

ALPHA ANALYTICAL LABORATORIES

Eight Wal kup Drive  
 Westborough, Massachusetts 01581-1019  
 (508) 898-9220

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65 NY: 11148

CERTIFICATE OF ANALYSIS

Client: ERM-New England	Laboratory Job Number: L0109596
Address: 399 Boylston Street 6th Floor Boston, MA 02116	Invoice Number: 55799
Attn: Mr. Joe Fiacco	Date Received: 15-OCT-01
Project Number: 143.60	Date Reported: 22-OCT-01
Site: RAYTHEON - WAYLAND	Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0109596-01	MW-104	WAYLAND, MA
L0109596-02	MW-105	WAYLAND, MA
L0109596-03	MW-106	WAYLAND, MA
L0109596-04	MW-43S	WAYLAND, MA
L0109596-05	MW-107	WAYLAND, MA
L0109596-06	MW-108	WAYLAND, MA
L0109596-07	MW-109	WAYLAND, MA
L0109596-08	MW-110	WAYLAND, MA
L0109596-09	MW-111	WAYLAND, MA
L0109596-10	MW-112	WAYLAND, MA
L0109596-11	MW-113	WAYLAND, MA
L0109596-12	MW-114	WAYLAND, MA
L0109596-13	MW-115	WAYLAND, MA
L0109596-14	MW-116	WAYLAND, MA
L0109596-15	MW-33S	WAYLAND, MA
L0109596-16	MW-33M	WAYLAND, MA
L0109596-17	MW-104 10/8/01	WAYLAND, MA
L0109596-18	MW-105 10/8/01	WAYLAND, MA
L0109596-19	MW-106 10/8/01	WAYLAND, MA
L0109596-20	MW-43S 10/8/01	WAYLAND, MA
L0109596-21	MW-107 10/8/01	WAYLAND, MA
L0109596-22	MW-108 10/8/01	WAYLAND, MA
L0109596-23	MW-109 10/8/01	WAYLAND, MA
L0109596-24	MW-110 10/8/01	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

Scott McLean - Laboratory Director  
 This document electronically signed

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0109596  
 Date Reported: 22-OCT-01

---

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0109596-25	MW-111 10/8/01	WAYLAND, MA
L0109596-26	MW-112 10/8/01	WAYLAND, MA
L0109596-27	MW-113 10/8/01	WAYLAND, MA
L0109596-28	MW-114 10/8/01	WAYLAND, MA
L0109596-29	MW-115 10/8/01	WAYLAND, MA
L0109596-30	MW-116 10/8/01	WAYLAND, MA
L0109596-31	MW-33S 10/8/01	WAYLAND, MA
L0109596-32	MW-33M 10/8/01	WAYLAND, MA
L0109596-33	MW-107 10/10/01	WAYLAND, MA
L0109596-34	MW-108 10/10/01	WAYLAND, MA
L0109596-35	MW-111 10/10/01	WAYLAND, MA
L0109596-36	MW-112 10/10/01	WAYLAND, MA
L0109596-37	MW-113 10/10/01	WAYLAND, MA
L0109596-38	MW-114 10/10/01	WAYLAND, MA
L0109596-39	MW-115 10/10/01	WAYLAND, MA
L0109596-40	MW-116 10/10/01	WAYLAND, MA
L0109596-41	MW-33S 10/10/01	WAYLAND, MA
L0109596-42	MW-111 10/12/01	WAYLAND, MA
L0109596-43	MW-112 10/12/01	WAYLAND, MA
L0109596-44	MW-113 10/12/01	WAYLAND, MA
L0109596-45	MW-114 10/12/01	WAYLAND, MA
L0109596-46	MW-115 10/12/01	WAYLAND, MA
L0109596-47	MW-116 10/12/01	WAYLAND, MA
L0109596-48	MW-33S 10/12/01	WAYLAND, MA
L0109596-49	MW-111 10/14/01	WAYLAND, MA
L0109596-50	MW-112 10/14/01	WAYLAND, MA
L0109596-51	MW-113 10/14/01	WAYLAND, MA
L0109596-52	MW-114 10/14/01	WAYLAND, MA
L0109596-53	MW-115 10/14/01	WAYLAND, MA
L0109596-54	MW-116 10/14/01	WAYLAND, MA
L0109596-55	MW-33S 10/14/01	WAYLAND, MA

ALPHA ANALYTICAL LABORATORIES  
NARRATIVE REPORT

Laboratory Job Number: L0109596

---

Alpha Report L0109596:

Please note the matrix spike percent recovery for Fluoride analysis on Alpha Sample(s) L0109596-23, -24, -53, and -54 is outside the acceptance criteria for the method. The low recovery has been attributed to matrix interference.

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: L0109596-01 Date Collected: 05-OCT-2001 19:40  
MW-104 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
-----------	--------	-------	-----	------------	--------------	--------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-02 Date Collected: 05-OCT-2001 19:55  
MW-105 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-03 Date Collected: 05-OCT-2001 20:20  
MW-106 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-04 Date Collected: 05-OCT-2001 19:10  
MW-43S Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-05 Date Collected: 05-OCT-2001 17:30  
MW-107 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-06 Date Collected: 05-OCT-2001 17:50  
MW-108 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
-----------	--------	-------	-----	------------	--------------	--------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-07 Date Collected: 05-OCT-2001 16:40  
MW-109 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-08 Date Collected: 05-OCT-2001 17:15  
MW-110 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
-----------	--------	-------	-----	------------	--------------	------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-09 Date Collected: 05-OCT-2001 14:40  
MW-111 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-10 Date Collected: 05-OCT-2001 14:20  
MW-112 Date Received : 15-OCT-2001  
Sample Matrix: WATER Date Reported : 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-11 Date Collected: 05-OCT-2001 15:35  
MW-113 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-12 Date Collected: 05-OCT-2001 15:10  
MW-114 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-13 Date Collected: 05-OCT-2001 16:00  
MW-115 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-14 Date Collected: 05-OCT-2001 16:20  
MW-116 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
-----------	--------	-------	-----	------------	--------------	------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-15 Date Collected: 05-OCT-2001 18:15  
MW-33S Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
-----------	--------	-------	-----	------------	--------------	------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-16 Date Collected: 05-OCT-2001 18:45  
MW-33M Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-17 Date Collected: 08-OCT-2001 16:45  
MW-104 10/8/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-18 Date Collected: 08-OCT-2001 17:25  
MW-105 10/8/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-19 Date Collected: 08-OCT-2001 17:45  
MW-106 10/8/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-20 Date Collected: 08-OCT-2001 17:05  
MW-43S 10/8/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-21	Date Collected: 08-OCT-2001 16:05
Sample Matrix: MW-107 10/8/01	Date Received : 15-OCT-2001
Sample Matrix: WATER	Date Reported : 22-OCT-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	0.45	mg/l	0.20	30 4500F-BC	1018 10:15 1020 11:30	MA

