540G		06-Oct	J K
Chromium, Hexavalent	ND	mg/kg	13.	1	7196A		07-Oct	J T
Total Metals				1	3051			
Aluminum, Total	7900	mg/kg	21.	1	6010B	06-Oct	07-Oct	J P
Antimony, Total	ND	mg/kg	10.	1	6010B	06-Oct	07-Oct	J G
Arsenic, Total	25.	mg/kg	2.1	1	6010B	06-Oct	07-Oct	J MG
Barium, Total	98.	mg/kg	2.1	1	6010B	06-Oct	07-Oct	J MG
Beryllium, Total	ND	mg/kg	1.0	1	6010B	06-Oct	07-Oct	J P
Cadmium, Total	10.	mg/kg	2.1	1	6010B	06-Oct	07-Oct	J G
Calcium, Total	3300	mg/kg	100	1	6010B	06-Oct	07-Oct	J LP
Chromium, Total	680	mg/kg	2.1	1	6010B	06-Oct	07-Oct	J G
Cobalt, Total	4.9	mg/kg	4.2	1	6010B	06-Oct	07-Oct	J G
Copper, Total	1000	mg/kg	2.1	1	6010B	06-Oct	07-Oct	J MG
Iron, Total	6200	mg/kg	10.	1	6010B	06-Oct	07-Oct	J LP
Lead, Total	260	mg/kg	10.	1	6010B	06-Oct	07-Oct	J G
Magnesium, Total	1200	mg/kg	21.	1	6010B	06-Oct	07-Oct	J P
Manganese, Total	160	mg/kg	2.1	1	6010B	06-Oct	07-Oct	J LP
Mercury, Total	1.9	mg/kg	1.3	1	7471A	06-Oct	07-Oct	J TT
Nickel, Total	22.	mg/kg	5.2	1	6010B	06-Oct	07-Oct	J G
Potassium, Total	ND	mg/kg	520	1	6010B	06-Oct	07-Oct	J P
Selenium, Total	ND	mg/kg	4.2	1	6010B	06-Oct	07-Oct	J MG
Silver, Total	79.	mg/kg	2.1	1	6010B	06-Oct	07-Oct	J G
Sodium, Total	260	mg/kg	100	1	6010B	06-Oct	07-Oct	J P
Thallium, Total	ND	mg/kg	4.2	1	6010B	06-Oct	07-Oct	J MG
Tin, Total	ND	mg/kg	10.	1	6010B	06-Oct	07-Oct	J LP
Vanadium, Total	46.	mg/kg	2.1	1	6010B	06-Oct	07-Oct	J G
Zinc, Total	280	mg/kg	10.	1	6010B	06-Oct	07-Oct	J G
PAH by GC/MS SIM 8270M				1	8270C-M	06-Oct	13-Oct	J MK
Acenaphthene	ND	ug/kg	420					
2-Chloronaphthalene	ND	ug/kg	420					
Fluoranthene	1900	ug/kg	420					
Naphthalene	ND	ug/kg	420					
Benzo(a)anthracene	750	ug/kg	420					

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9908021-12
T-7-C

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	06-Oct 13-Oct	MK
Benzo (a, e) pyrene	1200	ug/kg	420				
Benzo (b) fluoranthene	2000	ug/kg	420				
Benzo (k) fluoranthene	1600	ug/kg	420				
Chrysene	1800	ug/kg	420				
Acenaphthylene	ND	ug/kg	420				
Anthracene	ND	ug/kg	420				
Benzo (ghi) perylene	1300	ug/kg	420				
Fluorene	ND	ug/kg	420				
Phenanthrene	670	ug/kg	420				
Dibenzo (a, h) anthracene	ND	ug/kg	420				
Indeno (1, 2, 3-cd) Pyrene	1300	ug/kg	420				
Pyrene	1600	ug/kg	420				
1-Methylnaphthalene	ND	ug/kg	420				
2-Methylnaphthalene	ND	ug/kg	420				
Perylene	ND	ug/kg	420				
Biphenyl	ND	ug/kg	420				
Surrogate Recovery							
Nitrobenzene-d5	58.0	%					
2-Fluorobiphenyl	63.0	%					
4-Terphenyl-d14	87.0	%					
Polychlorinated Biphenyls				1	8082	06-Oct 08-Oct	PB
Aroclor 1221	ND	ug/kg	1320				
Aroclor 1232	ND	ug/kg	1320				
Aroclor 1242/1016	ND	ug/kg	1320				
Aroclor 1248	ND	ug/kg	1320				
Aroclor 1254	ND	ug/kg	1320				
Aroclor 1260	2660	ug/kg	1320				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	134.	%					
Decachlorobiphenyl	53.0	%					

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9908021-12
T-7-C

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Extractable Petroleum Hydrocarbons				46	98-1	06-Oct 10-Oct	TA

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	123.	mg/kg	52.6
C19-C36 Aliphatics	788.	mg/kg	52.6
C11-C22 Aromatics	493.	mg/kg	52.6

Surrogate Recovery

Chloro-Octadecane	107.	%
o-Terphenyl	100.	%
2-Fluorobiphenyl	96.0	%
2-Bromonaphthalene	59.0	%

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: L9908021-13
 T-7-9 0-6"
 Sample Matrix: SOIL