---

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: L0109596-22	Date Collected: 08-OCT-2001 15:45
Sample Matrix: MW-108 10/8/01	Date Received : 15-OCT-2001
Sample Matrix: WATER	Date Reported : 22-OCT-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP    ANAL	ID
Fluoride	ND	mg/l	0.20	30 4500F-BC	1018 10:15 1020 11:30 MA	

---

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: L0109596-23	Date Collected: 08-OCT-2001 14:00
Sample Matrix: MW-109 10/8/01	Date Received : 15-OCT-2001
Sample Matrix: WATER	Date Reported : 22-OCT-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	4.4	mg/l	0.20	30 4500F-BC	1019 10:20 1020 14:30	MA

---

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: L0109596-24	Date Collected: 08-OCT-2001 14:30
Sample Matrix: MW-110 10/8/01	Date Received : 15-OCT-2001
Sample Matrix: WATER	Date Reported : 22-OCT-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	7.9	mg/l	1.2	30 4500F-BC	1019 10:20 1020 14:30	MA

---

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: L0109596-25 Date Collected: 08-OCT-2001 13:15  
MW-111 10/8/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-26 Date Collected: 08-OCT-2001 13:30  
MW-112 10/8/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-27 Date Collected: 08-OCT-2001 12:25  
MW-113 10/8/01 Date Received : 15-OCT-2001  
Sample Matrix: WATER Date Reported : 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-28 Date Collected: 08-OCT-2001 12:45  
MW-114 10/8/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-29 Date Collected: 08-OCT-2001 12:00  
MW-115 10/8/01 Date Received : 15-OCT-2001  
Sample Matrix: WATER Date Reported : 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-30 Date Collected: 08-OCT-2001 11:50  
MW-116 10/8/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-31 Date Collected: 08-OCT-2001 09:55  
MW-33S 10/8/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
-----------	--------	-------	-----	------------	--------------	------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-32 Date Collected: 08-OCT-2001 10:35  
MW-33M 10/8/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-33 Date Collected: 10-OCT-2001 16:10  
MW-107 10/10/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-34 Date Collected: 10-OCT-2001 15:45  
MW-108 10/10/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-35 Date Collected: 10-OCT-2001 15:10  
MW-111 10/10/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-36 Date Collected: 10-OCT-2001 15:25  
MW-112 10/10/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-37 Date Collected: 10-OCT-2001 14:45  
MW-113 10/10/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-38 Date Collected: 10-OCT-2001 14:20  
MW-114 10/10/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-39 Date Collected: 10-OCT-2001 13:35  
MW-115 10/10/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-40 Date Collected: 10-OCT-2001 14:00  
MW-116 10/10/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-41 Date Collected: 10-OCT-2001 13:05  
MW-33S 10/10/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-42 Date Collected: 12-OCT-2001 14:15  
MW-111 10/12/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-43 Date Collected: 12-OCT-2001 14:00  
MW-112 10/12/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-44	Date Collected: 12-OCT-2001 13:40
Sample Matrix: MW-113 10/12/01	Date Received : 15-OCT-2001
Sample Matrix: WATER	Date Reported : 22-OCT-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	ND	mg/l	0.20	30 4500F-BC	1022 09:10 1022 13:30 MA	

---

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: L0109596-45 Date Collected: 12-OCT-2001 13:20  
MW-114 10/12/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-46 Date Collected: 12-OCT-2001 13:00  
MW-115 10/12/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-47 Date Collected: 12-OCT-2001 12:40  
MW-116 10/12/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-48 Date Collected: 12-OCT-2001 12:15  
MW-33S 10/12/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-49 Date Collected: 14-OCT-2001 16:35  
 MW-111 10/14/01 Date Received: 15-OCT-2001  
 Sample Matrix: WATER Date Reported: 22-OCT-2001  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	ND	mg/l	0.20	30 4500F-BC	1018 10:15	1020 11:30	MA

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: L0109596-50	Date Collected: 14-OCT-2001 16:20
Sample Matrix: MW-112 10/14/01	Date Received : 15-OCT-2001
Sample Matrix: WATER	Date Reported : 22-OCT-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP    ANAL	ID
Fluoride	ND	mg/l	0.20	30 4500F-BC	1018 10:15 1020 11:30 MA	

---

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: L0109596-51 Date Collected: 14-OCT-2001 16:05  
MW-113 10/14/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers:

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109596-52	Date Collected: 14-OCT-2001 15:45
Sample Matrix: MW-114 10/14/01	Date Received : 15-OCT-2001
Sample Matrix: WATER	Date Reported : 22-OCT-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP    ANAL	ID
Fluoride	ND	mg/l	0.20	30 4500F-BC	1018 10:15 1020 11:30 MA	

---

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: L0109596-53	Date Collected: 14-OCT-2001 15:20
Sample Matrix: MW-115 10/14/01	Date Received : 15-OCT-2001
Sample Matrix: WATER	Date Reported : 22-OCT-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	ND	mg/l	0.20	30 4500F-BC	1019 10:20 1020 14:30	MA

---

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: L0109596-54	Date Collected: 14-OCT-2001 15:10
Sample Matrix: MW-116 10/14/01	Date Received : 15-OCT-2001
Sample Matrix: WATER	Date Reported : 22-OCT-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	ND	mg/l	0.20	30 4500F-BC	1019 10:20 1020 14:30 MA	

---

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: L0109596-55 Date Collected: 14-OCT-2001 14:40  
MW-33S 10/14/01 Date Received: 15-OCT-2001  
Sample Matrix: WATER Date Reported: 22-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0109596

---

Parameter	Value 1	Value 2	RPD	Units
Fluoride for sample(s) 21-22, 49-50, 52 (L0109596-49, WG95464)				
Fluoride	ND	ND	NC	mg/l
Fluoride for sample(s) 23-24, 53-54 (L0109596-53, WG95619)				
Fluoride	ND	ND	NC	mg/l
Fluoride for sample(s) 44 (L0109596-44, WG95697)				
Fluoride	ND	ND	NC	mg/l

---

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0109596

---

Parameter	% Recovery
Fluoride LCS for sample(s) 21-22, 49-50, 52 (WG95464)	
Fluoride	86
Fluoride LCS for sample(s) 23-24, 53-54 (WG95619)	
Fluoride	87
Fluoride LCS for sample(s) 44 (WG95697)	
Fluoride	90
Fluoride SPIKE for sample(s) 21-22, 49-50, 52 (L0109596-22, WG95464)	
Fluoride	95
Fluoride SPIKE for sample(s) 23-24, 53-54 (L0109596-54, WG95619)	
Fluoride	62

---

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0109596

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 21-22, 49-50, 52							
Fluoride	ND	mg/l	0.20	30 4500F-BC	1018 10:15	1020 11:30	MA
Blank Analysis for sample(s) 23-24, 53-54							
Fluoride	ND	mg/l	0.20	30 4500F-BC	1019 10:20	1020 14:30	MA
Blank Analysis for sample(s) 44							
Fluoride	ND	mg/l	0.20	30 4500F-BC	1022 09:10	1022 13:30	MA

ALPHA ANALYTICAL LABORATORIES  
ADDENDUM I

---

REFERENCES

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

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 its 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.

## Quality Control Acceptance Criteria

### Volatile Organics by Method 8260B

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
1,2-Dichloroethane-d <sub>4</sub>	75%	125%	75%	125%		
4-Bromofluorobenzene	75%	125%	75%	125%		
Toluene-d <sub>8</sub>	75%	125%	75%	125%		
Dibromofluoromethane	75%	125%	75%	125%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	61%	145%	59%	172%	all target compounds	
Trichloroethene	71%	120%	62%	137%	20%	30%
Chlorobenzene	75%	130%	60%	133%		
Benzene	76%	127%	66%	142%		
Toluene	76%	125%	59%	139%		

### Volatile Organics by Method 8021B

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
4-Bromochlorobenzene	70%	110%	70%	120%		
4-Bromofluorobenzene	70%	110%	70%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	70%	130%	70%	130%	all target compounds	
Trichloroethene	70%	130%	70%	130%	20%	30%
Chlorobenzene	70%	130%	70%	130%		
Benzene	70%	130%	70%	130%		
Toluene	70%	130%	70%	130%		
Ethylbenzene	70%	130%	70%	130%		

### Semi-Volatile Organics by Method 8270C (includes PAHs)

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
Nitrobenzene-d <sub>5</sub>	23%	120%	23%	120%		
Phenol-d <sub>6</sub>	10%	120%	10%	120%		
2-Fluorophenol	21%	120%	25%	120%		
2-Fluorobiphenyl	43%	120%	30%	120%		
p-Terphenyl-d <sub>14</sub>	33%	120%	18%	120%		
2,4,6-Tribromophenol	10%	120%	19%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,2,4-Trichlorobenzene	39%	98%	38%	107%	all target compounds	
Acenaphthene	46%	118%	31%	137%	40%	50%
2,4-Dinitrotoluene	24%	96%	28%	89%		
Pyrene	26%	127%	35%	142%		
N-Nitroso-di-n-propylamine	41%	116%	41%	126%		
1,4-Dichlorobenzene	36%	97%	28%	104%		
Pentachlorophenol	9%	103%	17%	109%		
Phenol	12%	110%	26%	90%		
2-Chlorophenol	27%	123%	25%	102%		
4-Chloro-3-methylphenol	23%	97%	26%	103%		
4-Nitrophenol	10%	80%	11%	114%		

## Quality Control Acceptance Criteria

### PCB/Pesticides by Method 8082/8081

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
2,4,5,6-Tetrachloro-m-xylene	40%	120%	40%	120%		
Decachlorobiphenyl	40%	120%	40%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
Lindane	56%	123%	46%	127%	all target compounds 30%      50%	
Heptachlor	40%	131%	35%	130%		
Aldrin	40%	120%	34%	132%		
Dieldrin	52%	126%	31%	134%		
Endrin	56%	121%	42%	139%		
4,4'-DDT	38%	127%	23%	134%		
Aroclor 1242/1016	40%	140%	40%	140%		
Aroclor 1260	40%	140%	40%	140%		

### Volatile Petroleum Hydrocarbons (VPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
2,5-Dibromotoluene	70%	130%	70%	130%		
laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
all compounds	70%	130%	70%	130%	50%	50%

### Extractable Petroleum Hydrocarbons (EPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
Chloro-octadecane	40%	140%	40%	140%		
ortho-Terphenyl	40%	140%	40%	140%		
2-Fluorobiphenyl (fractionation)	40%	140%	40%	140%		
2-Bromonaphthalene (fractionation)	40%	140%	40%	140%		
laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
all compounds	40%	140%	40%	140%	50%	50%

### TPH (GC-FID) by Method 8100M

surrogate spike % recovery	AQ Limits		Soil Limits		duplicate	
	LCL	UCL	LCL	UCL	AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
ortho-Terphenyl	40%	140%	40%	140%	40%	40%

### TPH by Method 418.1

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
TPH	60%	140%	60%	140%	40%	40%



## Quality Control Acceptance Criteria

### Trace Metals by Method 6010B/7000 series

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
target analyte	75%	125%	70%	140%	20%	35%

### Mercury by Method 7470A/7471A

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
mercury	70%	130%	60%	140%	35%	45%

### Total Cyanide by Method 9010B

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
cyanide	80%	120%	65%	135%	30%	40%

### Total Phenol by Method 9065

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
phenol	70%	130%	65%	135%	20%	30%



# 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 13359

Sheet 2 of 5

Date Due: 1/26/04

Client Name: ERM  
 Client Address: 399 Bayston St Fl 6  
Boston MA 02116  
 Phone #: 617-267-6447 FAX #: 617-267-8377

Project Name: Raytheon-Wayland  
 Project Location: Wayland, MA  
 Project #: 143.60  
 Project Manager: Joe Fiacco

Report To: Joe Fiacco  
 Bill To: \_\_\_\_\_  
 PO#: \_\_\_\_\_

- Standard TAT
- RUSH TAT \_\_\_\_\_ (# days)
- FAX Results
- State Forms
- SMART Report

Comments: (Please note specific method, detection limit or reporting requirements.)  
hold ALL samples EXCEPT MW-107, MW-108

### ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	Flouride									
MW-114	MW	6.5.0	1510	VZ	N	1									
MW-115	MW		1600	VZ	N	1									
MW-116	MW		1620	VZ	N	1									
MW-335	MW		1815	VZ	N	1									
MW-331	MW	↓	1845	VZ	N	1									
MW-104	MW	10.8.0	1645			1									
MW-105			1725			1									
MW-106			1745			1									
MW-435			1705			1									
MW-107	↓	↓	1605	↓	↓	1									
MW-108	↓	↓	1545	↓	↓	1									

Transfers Accepted By:	Date	Time
<i>[Signature]</i>	1/26/04	11:15
<i>[Signature]</i>	1/26/04	11:15
<i>[Signature]</i>	1/26/04	11:15
<i>[Signature]</i>	1/26/04	11:15
<i>[Signature]</i>	1/26/04	11:15
<i>[Signature]</i>	1/26/04	11:15
<i>[Signature]</i>	1/26/04	11:15
<i>[Signature]</i>	1/26/04	11:15
<i>[Signature]</i>	1/26/04	11:15
<i>[Signature]</i>	1/26/04	11:15