Date Collected: 05-OCT-1999
 Date Received : 05-OCT-1999
 Date Reported : 13-OCT-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	14.	%	0.10	30	2540G	07-Oct	KK
Chromium, Hexavalent	1600	mg/kg	18.	1	7196A	07-Oct	JT
Total Metals				1	3051		
Aluminum, Total	6400	mg/kg	28.	1	6010B	07-Oct 08-Oct	LP
Antimony, Total	43.	mg/kg	14.	1	6010B	07-Oct 07-Oct	MG
Arsenic, Total	17.	mg/kg	2.8	1	6010B	07-Oct 07-Oct	MG
Barium, Total	280	mg/kg	2.8	1	6010B	07-Oct 07-Oct	MG
Beryllium, Total	ND	mg/kg	1.4	1	6010B	07-Oct 07-Oct	MG
Cadmium, Total	7.9	mg/kg	2.8	1	6010B	07-Oct 07-Oct	MG
Calcium, Total	3000	mg/kg	140	1	6010B	07-Oct 08-Oct	LP
Chromium, Total	23000	mg/kg	2.8	1	6010B	07-Oct 07-Oct	MG
Cobalt, Total	ND	mg/kg	5.6	1	6010B	07-Oct 07-Oct	MG
Copper, Total	9600	mg/kg	2.8	1	6010B	07-Oct 07-Oct	MG
Iron, Total	12000	mg/kg	14.	1	6010B	07-Oct 08-Oct	LP
Lead, Total	1400	mg/kg	14.	1	6010B	07-Oct 07-Oct	MG
Magnesium, Total	1700	mg/kg	28.	1	6010B	07-Oct 08-Oct	LP
Manganese, Total	120	mg/kg	2.8	1	6010B	07-Oct 08-Oct	LP
Mercury, Total	14.	mg/kg	1.8	1	7471A	07-Oct 08-Oct	TT
Nickel, Total	16.	mg/kg	7.1	1	6010B	07-Oct 07-Oct	MG
Potassium, Total	ND	mg/kg	710	1	6010B	07-Oct 08-Oct	LP
Selenium, Total	ND	mg/kg	5.6	1	6010B	07-Oct 07-Oct	MG
Silver, Total	270	mg/kg	2.8	1	6010B	07-Oct 07-Oct	MG
Sodium, Total	280	mg/kg	140	1	6010B	07-Oct 08-Oct	LP
Thallium, Total	ND	mg/kg	5.6	1	6010B	07-Oct 07-Oct	MG
Tin, Total	660	mg/kg	14.	1	6010B	07-Oct 08-Oct	LP
Vanadium, Total	180	mg/kg	2.8	1	6010B	07-Oct 07-Oct	MG
Zinc, Total	200	mg/kg	14.	1	6010B	07-Oct 07-Oct	MG

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: L9908021-14
T-7-9 12-18"
Sample Matrix: SOIL

Date Collected: 05-OCT-1999
Date Received : 05-OCT-1999
Date Reported : 13-OCT-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Solids, Total	50.	%	0.10	30	2540G		07-Oct	JK
Chromium, Hexavalent	ND	mg/kg	5.0	1	7196A		08-Oct	JT
Total Metals				1	3051			
Aluminum, Total	4300	mg/kg	7.9	1	6010B	07-Oct	08-Oct	JP
Antimony, Total	ND	mg/kg	3.9	1	6010B	07-Oct	07-Oct	JG
Arsenic, Total	1.8	mg/kg	0.79	1	6010B	07-Oct	07-Oct	MG
Barium, Total	24.	mg/kg	0.79	1	6010B	07-Oct	07-Oct	JG
Beryllium, Total	0.57	mg/kg	0.39	1	6010B	07-Oct	07-Oct	JG
Cadmium, Total	ND	mg/kg	0.79	1	6010B	07-Oct	07-Oct	MG
Calcium, Total	1700	mg/kg	39.	1	6010B	07-Oct	08-Oct	LP
Chromium, Total	63.	mg/kg	0.79	1	6010B	07-Oct	07-Oct	JG
Cobalt, Total	1.6	mg/kg	1.6	1	6010B	07-Oct	07-Oct	JG
Copper, Total	81.	mg/kg	0.79	1	6010B	07-Oct	07-Oct	MG
Iron, Total	1800	mg/kg	3.9	1	6010B	07-Oct	08-Oct	LP
Lead, Total	22.	mg/kg	3.9	1	6010B	07-Oct	07-Oct	JG
Magnesium, Total	210	mg/kg	7.9	1	6010B	07-Oct	08-Oct	JP
Manganese, Total	88.	mg/kg	0.79	1	6010B	07-Oct	08-Oct	LP
Mercury, Total	ND	mg/kg	0.50	1	7471A	07-Oct	08-Oct	JT
Nickel, Total	3.8	mg/kg	2.0	1	6010B	07-Oct	07-Oct	JG
Potassium, Total	ND	mg/kg	200	1	6010B	07-Oct	08-Oct	JP
Selenium, Total	ND	mg/kg	1.6	1	6010B	07-Oct	07-Oct	MG
Silver, Total	1.9	mg/kg	0.79	1	6010B	07-Oct	07-Oct	JG
Sodium, Total	100	mg/kg	39.	1	6010B	07-Oct	08-Oct	JP
Thallium, Total	ND	mg/kg	1.6	1	6010B	07-Oct	07-Oct	MG
Tin, Total	ND	mg/kg	3.9	1	6010B	07-Oct	08-Oct	LP
Vanadium, Total	5.4	mg/kg	0.79	1	6010B	07-Oct	07-Oct	JG
Zinc, Total	38.	mg/kg	3.9	1	6010B	07-Oct	07-Oct	JG

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: L9908021-15
 T-7-14 0-6"

Date Collected: 05-OCT-1999
 Date Received : 05-OCT-1999
 Date Reported : 13-OCT-99

Sample Matrix: SOIL

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Solids, Total	56.	%	0.10	30	2540G		07-Oct	KK
Chromium, Hexavalent	ND	mg/kg	4.5	1	7196A		07-Oct	JT
Total Metals				1	3051			
Aluminum, Total	5900	mg/kg	7.1	1	6010B		07-Oct 08-Oct	LP
Antimony, Total	ND	mg/kg	3.5	1	6010B		07-Oct 07-Oct	MG
Arsenic, Total	4.0	mg/kg	0.71	1	6010B		07-Oct 07-Oct	MG
Barium, Total	14.	mg/kg	0.71	1	6010B		07-Oct 07-Oct	MG
Beryllium, Total	0.50	mg/kg	0.35	1	6010B		07-Oct 07-Oct	MG
Cadmium, Total	ND	mg/kg	0.71	1	6010B		07-Oct 07-Oct	MG
Calcium, Total	620	mg/kg	35.	1	6010B		07-Oct 08-Oct	LP
Chromium, Total	10.	mg/kg	0.71	1	6010B		07-Oct 07-Oct	MG
Cobalt, Total	ND	mg/kg	1.4	1	6010B		07-Oct 07-Oct	MG
Copper, Total	10.	mg/kg	0.71	1	6010B		07-Oct 07-Oct	MG
Iron, Total	7200	mg/kg	3.5	1	6010B		07-Oct 08-Oct	LP
Lead, Total	48.	mg/kg	3.5	1	6010B		07-Oct 07-Oct	MG
Magnesium, Total	500	mg/kg	7.1	1	6010B		07-Oct 08-Oct	LP
Manganese, Total	27.	mg/kg	0.71	1	6010B		07-Oct 08-Oct	LP
Mercury, Total	ND	mg/kg	0.45	1	7471A		07-Oct 08-Oct	TT
Nickel, Total	4.0	mg/kg	1.8	1	6010B		07-Oct 07-Oct	MG
Potassium, Total	ND	mg/kg	180	1	6010B		07-Oct 08-Oct	LP
Selenium, Total	ND	mg/kg	1.4	1	6010B		07-Oct 07-Oct	MG
Silver, Total	ND	mg/kg	0.71	1	6010B		07-Oct 07-Oct	MG
Sodium, Total	48.	mg/kg	35.	1	6010B		07-Oct 08-Oct	LP
Thallium, Total	ND	mg/kg	1.4	1	6010B		07-Oct 07-Oct	MG
Tin, Total	ND	mg/kg	3.5	1	6010B		07-Oct 08-Oct	LP
Vanadium, Total	12.	mg/kg	0.71	1	6010B		07-Oct 07-Oct	MG
Zinc, Total	15.	mg/kg	3.5	1	6010B		07-Oct 07-Oct	MG

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: L9908021-16
 T-7-14 12-18"
 Sample Matrix: SOIL
 Condition of Sample: Satisfactory
 Number & Type of Containers: 1-Glass

Date Collected: 05-OCT-1999
 Date Received : 05-OCT-1999
 Date Reported : 13-OCT-99
 Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Solids, Total	65.	%	0.10	30	2540G		07-Oct	K
Chromium, Hexavalent	ND	mg/kg	3.8	1	7196A		07-Oct	T
Total Metals				1	3051			
Aluminum, Total	7700	mg/kg	6.1	1	6010B	07-Oct	08-Oct	P
Antimony, Total	ND	mg/kg	3.0	1	6010B	07-Oct	07-Oct	G
Arsenic, Total	3.6	mg/kg	0.61	1	6010B	07-Oct	07-Oct	MG
Barium, Total	10.	mg/kg	0.61	1	6010B	07-Oct	07-Oct	G
Beryllium, Total	0.63	mg/kg	0.30	1	6010B	07-Oct	07-Oct	G
Cadmium, Total	ND	mg/kg	0.61	1	6010B	07-Oct	07-Oct	MG
Calcium, Total	490	mg/kg	30.	1	6010B	07-Oct	08-Oct	LP
Chromium, Total	7.4	mg/kg	0.61	1	6010B	07-Oct	07-Oct	G
Cobalt, Total	1.6	mg/kg	1.2	1	6010B	07-Oct	07-Oct	G
Copper, Total	4.2	mg/kg	0.61	1	6010B	07-Oct	07-Oct	MG
Iron, Total	6600	mg/kg	3.0	1	6010B	07-Oct	08-Oct	LP
Lead, Total	14.	mg/kg	3.0	1	6010B	07-Oct	07-Oct	G
Magnesium, Total	680	mg/kg	6.1	1	6010B	07-Oct	08-Oct	LP
Manganese, Total	39.	mg/kg	0.61	1	6010B	07-Oct	08-Oct	LP
Mercury, Total	ND	mg/kg	0.38	1	7471A	07-Oct	08-Oct	T
Nickel, Total	3.7	mg/kg	1.5	1	6010B	07-Oct	07-Oct	G
Potassium, Total	ND	mg/kg	150	1	6010B	07-Oct	08-Oct	LP
Selenium, Total	ND	mg/kg	1.2	1	6010B	07-Oct	07-Oct	MG
Silver, Total	ND	mg/kg	0.61	1	6010B	07-Oct	07-Oct	G
Sodium, Total	40.	mg/kg	30.	1	6010B	07-Oct	08-Oct	LP
Thallium, Total	ND	mg/kg	1.2	1	6010B	07-Oct	07-Oct	MG
Tin, Total	ND	mg/kg	3.0	1	6010B	07-Oct	08-Oct	LP
Vanadium, Total	10.	mg/kg	0.61	1	6010B	07-Oct	07-Oct	G
Zinc, Total	11.	mg/kg	3.0	1	6010B	07-Oct	07-Oct	G