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

# of Containers: 11  
 Container Type: \* P  
 Preservative: \* A

# 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 13358

Sheet 3 of 5

Date Due: 10/20/11

Client Name: ERM  
 Client Address: 399 Boylston St 6th Fl  
Boston MA 02116  
 Phone #: 617-267-6447 FAX #: 617-267-8377

Project Name: Raptheon-Wayland  
 Project Location: Wayland, MA  
 Project #: 143.60  
 Project Manager: Joe Fiocco

Report To: Joe Fiocco  
 Bill To: \_\_\_\_\_  
 PO#: \_\_\_\_\_  
 Standard TAT  
 RUSH TAT \_\_\_\_\_  
 (# days)  
 FAX Results  
 State Forms  
 SMART Report

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

hold ALL samples EXCEPT MW-109, MW-110

### ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	Flouride											
MW-109	MW	10.8.11	1400	VZ	N	1											
MW-110	MW	10.8.11	1430			1											
MW-111	MW	10.8.11	1315			1											
MW-112	MW	10.8.11	1330			1											
MW-113	MW	10.8.11	1225			1											
MW-114	MW	10.8.11	1245			1											
MW-115	MW	10.8.11	1200			1											
MW-116	MW	10.8.11	1150			1											
MW-33S	MW	10.8.11	955			1											
MW-33M	MW	10.8.11	1035	↓	↓	1											
MW-107	MW	10.10.11	1610	VZ	N	1											

Time	Date	Transfers Accepted By:	Transfers Relinquished By:
		<u>[Signature]</u>	<u>[Signature]</u>
		<u>[Signature]</u>	<u>[Signature]</u>
		<u>[Signature]</u>	<u>[Signature]</u>
		<u>[Signature]</u>	<u>[Signature]</u>

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

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

# of Containers:	<u>11</u>
Container Type: *	<u>P</u>
Preservative: *	<u>A</u>

# 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 13360

Sheet 4 of 5

Date Due: 10/26/01

Client Name: ERM  
 Client Address: 399 Baylston St Fl 6  
Boston, MA 02116  
 Phone #: 617-267-6447 FAX #: 617-267-8377

Project Name: Raytheon-Wayland  
 Project Location: Wayland, MA  
 Project #: 143.60  
 Project Manager: Joe Fiacco

Report To: Joe Fiacco  
 Bill To:  
 PO#:

- Standard TAT  
 RUSH TAT \_\_\_\_\_  
 (# days)  
 FAX Results  
 State Forms  
 SMART Report

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

hold ALL samples

### ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	Fluoride												
MW-108	MW	10-10-01	1545	VZ	N	1												
MW-111			1510			1												
MW-112			1525			1												
MW-113			1445			1												
MW-114			1420			1												
MW-115			1335			1												
MW-116			1400			1												
MW-335			1305			1												
MW-111		10-12-01	1415			1												
MW-112			1400			1												
MW-113			1340			1												

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

# of Containers: 11  
 Container Type: \* P  
 Preservative: \* A

Transfers Accepted By:	Date	Time
<u>[Signature]</u>	<u>10/26/01</u>	<u>10:00</u>
<u>[Signature]</u>	<u>10/26/01</u>	<u>11:45</u>
<u>[Signature]</u>		
<u>[Signature]</u>		
<u>[Signature]</u>		
<u>[Signature]</u>		
<u>[Signature]</u>		
<u>[Signature]</u>		

# 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 1052

Sheet 5 of 5

Date Rec'd in Lab: 10/15/01

Client Name: ERM  
 Client Address: 399 Baylston St Fl 6  
Boston, MA 02116  
 Phone #: 617-267-6447 FAX #: 617-267-9377

Project Name: Raytheon-Wayland  
 Project Location: Wayland, MA  
 Project #: 143.60  
 Project Manager: Joe Fiacco

Report To: J. Fiacco  
 Bill To: \_\_\_\_\_  
 PO#: \_\_\_\_\_

- Standard TAT
- RUSH TAT \_\_\_\_\_  
(# DAYS)
- FAX Results
- State Forms
- Smart Report

Comments (Please note specific method, detection limit or reporting requirements.)  
hold MW-114, MW-115, MW-116, MW-335 (10.12.01),  
MW-335 (10.14.01)

### ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	Fluoride								
MW-114	MW	10.12.01	1320	VZ	N	1								
MW-115			1300			1								
MW-116			1240			1								
MW-335			1215			1								
MW-111		10.14.01	1635			1								
MW-112			1620			1								
MW-113			1605			1								
MW-114			1545			1								
MW-115			1520			1								
MW-116			540			1								
MW-335			1440			1								

Transfers Accepted By:	Date	Time
<i>[Signature]</i>	10/15/01	11:40
<i>[Signature]</i>		
<i>[Signature]</i>		
<i>[Signature]</i>		
<i>[Signature]</i>		

  

Transfers Relinquished By:	Date	Time
<i>[Signature]</i>		
<i>[Signature]</i>		

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: 11  
 Container Type: \* P  
 Preservative: \* A

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
 Westborough, Massachusetts 01581-1019  
 (508) 898-9220

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65 NY: 11148

CERTIFICATE OF ANALYSIS

Client: ERM-New England	Laboratory Job Number: L0109878
Address: 399 Boylston Street 6th Floor Boston, MA 02116	Invoice Number: 56163
Attn: Mr. Joe Fiacco	Date Received: 23-OCT-01
Project Number: 143.60	Date Reported: 30-OCT-01
Site: RAYTHEON-WAYLAND	Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0109878-01	MW-104	WAYLAND, MA
L0109878-02	MW-105	WAYLAND, MA
L0109878-03	MW-106	WAYLAND, MA
L0109878-04	MW-43S	WAYLAND, MA
L0109878-05	MW-107	WAYLAND, MA
L0109878-06	MW-108	WAYLAND, MA
L0109878-07	MW-109	WAYLAND, MA
L0109878-08	MW-110	WAYLAND, MA
L0109878-09	MW-111	WAYLAND, MA
L0109878-10	MW-112	WAYLAND, MA
L0109878-11	MW-113	WAYLAND, MA
L0109878-12	MW-114	WAYLAND, MA
L0109878-13	MW-115	WAYLAND, MA
L0109878-14	MW-116	WAYLAND, MA
L0109878-15	MW-33S	WAYLAND, MA
L0109878-16	MW-33M	WAYLAND, MA
L0109878-17	MW-111 10/18	WAYLAND, MA
L0109878-18	MW-112 10/18	WAYLAND, MA
L0109878-19	MW-113 10/18	WAYLAND, MA
L0109878-20	MW-114 10/18	WAYLAND, MA
L0109878-21	MW-115 10/18	WAYLAND, MA
L0109878-22	MW-116 10/18	WAYLAND, MA
L0109878-23	MW-33S 10/18	WAYLAND, MA
L0109878-24	MW-111 10/20	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