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L9908021

Parameter	Value 1	Value 2	RPD	Units
Solids, Total for sample(s) 02-07,12				
Solids, Total	19.	20.	5	%
Solids, Total for sample(s) 01,08-09,11,13-16				
Solids, Total	65.	65.	0	%
Total Metals for sample(s) 01-08,12				
Aluminum, Total	7400	7300	1	mg/kg
Antimony, Total	ND	ND	NC	mg/kg
Arsenic, Total	7.6	7.4	3	mg/kg
Barium, Total	110	110	0	mg/kg
Beryllium, Total	ND	ND	NC	mg/kg
Cadmium, Total	5.2	5.4	4	mg/kg
Calcium, Total	4500	4400	2	mg/kg
Chromium, Total	320	320	0	mg/kg
Cobalt, Total	5.1	5.0	2	mg/kg
Copper, Total	640	660	3	mg/kg
Iron, Total	6200	6100	2	mg/kg
Lead, Total	250	250	0	mg/kg
Magnesium, Total	1400	1400	0	mg/kg
Manganese, Total	300	300	0	mg/kg
Nickel, Total	20.	20.	0	mg/kg
Potassium, Total	ND	ND	NC	mg/kg
Selenium, Total	ND	ND	NC	mg/kg
Silver, Total	24.	24.	0	mg/kg
Sodium, Total	540	530	2	mg/kg
Thallium, Total	ND	ND	NC	mg/kg
Tin, Total	ND	ND	NC	mg/kg
Vanadium, Total	35.	35.	0	mg/kg
Zinc, Total	170	170	0	mg/kg
Total Metals for sample(s) 13-16				
Aluminum, Total	6400	6800	6	mg/kg
Antimony, Total	43.	42.	2	mg/kg
Arsenic, Total	17.	17.	0	mg/kg
Barium, Total	280	290	4	mg/kg
Beryllium, Total	ND	ND	NC	mg/kg
Cadmium, Total	7.9	8.1	2	mg/kg
Calcium, Total	3000	3000	0	mg/kg
Chromium, Total	23000	24000	4	mg/kg
Cobalt, Total	ND	ND	NC	mg/kg
Copper, Total	9600	9700	1	mg/kg
Iron, Total	12000	14000	15	mg/kg
Lead, Total	1400	1500	7	mg/kg
Magnesium, Total	1700	1900	11	mg/kg
Manganese, Total	120	120	0	mg/kg
Nickel, Total	16.	16.	0	mg/kg
Potassium, Total	ND	ND	NC	mg/kg
Selenium, Total	ND	ND	NC	mg/kg

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L9908021

Continued

Parameter	Value 1	Value 2	RPD	Units
Total Metals for sample(s) 13-16				
Silver, Total	270	290	7	mg/kg
Sodium, Total	280	290	4	mg/kg
Thallium, Total	ND	ND	NC	mg/kg
Tin, Total	660	710	7	mg/kg
Vanadium, Total	180	190	5	mg/kg
Zinc, Total	200	200	0	mg/kg
Total Metals for sample(s) 01-08,12				
Mercury, Total	ND	ND	NC	mg/kg
Total Metals for sample(s) 13-16				
Mercury, Total	ND	ND	NC	mg/kg
Polychlorinated Biphenyls for sample(s) 01-09,11-12				
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	9590	2890	107	ug/kg
Surrogate Recovery				
2,4,5,6-Tetrachloro-m-xylene	107.	145.	30	%
Decachlorobiphenyl	49.0	56.0	13	%
Volatile Petroleum Hydrocarbons for sample(s) 10				
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) 02-03,12				
C9-C18 Aliphatics	123.	78.0	45	mg/kg
C19-C36 Aliphatics	788.	459.	53	mg/kg
C11-C22 Aromatics	493.	416.	17	mg/kg

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L9908021

Continued

Parameter	Value 1	Value 2	RPD	Units
Extractable Petroleum Hydrocarbons for sample(s) 02-03,12				
Surrogate Recovery				
Chloro-Octadecane	107.	82.0	26	%
o-Terphenyl	100.	95.0	5	%
2-Fluorobiphenyl	96.0	98.0	2	%
2-Bromonaphthalene	59.0	92.0	44	%

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L9908021

Parameter	% Recovery
Chromium, Hexavalent LCS for sample(s) 02-03,12-13,15-16	
Chromium, Hexavalent	92
Chromium, Hexavalent LCS for sample(s) 01,04-07,14	
Chromium, Hexavalent	91
Chromium, Hexavalent LCS for sample(s) 08	
Chromium, Hexavalent	94
Total Metals LCS for sample(s) 01-08,12	
Aluminum, Total	100
Antimony, Total	89
Arsenic, Total	96
Barium, Total	99
Beryllium, Total	96
Cadmium, Total	95
Calcium, Total	94
Chromium, Total	100
Cobalt, Total	100
Copper, Total	110
Iron, Total	95
Lead, Total	98
Magnesium, Total	93
Manganese, Total	110
Nickel, Total	99
Potassium, Total	86
Selenium, Total	90
Silver, Total	60
Sodium, Total	94
Thallium, Total	100
Vanadium, Total	100
Zinc, Total	100
Total Metals LCS for sample(s) 13-16	
Aluminum, Total	97
Antimony, Total	90
Arsenic, Total	92
Barium, Total	100
Beryllium, Total	100
Cadmium, Total	93
Calcium, Total	100
Chromium, Total	96
Cobalt, Total	99
Copper, Total	100
Lead, Total	97
Magnesium, Total	96
Nickel, Total	97
Potassium, Total	89
Selenium, Total	80

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L9908021

Continued

Parameter	% Recovery
Total Metals LCS for sample(s) 13-16	
Silver, Total	78
Sodium, Total	94
Thallium, Total	100
Vanadium, Total	99
Zinc, Total	97
Total Metals LCS for sample(s) 01-08,12	
Mercury, Total	104
Total Metals LCS for sample(s) 13-16	
Mercury, Total	107
PAH by GC/MS SIM 8270M LCS for sample(s) 02-03,12	
Acenaphthene	83
Pyrene	80
Surrogate Recovery	
Nitrobenzene-d5	75
2-Fluorobiphenyl	65
4-Terphenyl-d14	69
Polychlorinated Biphenyls LCS for sample(s) 01-09,11-12	
Aroclor 1242/1016	117
Aroclor 1260	117
Surrogate Recovery	
2,4,5,6-Tetrachloro-m-xylene	147
Decachlorobiphenyl	78
Volatile Petroleum Hydrocarbons LCS for sample(s) 10	
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) 02-03,12	
Naphthalene	89
Acenaphthene	94
Anthracene	82
Pyrene	79
Chrysene	77
Nonane (C9)	69
Tetradecane (C14)	96

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L9908021

Continued

Parameter	% Recovery
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Extractable Petroleum Hydrocarbons LCS for sample(s) 02-03,12

Nonadecane (C19)	91
Eicosane (C20)	129
Octacosane (C28)	69

Surrogate Recovery

Chloro-Octadecane	76
o-Terphenyl	91
2-Fluorobiphenyl	96
2-Bromonaphthalene	90

Total Metals SPIKE for sample(s) 01-08,12

Aluminum, Total	96
Arsenic, Total	96
Barium, Total	99
Beryllium, Total	96
Cadmium, Total	88
Calcium, Total	87
Chromium, Total	96
Cobalt, Total	100
Iron, Total	140
Lead, Total	95
Magnesium, Total	87
Manganese, Total	96
Nickel, Total	93
Potassium, Total	92
Selenium, Total	130
Sodium, Total	89
Thallium, Total	84
Vanadium, Total	94
Zinc, Total	96

Total Metals SPIKE for sample(s) 13-16

Arsenic, Total	99
Barium, Total	99
Beryllium, Total	95
Cadmium, Total	100
Calcium, Total	89
Chromium, Total	70
Cobalt, Total	95
Copper, Total	150
Lead, Total	85
Magnesium, Total	83
Manganese, Total	81
Nickel, Total	92
Potassium, Total	89
Selenium, Total	100
Sodium, Total	90
Thallium, Total	99

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L9908021

Continued

Parameter	% Recovery
Total Metals SPIKE for sample(s) 13-16	
Vanadium, Total	91
Zinc, Total	86
Total Metals SPIKE for sample(s) 01-08,12	
Mercury, Total	110
Total Metals SPIKE for sample(s) 13-16	
Mercury, Total	89

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L9908021

Parameter	MS %	MSD %	RPD
<hr/>			
PAH by GC/MS SIM 8270M for sample(s) 02-03,12			
Acenaphthene	87	98	12
Pyrene	89	89	0

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L9908021

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP ANALYSIS		
Blank Analysis for sample(s) 02-03,12-13,15-16								
Chromium, Hexavalent	ND	mg/kg	0.50	1	7196A		07-Oct	JT
Blank Analysis for sample(s) 01,04-07,14								
Chromium, Hexavalent	ND	mg/kg	0.50	1	7196A		08-Oct	JT
Blank Analysis for sample(s) 08								
Chromium, Hexavalent	ND	mg/kg	0.50	1	7196A		12-Oct	ST
Blank Analysis for sample(s) 01-08,12								
Total Metals				1	3051			
Aluminum, Total	ND	mg/kg	4.0	1	6010B	06-Oct	07-Oct	LP
Antimony, Total	ND	mg/kg	2.0	1	6010B	06-Oct	07-Oct	MG
Arsenic, Total	ND	mg/kg	0.40	1	6010B	06-Oct	07-Oct	MG
Barium, Total	ND	mg/kg	0.40	1	6010B	06-Oct	07-Oct	MG
Beryllium, Total	ND	mg/kg	0.20	1	6010B	06-Oct	07-Oct	LP
Cadmium, Total	ND	mg/kg	0.40	1	6010B	06-Oct	07-Oct	MG
Calcium, Total	ND	mg/kg	20.	1	6010B	06-Oct	07-Oct	LP
Chromium, Total	ND	mg/kg	0.40	1	6010B	06-Oct	07-Oct	MG
Cobalt, Total	ND	mg/kg	0.80	1	6010B	06-Oct	07-Oct	MG
Copper, Total	ND	mg/kg	0.40	1	6010B	06-Oct	07-Oct	MG
Iron, Total	ND	mg/kg	2.0	1	6010B	06-Oct	07-Oct	LP
Lead, Total	ND	mg/kg	2.0	1	6010B	06-Oct	07-Oct	MG
Magnesium, Total	ND	mg/kg	4.0	1	6010B	06-Oct	07-Oct	LP
Manganese, Total	ND	mg/kg	0.40	1	6010B	06-Oct	07-Oct	LP
Nickel, Total	ND	mg/kg	1.0	1	6010B	06-Oct	07-Oct	MG
Potassium, Total	ND	mg/kg	100	1	6010B	06-Oct	07-Oct	LP
Selenium, Total	ND	mg/kg	0.80	1	6010B	06-Oct	07-Oct	MG
Silver, Total	ND	mg/kg	0.40	1	6010B	06-Oct	07-Oct	MG
Sodium, Total	ND	mg/kg	20.	1	6010B	06-Oct	07-Oct	LP
Thallium, Total	ND	mg/kg	0.80	1	6010B	06-Oct	07-Oct	MG
Tin, Total	ND	mg/kg	2.0	1	6010B	06-Oct	07-Oct	LP
Vanadium, Total	ND	mg/kg	0.40	1	6010B	06-Oct	07-Oct	MG
Zinc, Total	ND	mg/kg	2.0	1	6010B	06-Oct	07-Oct	MG
Blank Analysis for sample(s) 13-16								
Total Metals				1	3051			
Aluminum, Total	ND	mg/kg	4.0	1	6010B	07-Oct	08-Oct	LP
Antimony, Total	ND	mg/kg	2.0	1	6010B	07-Oct	07-Oct	MG
Arsenic, Total	ND	mg/kg	0.40	1	6010B	07-Oct	07-Oct	MG
Barium, Total	ND	mg/kg	0.40	1	6010B	07-Oct	07-Oct	MG
Beryllium, Total	ND	mg/kg	0.20	1	6010B	07-Oct	07-Oct	MG
Cadmium, Total	ND	mg/kg	0.40	1	6010B	07-Oct	07-Oct	MG
Calcium, Total	ND	mg/kg	20.	1	6010B	07-Oct	08-Oct	LP