Scott McLean - Laboratory Director  
 This document electronically signed

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0109878  
 Date Reported: 30-OCT-01

---

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0109878-25	MW-112 10/20	WAYLAND, MA
L0109878-26	MW-113 10/20	WAYLAND, MA
L0109878-27	MW-114 10/20	WAYLAND, MA
L0109878-28	MW-115 10/20	WAYLAND, MA
L0109878-29	MW-116 10/20	WAYLAND, MA
L0109878-30	MW-33S 10/20	WAYLAND, MA
L0109878-31	MW-104 10/22	WAYLAND, MA
L0109878-32	MW-105 10/22	WAYLAND, MA
L0109878-33	MW-106 10/22	WAYLAND, MA
L0109878-34	MW-107 10/22	WAYLAND, MA
L0109878-35	MW-108 10/22	WAYLAND, MA
L0109878-36	MW-109 10/22	WAYLAND, MA
L0109878-37	MW-110 10/22	WAYLAND, MA
L0109878-38	MW-111 10/22	WAYLAND, MA
L0109878-39	MW-112 10/22	WAYLAND, MA
L0109878-40	MW-113 10/22	WAYLAND, MA
L0109878-41	MW-114 10/22	WAYLAND, MA
L0109878-42	MW-115 10/22	WAYLAND, MA
L0109878-43	MW-116 10/22	WAYLAND, MA
L0109878-44	MW-33S 10/22	WAYLAND, MA
L0109878-45	MW-33M 10/22	WAYLAND, MA
L0109878-46	MW-43S 10/22	WAYLAND, MA



ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: L0109878-01 Date Collected: 16-OCT-2001 17:25  
MW-104 Date Received : 23-OCT-2001  
Sample Matrix: WATER Date Reported : 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-02 Date Collected: 16-OCT-2001 17:00  
MW-105 Date Received: 23-OCT-2001  
Sample Matrix: WATER Date Reported: 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-03 Date Collected: 16-OCT-2001 18:00  
MW-106 Date Received : 23-OCT-2001  
Sample Matrix: WATER Date Reported : 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
-----------	--------	-------	-----	------------	--------------	------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-04 Date Collected: 16-OCT-2001 16:30  
MW-43S Date Received: 23-OCT-2001  
Sample Matrix: WATER Date Reported: 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-05	Date Collected: 16-OCT-2001 15:10
Sample Matrix: MW-107	Date Received : 23-OCT-2001
Sample Matrix: WATER	Date Reported : 30-OCT-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP    ANAL	ID
Fluoride	ND	mg/l	0.20	30 4500F-BC	1029 10:40 1030 09:30 MA	

---

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: L0109878-06	Date Collected: 16-OCT-2001 14:55
Sample Matrix: MW-108	Date Received : 23-OCT-2001
Sample Matrix: WATER	Date Reported : 30-OCT-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	ND	mg/l	0.20	30 4500F-BC	1029 10:40 1030 09:30 MA	

---

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: L0109878-07	Date Collected: 16-OCT-2001 15:55
Sample Matrix: MW-109	Date Received : 23-OCT-2001
Sample Matrix: WATER	Date Reported : 30-OCT-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	2.6	mg/l	0.20	30 4500F-BC	1029 10:40 1030 09:30 MA	

---

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: L0109878-08	Date Collected: 16-OCT-2001 15:35
Sample Matrix: MW-110	Date Received : 23-OCT-2001
Sample Matrix: WATER	Date Reported : 30-OCT-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP    ANAL	ID
Fluoride	2.4	mg/l	0.20	30 4500F-BC	1029 10:40 1030 09:30 MA	