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L9908021

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		
						PREP	ANALYSIS	
Blank Analysis for sample(s) 13-16								
Total Metals				1	3051			
Chromium, Total	ND	mg/kg	0.40	1	6010B	07-Oct	07-Oct	JG
Cobalt, Total	ND	mg/kg	0.80	1	6010B	07-Oct	07-Oct	JG
Copper, Total	ND	mg/kg	0.40	1	6010B	07-Oct	07-Oct	MG
Iron, Total	ND	mg/kg	2.0	1	6010B	07-Oct	08-Oct	LP
Lead, Total	ND	mg/kg	2.0	1	6010B	07-Oct	07-Oct	JG
Magnesium, Total	ND	mg/kg	4.0	1	6010B	07-Oct	08-Oct	LP
Manganese, Total	ND	mg/kg	0.40	1	6010B	07-Oct	08-Oct	LP
Nickel, Total	ND	mg/kg	1.0	1	6010B	07-Oct	07-Oct	JG
Potassium, Total	ND	mg/kg	100	1	6010B	07-Oct	08-Oct	LP
Selenium, Total	ND	mg/kg	0.80	1	6010B	07-Oct	07-Oct	MG
Silver, Total	ND	mg/kg	0.40	1	6010B	07-Oct	07-Oct	MG
Sodium, Total	ND	mg/kg	20.	1	6010B	07-Oct	08-Oct	IE
Thallium, Total	ND	mg/kg	0.80	1	6010B	07-Oct	07-Oct	JG
Tin, Total	ND	mg/kg	2.0	1	6010B	07-Oct	08-Oct	LE
Vanadium, Total	ND	mg/kg	0.40	1	6010B	07-Oct	07-Oct	MG
Zinc, Total	ND	mg/kg	2.0	1	6010B	07-Oct	07-Oct	JG
Blank Analysis for sample(s) 01-08,12								
Total Metals								
Mercury, Total	ND	mg/kg	0.25	1	7471A	06-Oct	07-Oct	TI
Blank Analysis for sample(s) 13-16								
Total Metals								
Mercury, Total	ND	mg/kg	0.25	1	7471A	07-Oct	08-Oct	TI
Blank Analysis for sample(s) 02-03,12								
PAH by GC/MS SIM 8270M				1	8270C-M	06-Oct	07-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.					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L9908021

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Blank Analysis for sample(s) 02-03,12							
PAH by GC/MS SIM 8270M continued				1	8270C-M	06-Oct 07-Oct	MK
1-Methylnaphthalene	ND	ug/kg	20.				
2-Methylnaphthalene	ND	ug/kg	20.				
Surrogate Recovery							
Nitrobenzene-d5	47.0	%					
2-Fluorobiphenyl	50.0	%					
4-Terphenyl-d14	69.0	%					
Blank Analysis for sample(s) 01-09,11-12							
Polychlorinated Biphenyls				1	8082	06-Oct 07-Oct	PB
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	141.	%					
Decachlorobiphenyl	73.0	%					
Blank Analysis for sample(s) 10							
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	%					
Blank Analysis for sample(s) 02-03,12							
Extractable Petroleum Hydrocarbons				46	98-1	06-Oct 10-Oct	JA
C9-C18 Aliphatics	ND	mg/kg	10.0				
C19-C36 Aliphatics	ND	mg/kg	10.0				
C11-C22 Aromatics	ND	mg/kg	10.0				

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L9908021

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Blank Analysis for sample(s) 02-03,12						
Extractable Petroleum Hydrocarbons continued				46	98-1	06-Oct 10-Oct
Surrogate Recovery						
Chloro-Octadecane	120.	%				
o-Terphenyl	99.0	%				
2-Fluorobiphenyl	102.	%				
2-Bromonaphthalene	78.0	%				

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.

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CHAIN OF CUSTODY

No 000919

Sheet 1 of 2

Date Rec'd in Lab: 10/5

Client Name: ERM - John McTigue
 Client Address: 399 Bylston St.
Boston MA 02116
 Phone #: (617) 646-7842 FAX #: 267-1447

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

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

- Standard TAT 5 day
- RUSH TAT _____ (* DAYS)
- FAX Results
- State Forms
- Smart Report

Comments (Please note specific method, detection limit or reporting requirements.)
Refer to Alpha Bid - Revised Split w/ 8022
Check w/ Ellen or Scott or Call John McTigue
@ (617) 646-7842 or (617) 719-5868

ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	PCB 8082	PAHs 8270	EPH Standard	ICP Metals List	Total Organic Carbon	415.1 / SM531C / EPA	AUS / SEM / EPA Draft
T-8-C	Wetland Sediment	10/5/99		SA	N							
T-8-A												
T-8-6												
T-8-9												
T-8-11												
T-8-13												
T-8-14												
T-8-7												

All samples submitted are subject to Alpha's standard Terms and Conditions.
 * See Reverse side for Matrix, Container, and Preservative Codes.