---

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: L0109878-09 Date Collected: 16-OCT-2001 14:25  
MW-111 Date Received : 23-OCT-2001  
Sample Matrix: WATER Date Reported : 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-10 Date Collected: 16-OCT-2001 14:10  
MW-112 Date Received : 23-OCT-2001  
Sample Matrix: WATER Date Reported : 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-11 Date Collected: 16-OCT-2001 13:50  
MW-113 Date Received : 23-OCT-2001  
Sample Matrix: WATER Date Reported : 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-12 Date Collected: 16-OCT-2001 13:35  
MW-114 Date Received: 23-OCT-2001  
Sample Matrix: WATER Date Reported: 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-13 Date Collected: 16-OCT-2001 12:05  
MW-115 Date Received : 23-OCT-2001  
Sample Matrix: WATER Date Reported : 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
-----------	--------	-------	-----	------------	--------------	------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-14 Date Collected: 16-OCT-2001 11:50  
MW-116 Date Received: 23-OCT-2001  
Sample Matrix: WATER Date Reported: 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-15 Date Collected: 16-OCT-2001 11:05  
MW-33S Date Received: 23-OCT-2001  
Sample Matrix: WATER Date Reported: 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-16 Date Collected: 16-OCT-2001 11:25  
MW-33M Date Received : 23-OCT-2001  
Sample Matrix: WATER Date Reported : 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-17 Date Collected: 18-OCT-2001 14:25  
MW-111 10/18 Date Received : 23-OCT-2001  
Sample Matrix: WATER Date Reported : 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-18 Date Collected: 18-OCT-2001 14:10  
MW-112 10/18 Date Received : 23-OCT-2001  
Sample Matrix: WATER Date Reported : 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-19 Date Collected: 18-OCT-2001 13:50  
MW-113 10/18 Date Received : 23-OCT-2001  
Sample Matrix: WATER Date Reported : 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-20 Date Collected: 18-OCT-2001 13:30  
MW-114 10/18 Date Received : 23-OCT-2001  
Sample Matrix: WATER Date Reported : 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-21 Date Collected: 18-OCT-2001 11:55  
MW-115 10/18 Date Received : 23-OCT-2001  
Sample Matrix: WATER Date Reported : 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
-----------	--------	-------	-----	------------	--------------	------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-22 Date Collected: 18-OCT-2001 11:35  
MW-116 10/18 Date Received: 23-OCT-2001  
Sample Matrix: WATER Date Reported: 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-23 Date Collected: 18-OCT-2001 11:05  
MW-33S 10/18 Date Received : 23-OCT-2001  
Sample Matrix: WATER Date Reported : 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-24 Date Collected: 20-OCT-2001 12:50  
MW-111 10/20 Date Received: 23-OCT-2001  
Sample Matrix: WATER Date Reported: 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-25 Date Collected: 20-OCT-2001 13:00  
MW-112 10/20 Date Received : 23-OCT-2001  
Sample Matrix: WATER Date Reported : 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-26 Date Collected: 20-OCT-2001 12:30  
MW-113 10/20 Date Received: 23-OCT-2001  
Sample Matrix: WATER Date Reported: 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-27 Date Collected: 20-OCT-2001 12:40  
MW-114 10/20 Date Received: 23-OCT-2001  
Sample Matrix: WATER Date Reported: 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-28 Date Collected: 20-OCT-2001 11:55  
MW-115 10/20 Date Received : 23-OCT-2001  
Sample Matrix: WATER Date Reported : 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-29 Date Collected: 20-OCT-2001 12:05  
MW-116 10/20 Date Received: 23-OCT-2001  
Sample Matrix: WATER Date Reported: 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-30 Date Collected: 20-OCT-2001 13:15  
MW-33S 10/20 Date Received: 23-OCT-2001  
Sample Matrix: WATER Date Reported: 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-31 Date Collected: 22-OCT-2001 16:30  
MW-104 10/22 Date Received: 23-OCT-2001  
Sample Matrix: WATER Date Reported: 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-32 Date Collected: 22-OCT-2001 16:05  
MW-105 10/22 Date Received : 23-OCT-2001  
Sample Matrix: WATER Date Reported : 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-33 Date Collected: 22-OCT-2001 15:35  
MW-106 10/22 Date Received : 23-OCT-2001  
Sample Matrix: WATER Date Reported : 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-34 Date Collected: 22-OCT-2001 14:55  
MW-107 10/22 Date Received: 23-OCT-2001  
Sample Matrix: WATER Date Reported: 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-35 Date Collected: 22-OCT-2001 14:30  
MW-108 10/22 Date Received: 23-OCT-2001  
Sample Matrix: WATER Date Reported: 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-36 Date Collected: 22-OCT-2001 14:10  
MW-109 10/22 Date Received : 23-OCT-2001  
Sample Matrix: WATER Date Reported : 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-37 Date Collected: 22-OCT-2001 13:55  
MW-110 10/22 Date Received: 23-OCT-2001  
Sample Matrix: WATER Date Reported: 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-38 Date Collected: 22-OCT-2001 13:00  
MW-111 10/22 Date Received : 23-OCT-2001  
Sample Matrix: WATER Date Reported : 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-39 Date Collected: 22-OCT-2001 12:45  
MW-112 10/22 Date Received: 23-OCT-2001  
Sample Matrix: WATER Date Reported: 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-40 Date Collected: 22-OCT-2001 12:25  
MW-113 10/22 Date Received : 23-OCT-2001  
Sample Matrix: WATER Date Reported : 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-41 Date Collected: 22-OCT-2001 12:10  
MW-114 10/22 Date Received: 23-OCT-2001  
Sample Matrix: WATER Date Reported: 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-42 Date Collected: 22-OCT-2001 11:50  
MW-115 10/22 Date Received: 23-OCT-2001  
Sample Matrix: WATER Date Reported: 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-43 Date Collected: 22-OCT-2001 11:25  
MW-116 10/22 Date Received : 23-OCT-2001  
Sample Matrix: WATER Date Reported : 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-44 Date Collected: 22-OCT-2001 10:50  
MW-33S 10/22 Date Received: 23-OCT-2001  
Sample Matrix: WATER Date Reported: 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-45 Date Collected: 22-OCT-2001 11:05  
MW-33M 10/22 Date Received : 23-OCT-2001  
Sample Matrix: WATER Date Reported : 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0109878-46 Date Collected: 22-OCT-2001 17:00  
MW-43S 10/22 Date Received : 23-OCT-2001  
Sample Matrix: WATER Date Reported : 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0109878

---

Parameter	Value 1	Value 2	RPD	Units
Fluoride for sample(s) 05-08 (L0109878-07, WG96304)				
Fluoride	2.6	2.7	4	mg/l

---

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0109878

---

Parameter	% Recovery
Fluoride LCS for sample(s) 05-08 (WG96304)	
Fluoride	86
Fluoride SPIKE for sample(s) 05-08 (L0109878-06, WG96304)	
Fluoride	83

---



ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0109878

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 05-08							
Fluoride	ND	mg/l	0.20	30 4500F-BC	1029 10:40	1030 09:30	MA

ALPHA ANALYTICAL LABORATORIES  
ADDENDUM I

---

REFERENCES

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

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 its 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

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65 NY: 11148

CERTIFICATE OF ANALYSIS

Client: ERM-New England Laboratory Job Number: L0110016  
Address: 399 Boylston Street Invoice Number: 56149  
6th Floor  
Boston, MA 02116 Date Received: 25-OCT-01  
Attn: Mr. Joe Fiacco Date Reported: 30-OCT-01  
Project Number: 143.60 Delivery Method: Alpha  
Site: RAYTHEON - WAYLAND

---

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0110016-01	MW-33S	WAYLAND , MA
L0110016-02	MW-116	WAYLAND , MA
L0110016-03	MW-115	WAYLAND , MA
L0110016-04	MW-114	WAYLAND , MA
L0110016-05	MW-113	WAYLAND , MA
L0110016-06	MW-112	WAYLAND , MA
L0110016-07	MW-111	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

Scott McLean - Laboratory Director  
This document electronically signed

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: L0110016-01 Date Collected: 24-OCT-2001 10:30  
MW-33S Date Received: 25-OCT-2001  
Sample Matrix: WATER Date Reported: 30-OCT-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
-----------	--------	-------	-----	------------	--------------	--------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0110016-02	Date Collected: 24-OCT-2001 11:00
Sample Matrix: MW-116	Date Received : 25-OCT-2001
Sample Matrix: WATER	Date Reported : 30-OCT-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	ND	mg/l	0.20	30 4500F-BC	1026 11:10 1029 15:30	MA

---

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: L0110016-03 Date Collected: 24-OCT-2001 11:15  
 MW-115 Date Received: 25-OCT-2001  
 Sample Matrix: WATER Date Reported: 30-OCT-2001  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	ND	mg/l	0.20	30 4500F-BC	1026 11:10	1029 15:30	MA

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: L0110016-04	Date Collected: 24-OCT-2001 11:40
	Date Received : 25-OCT-2001
Sample Matrix: MW-114 WATER	Date Reported : 30-OCT-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	ND	mg/l	0.20	30 4500F-BC	1026 11:10 1029 15:30 MA	

---

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: L0110016-05 Date Collected: 24-OCT-2001 12:00  
 MW-113 Date Received : 25-OCT-2001  
 Sample Matrix: WATER Date Reported : 30-OCT-2001  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	ND	mg/l	0.20	30 4500F-BC	1026 11:10	1029 15:30	MA

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: L0110016-06	Date Collected: 24-OCT-2001 12:20
Sample Matrix: MW-112	Date Received : 25-OCT-2001
Sample Matrix: WATER	Date Reported : 30-OCT-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	ND	mg/l	0.20	30 4500F-BC	1026 11:10 1029 15:30 MA	

---

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: L0110016-07	Date Collected: 24-OCT-2001 12:35
Sample Matrix: MW-111	Date Received : 25-OCT-2001
Sample Matrix: WATER	Date Reported : 30-OCT-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP    ANAL	ID
Fluoride	ND	mg/l	0.20	30 4500F-BC	1026 11:10 1029 15:30 MA	

---

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

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0110016

---

Parameter	Value 1	Value 2	RPD	Units
Fluoride	ND	ND	NC	mg/l

---

Fluoride for sample(s) 02-07 (L0110016-07, WG96177)

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0110016

---

Parameter	% Recovery
Fluoride LCS for sample(s) 02-07 (WG96177)	
Fluoride	96
Fluoride SPIKE for sample(s) 02-07 (L0110016-03, WG96177)	
Fluoride	86

---

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0110016

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 02-07							
Fluoride	ND	mg/l	0.20	30 4500F-BC	1026 11:10	1029 15:30	MA

ALPHA ANALYTICAL LABORATORIES  
ADDENDUM I

---

REFERENCES

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

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 its 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 1061

Sheet 1 of 1

Date Rec'd in Lab: 10/25

Client Name: ERM  
 Client Address: 399 Baylston St Fl 6  
Boston, MA 02116  
 Phone #: 617 267 8377 FAX #: 617 267 6447

Project Name: Raytheon-Wayland  
 Project Location: Wayland, MA  
 Project #: 143.60  
 Project Manager: Joe Fiacco

Report To: Joe Fiacco  
 Bill To: \_\_\_\_\_  
 PO#: \_\_\_\_\_

- Standard TAT
- RUSH TAT 3 (\* DAYS)
- FAX Results
- State Forms
- Smart Report

Comments (Please note specific method, detection limit or reporting requirements.)  
HOLD MW-335 (10.24.01)

### ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	Fluoride												
MW-335	MW	10.24.01	1030	VZ	N	K												
MW-116			1100															
MW-115			1115															
MW-114			1140															
MW-113			1200															
MW-112			1220															
MW-111			1235															

Transfers Accepted By:	Date	Time
<i>[Signature]</i>	10/25/01	19:4
<i>[Signature]</i>		
<i>[Signature]</i>		
<i>[Signature]</i>		

  

Transfers Relinquished By:
<i>[Signature]</i>
<i>[Signature]</i>

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: 7  
 Container Type: \* P  
 Preservative: \* A

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65 NY: 11148

CERTIFICATE OF ANALYSIS

Client: ERM-New England Laboratory Job Number: L0110393  
Address: 399 Boylston Street Invoice Number: 56636  
6th Floor  
Boston, MA 02116 Date Received: 06-NOV-01  
Attn: Mr. Joe Fiacco Date Reported: 12-NOV-01  
Project Number: 143.60 Delivery Method: Alpha  
Site: RAYTHEON

---

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0110393-01	MW-116	WAYLAND, MA
L0110393-02	MW-115	WAYLAND, MA
L0110393-03	MW-114	WAYLAND, MA
L0110393-04	MW-113	WAYLAND, MA
L0110393-05	MW-112	WAYLAND, MA
L0110393-06	MW-111	WAYLAND, MA
L0110393-07	MW-110	WAYLAND, MA
L0110393-08	MW-109	WAYLAND, MA
L0110393-09	MW-108	WAYLAND, MA
L0110393-10	MW-107	WAYLAND, MA
L0110393-11	MW-33S	WAYLAND, MA
L0110393-12	MW-33M	WAYLAND, MA
L0110393-13	MW-33S	WAYLAND, MA
L0110393-14	MW-116	WAYLAND, MA
L0110393-15	MW-115	WAYLAND, MA
L0110393-16	MW-114	WAYLAND, MA
L0110393-17	MW-113	WAYLAND, MA
L0110393-18	MW-112	WAYLAND, MA
L0110393-19	MW-111	WAYLAND, MA
L0110393-20	MW-108	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

Scott McLean - Laboratory Director  
This document electronically signed



ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: L0110393-01	Date Collected: 05-NOV-2001 11:05
Sample Matrix: MW-116	Date Received : 06-NOV-2001
Sample Matrix: WATER	Date Reported : 12-NOV-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP    ANAL	ID
Fluoride	ND	mg/l	0.20	30 4500F-BC	1108 09:45 1109 15:15 MA	

---

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: L0110393-02	Date Collected: 05-NOV-2001 11:20
Sample Matrix: MW-115	Date Received : 06-NOV-2001
Sample Matrix: WATER	Date Reported : 12-NOV-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	ND	mg/l	0.20	30 4500F-BC	1108 09:45 1109 15:15 MA	

---

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: L0110393-03	Date Collected: 05-NOV-2001 11:35
Sample Matrix: MW-114	Date Received : 06-NOV-2001
Sample Matrix: WATER	Date Reported : 12-NOV-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP    ANAL	ID
Fluoride	ND	mg/l	0.20	30 4500F-BC	1108 09:45 1109 15:15 MA	

---

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: L0110393-04	Date Collected: 05-NOV-2001 12:00
Sample Matrix: MW-113	Date Received : 06-NOV-2001
Sample Matrix: WATER	Date Reported : 12-NOV-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP    ANAL	ID
Fluoride	ND	mg/l	0.20	30 4500F-BC	1108 09:45 1109 15:15 MA	

---

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: L0110393-05	Date Collected: 05-NOV-2001 12:15
	Date Received : 06-NOV-2001
Sample Matrix: MW-112 WATER	Date Reported : 12-NOV-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	ND	mg/l	0.20	30 4500F-BC	1108 09:45 1109 15:15 MA	

---

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: L0110393-06 Date Collected: 05-NOV-2001 12:30  
 MW-111 Date Received: 06-NOV-2001  
 Sample Matrix: WATER Date Reported: 12-NOV-2001  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	ND	mg/l	0.20	30 4500F-BC	1108 09:45	1109 15:15	MA

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: L0110393-07	Date Collected: 05-NOV-2001 12:55
Sample Matrix: MW-110	Date Received : 06-NOV-2001
Sample Matrix: WATER	Date Reported : 12-NOV-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP    ANAL	ID
Fluoride	0.66	mg/l	0.20	30 4500F-BC	1109 09:50 1110 11:00 MA	

---

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: L0110393-08	Date Collected: 05-NOV-2001 13:15
Sample Matrix: MW-109	Date Received : 06-NOV-2001
Sample Matrix: WATER	Date Reported : 12-NOV-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	2.2	mg/l	0.20	30 4500F-BC	1109 09:50 1110 11:00 MA	