# of Containers:	8	2	2	8	8	4
Container Type: *	6	6	6	6	6	6
Preservative:						

Transfers Relinquished By:	Transfers Accepted By:	Date	Time
<u>John McTigue</u>	<u>Theresa...</u>	<u>10/5/99</u>	<u>4:10</u>
<u>Theresa...</u>	<u>John McTigue</u>	<u>10/5/99</u>	<u>16:51</u>

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CHAIN OF CUSTODY

No 000918

Sheet 2 of 2

Date Rec'd in Lab: 10/5

Client Name: ERM - John McTigue
 Client Address: 399 Boylston St.
Boston MA
 Phone #: 617-646-7842 FAX #: 967-8447

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

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

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

Comments (Please note specific method, detection limit or reporting requirements.)
Same as sheet 1

ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	PCB 8082	PAHs 8270	EPH standard	ICP Metals List	TOC	AUS/SEM	VPH Reduce
T-7-9												
T-7-9						1			2	2	1	
T-7-11												1
T-7-14						1			2	2		
T-7-C						1	1	1	1	1		
T-7-9 0-6"												
T-7-9 12-18"												
T-7-14 0-6"												
T-7-14 12-18"												

Transfers Relinquished By:	Date	Time
<u>[Signature]</u>	10-5-99	4:20
<u>[Signature]</u>	10-5-99	16:54

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: 3 1 1 5 5 1 1
 Container Type: * 6
 Preservative: * None

ALPHA ANALYTICAL LABORATORIES

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(508) 898-9220

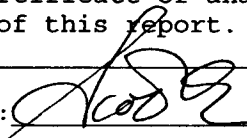
MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

CERTIFICATE OF ANALYSIS

Client: ERM-New England	Laboratory Job Number: L9908043
Address: 399 Boylston Street 6th Floor Boston, MA 02116	Invoice Number: 30717
Attn: John McTigue	Date Received: 05-OCT-99
Project Number: 143.48	Date Reported: 20-OCT-99
Site: RAYTHEON	Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9908043-01	T-8-9	WAYLAND, MA
L9908043-02	T-8-11	WAYLAND, MA
L9908043-03	T-8-13	WAYLAND, MA
L9908043-04	T-8-14	WAYLAND, MA
L9908043-05	T-7-9	WAYLAND, MA

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
CERTIFICATE OF ANALYSIS**

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

Laboratory Sample Number: L9908043-01
T-8-9

Date Collected: 05-OCT-1999
Date Received : 05-OCT-1999
Date Reported : 20-OCT-99

Sample Matrix: SOIL

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-125ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Solids, Total	14.	%	0.10	30	2540G		18-Oct	JT
Sulfide, Acid Volatile	ND	umoles/gm	0.357	36	-		18-Oct	JD
Simultaneously Acid Extractable Metals				36	-		19-Oct	MD
Antimony, Simul. Extractable	ND	umoles/gm	0.143					
Bismuth, Simul. Extractable	ND	umoles/gm	0.286					
Cadmium, Simul. Extractable	0.039	umoles/gm	0.014					
Chromium, Simul. Extractable	6.21	umoles/gm	0.028					
Copper, Simul. Extractable	40.2	umoles/gm	0.028					
Lead, Simul. Extractable	2.72	umoles/gm	0.143					
Mercury, Simul. Extractable	ND	umoles/gm	0.0007					
Nickel, Simul. Extractable	0.346	umoles/gm	0.071					
Zinc, Simul. Extractable	2.78	umoles/gm	0.028					

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: L9908043-02
 T-8-11
 Sample Matrix: SOIL
 Condition of Sample: Satisfactory
 Number & Type of Containers: 1-125ml VOA
 Date Collected: 05-OCT-1999
 Date Received : 05-OCT-1999
 Date Reported : 20-OCT-99
 Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	21.	%	0.10	30	2540G	18-Oct	JT
Sulfide, Acid Volatile	ND	umoles/gm	0.238	36	-	18-Oct	DD
Simultaneously Acid Extractable Metals				36	-	19-Oct	MD
Antimony, Simul. Extractable	ND	umoles/gm	0.095				
Bismuth, Simul. Extractable	ND	umoles/gm	0.190				
Cadmium, Simul. Extractable	0.014	umoles/gm	0.009				
Chromium, Simul. Extractable	2.24	umoles/gm	0.019				
Copper, Simul. Extractable	10.2	umoles/gm	0.019				
Lead, Simul. Extractable	1.41	umoles/gm	0.095				
Mercury, Simul. Extractable	ND	umoles/gm	0.0004				
Nickel, Simul. Extractable	0.158	umoles/gm	0.047				
Zinc, Simul. Extractable	1.01	umoles/gm	0.019				

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: L9908043-04	Date Collected: 05-OCT-1999
T-8-14	Date Received : 05-OCT-1999
Sample Matrix: SOIL	Date Reported : 20-OCT-99
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-125ml VOA	

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	31.	%	0.10	30	2540G	18-Oct	JT
Sulfide, Acid Volatile	ND	umoles/gm	0.161	36	-	18-Oct	DD
Simultaneously Acid Extractable Metals				36	-	19-Oct	MD
Antimony, Simul. Extractable	ND	umoles/gm	0.064				
Bismuth, Simul. Extractable	ND	umoles/gm	0.129				
Cadmium, Simul. Extractable	0.009	umoles/gm	0.006				
Chromium, Simul. Extractable	0.127	umoles/gm	0.012				
Copper, Simul. Extractable	0.528	umoles/gm	0.012				
Lead, Simul. Extractable	0.821	umoles/gm	0.064				
Mercury, Simul. Extractable	ND	umoles/gm	0.0003				
Nickel, Simul. Extractable	0.101	umoles/gm	0.032				
Zinc, Simul. Extractable	1.26	umoles/gm	0.012				

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: L9908043-05
 T-7-9
 Sample Matrix: SOIL
 Condition of Sample: Satisfactory
 Number & Type of Containers: 1-125ml VOA

Date Collected: 05-OCT-1999
 Date Received : 05-OCT-1999
 Date Reported : 20-OCT-99
 Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES	
						PREP	ANALYSIS
Solids, Total	14.	%	0.10	30	2540G		18-Oct
Sulfide, Acid Volatile	ND	umoles/gm	0.357	36	-		18-Oct
Simultaneously Acid Extractable Metals				36	-		19-Oct
Antimony, Simul. Extractable	ND	umoles/gm	0.143				
Bismuth, Simul. Extractable	ND	umoles/gm	0.286				
Cadmium, Simul. Extractable	0.054	umoles/gm	0.014				
Chromium, Simul. Extractable	33.5	umoles/gm	0.028				
Copper, Simul. Extractable	68.3	umoles/gm	0.028				
Lead, Simul. Extractable	4.48	umoles/gm	0.143				
Mercury, Simul. Extractable	ND	umoles/gm	0.0007				
Nickel, Simul. Extractable	0.116	umoles/gm	0.071				
Zinc, Simul. Extractable	2.34	umoles/gm	0.028				

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L9908043

Parameter	Value 1	Value 2	RPD	Units
Simultaneously Acid Extractable Metals for sample(s) 01-05				
Antimony, Simul. Extractable	ND	ND	NC	umoles/gm
Bismuth, Simul. Extractable	ND	ND	NC	umoles/gm
Cadmium, Simul. Extractable	0.039	0.039	0	umoles/gm
Chromium, Simul. Extractable	6.21	6.22	0	umoles/gm
Copper, Simul. Extractable	40.2	40.2	0	umoles/gm
Lead, Simul. Extractable	2.72	2.73	0	umoles/gm
Mercury, Simul. Extractable	ND	ND	NC	umoles/gm
Nickel, Simul. Extractable	0.346	0.345	0	umoles/gm
Zinc, Simul. Extractable	2.78	2.78	0	umoles/gm

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L9908043

Parameter	% Recovery
-----------	------------

Sulfide, Acid Volatile LCS for sample(s) 01-05

Sulfide, Acid Volatile	83
------------------------	----

Simultaneously Acid Extractable Metals SPIKE for sample(s) 01-05

Antimony, Simul. Extractable	98
Bismuth, Simul. Extractable	98
Cadmium, Simul. Extractable	100
Chromium, Simul. Extractable	90
Copper, Simul. Extractable	76
Lead, Simul. Extractable	96
Mercury, Simul. Extractable	122
Nickel, Simul. Extractable	101
Zinc, Simul. Extractable	98

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L9908043

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Blank Analysis for sample(s) 01-05							
Sulfide, Acid Volatile	ND	umoles/gm	0.050	36	-	18-Oct	DD

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

REFERENCES

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
36. Draft Analytical Method for Determination of Acid Volatile Sulfide and Selected Simultaneously Extractable Metals in Sediment. PB93-155901, 1991.

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

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CHAIN OF CUSTODY

No 000336

Sheet _____ of _____

Date Rec'd in Lab: 10/5

Client Name: ERM
 Client Address: _____
 Phone #: _____ FAX #: _____

Project Name: _____
 Project Location: _____
 Project #: _____
 Project Manager: John McTigue

Report To: _____
 Bill To: _____
 PO#: _____

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

Comments (Please note specific method, detection limit or reporting requirements.)
 Relay of 8021. 4, 5, 6, 7, 9

ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)												
T-8-9	S	10/5				X											
T-8-11																	
T-8-13																	
T-8-14																	
T-7-9																	

Transfers Relinquished By:	Date	Time
<u>[Signature]</u>	10/5/96	1654

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

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

# of Containers:	1
Container Type: *	G
Preservative: *	A

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CHAIN OF CUSTODY

No 000919

Sheet 1 of 2

ALPHA Job #:

9908021

Date Rec'd in Lab:

10/5

Date Due:

10/13

Client Name: ERM - John McTigue
 Client Address: 399 Baylston St.
Boston MA 02116
 Phone #: (617) 646-7842 FAX #: 267-16417

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

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

Standard TAT 5 day
 RUSH TAT _____
 (* DAYS)
 FAX Results
 State Forms
 Smart Report

Comments (Please note specific method, detection limit or reporting requirements.)
Refer to Alpha Bid - Revised Split w/ 8022
8043
Check w/ Elton or Scott or Call John McTigue
@ (617) 646-7842 or (617) 719-5868

ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	PCB 8082	PAHs 8270	EPH Standard	ICP Metals List	Total Organic Carbon	LAHS-1/SMSSIC/EPA	AUS/SEM/EPA Draft
1	Weyland Sediment	10/5/99		SA	N							
2		T-8-A										
3		T-8-6										
4		T-8-9										
5		T-8-11										
6		T-8-13										
7		T-8-14										
8		T-8-7										

Transfers Accepted By:	Date	Time
<i>[Signature]</i>	10/5/99	1400
<i>[Signature]</i>	10/5/99	1654

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

of Containers: 8 2 2 8 8 4
 # of Containers: 6 6 6 6 6 6

ALPHA Analytical Laboratories, Inc.

CHAIN OF CUSTODY

ALPHA Job #: **99080**

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

No 000918

Sheet 2 of 2

Date Rec'd in Lab: 10/5 Date Due: 10/13

Client Name: ERM - John McTigue
 Client Address: 399 Boylston St
Boston MA
 Phone #: 617-646-7842 FAX #: 267-6447

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

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

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

Comments (Please note specific method, detection limit or reporting requirements.)
Same as Sheet 1

ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	PCB 8082	PAHs 8270	EPH Standard	ICP Metals List	TOC	AUS/SEM	VPH Deluxe
T-7-9												
T-7-9						1			2 2	1		
T-7-11											1	
T-7-14						1			2 2			
T-7-C						1	1	1	1 1			

of Containers: 3 5 5
 Container Type: 6 5 5

Transfers Accepted By:	Date	Time
<i>[Signature]</i>	10-5-99	4:20
<i>[Signature]</i>	10-11-99	10:55

All samples submitted are subject to Alpha's standard Terms and Conditions.
 * See Reverse side for Matrix, Container, and Preservative Codes.

Containers Relinquished By: *[Signature]*