---

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: L0110393-09	Date Collected: 05-NOV-2001 13:35
Sample Matrix: MW-108	Date Received : 06-NOV-2001
Sample Matrix: WATER	Date Reported : 12-NOV-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP    ANAL	ID
Fluoride	ND	mg/l	0.20	30 4500F-BC	1109 09:50 1110 11:00 MA	

---

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: L0110393-10	Date Collected: 05-NOV-2001 13:55
	Date Received : 06-NOV-2001
Sample Matrix: MW-107 WATER	Date Reported : 12-NOV-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	0.62	mg/l	0.20	30 4500F-BC	1109 09:50 1110 11:00 MA	

---

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: L0110393-11 Date Collected: 05-NOV-2001 10:30  
 MW-33S Date Received: 06-NOV-2001  
 Sample Matrix: WATER Date Reported: 12-NOV-2001  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	ND	mg/l	0.20	30 4500F-BC	1109 09:50	1110 11:00	MA

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: L0110393-12	Date Collected: 05-NOV-2001 10:45
Sample Matrix: MW-33M	Date Received : 06-NOV-2001
Sample Matrix: WATER	Date Reported : 12-NOV-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	ND	mg/l	0.20	30 4500F-BC	1109 09:50 1110 11:00 MA	

---

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: L0110393-13 Date Collected: 01-NOV-2001 07:55  
MW-33S Date Received: 06-NOV-2001  
Sample Matrix: WATER Date Reported: 12-NOV-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0110393-14 Date Collected: 01-NOV-2001 08:15  
MW-116 Date Received: 06-NOV-2001  
Sample Matrix: WATER Date Reported: 12-NOV-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0110393-15 Date Collected: 01-NOV-2001 08:35  
MW-115 Date Received: 06-NOV-2001  
Sample Matrix: WATER Date Reported: 12-NOV-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0110393-16  
MW-114  
Sample Matrix: WATER

Date Collected: 01-NOV-2001 08:50  
Date Received : 06-NOV-2001  
Date Reported : 12-NOV-2001

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0110393-17 Date Collected: 01-NOV-2001 09:20  
MW-113 Date Received: 06-NOV-2001  
Sample Matrix: WATER Date Reported: 12-NOV-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0110393-18 Date Collected: 01-NOV-2001 09:45  
MW-112 Date Received: 06-NOV-2001  
Sample Matrix: WATER Date Reported: 12-NOV-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0110393-19 Date Collected: 01-NOV-2001 09:55  
MW-111 Date Received : 06-NOV-2001  
Sample Matrix: WATER Date Reported : 12-NOV-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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: L0110393-20 Date Collected: 30-OCT-2001 13:50  
MW-108 Date Received : 06-NOV-2001  
Sample Matrix: WATER Date Reported : 12-NOV-2001  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 1-Plastic

---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

---

\*\*\*\*\* THIS SAMPLE IS ON HOLD \*\*\*\*\*

---

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

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0110393

---

Parameter	Value 1	Value 2	RPD	Units
Fluoride for sample(s) 01-06 (L0110393-06, WG97241)				
Fluoride	ND	ND	NC	mg/l
Fluoride for sample(s) 07-12 (L0110393-11, WG97395)				
Fluoride	ND	ND	NC	mg/l

---

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0110393

---

Parameter	% Recovery
Fluoride LCS for sample(s) 01-06 (WG97241)	
Fluoride	86
Fluoride LCS for sample(s) 07-12 (WG97395)	
Fluoride	88
Fluoride SPIKE for sample(s) 01-06 (L0110393-01, WG97241)	
Fluoride	91
Fluoride SPIKE for sample(s) 07-12 (L0110393-09, WG97395)	
Fluoride	91

---

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0110393

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-06							
Fluoride	ND	mg/l	0.20	30 4500F-BC	1108 09:45	1109 15:15	MA
Blank Analysis for sample(s) 07-12							
Fluoride	ND	mg/l	0.20	30 4500F-BC	1109 09:50	1110 11:00	MA

ALPHA ANALYTICAL LABORATORIES  
ADDENDUM I

---

REFERENCES

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

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 its 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 1072

Sheet 1 of 2

Date Rec'd in Lab:

11/6/01

Client Name: ERM  
 Client Address: 399 Baylston St Fl 6  
Boston, MA 02116  
 Phone #: 617 267 8377 FAX #: 617 267

Project Name: Ryantheon  
 Project Location: Wayland, MA  
 Project #: 43.60  
 Project Manager: Joe Fiacco

Report To: Joe Fiacco  
 Bill To: \_\_\_\_\_  
 PO#: \_\_\_\_\_

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

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

Process ALL samples.

### ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	Fluoride
<del>MW-116</del>	MW	11-5-01	1105	VZ	N	1
<del>MW-115</del>			1120			1
<del>MW-114</del>			1135			1
<del>MW-113</del>			1200			1
<del>MW-112</del>			1215			1
<del>MW-111</del>			1230			1
<del>MW-110</del>			1255			1
<del>MW-109</del>						1
<del>MW-108</del>						1
<del>MW-107</del>						1
<del>MW-335</del>						1

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: \*

Transfers Accepted By:	Date	Time
<i>[Signature]</i>	11/6/01	15:00
<i>[Signature]</i>	11/6/01	15:00

Transfers Relinquished By:
<i>[Signature]</i>

# 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 1073

Sheet 2 of 2

Date Rec'd in Lab:

11/6/01

Client Name: ERM  
 Client Address: 399 Baylston Flg  
Boston MA 02116  
 Phone #: 617-267-8377 FAX #: 617-267

Project Name: Raytheon  
 Project Location: Wayland, MA  
 Project #: 143.60  
 Project Manager: Joe Fracco

Report To: Joe Fracco  
 Bill To: \_\_\_\_\_  
 PO#: \_\_\_\_\_

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

Comments (Please note specific method, detection limit or reporting requirements.)  
Process ONLY MW-33M 11.5.01  
HOLD all others.

### ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	Fluoride												
MW-33M	MW	11-5-01	1045	VZ	N	1												
MW-33S		11-1-01	755			1												
MW-116			815			1												
MW-115			835			1												
MW-114			850			1												
MW-113			920			1												
MW-112			945			1												
MW-111			955			1												
MW-108		10-30-01	1350			1												

Transfers Accepted By:	Date	Time
<i>[Signature]</i>	11/6/01	15:00
<i>[Signature]</i>	11/6/01	15:00
<i>[Signature]</i>		
<i>[Signature]</i>		

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: 9  
 Container Type: \* P  
 Preservative: \* A

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65 NY: 11148

CERTIFICATE OF ANALYSIS

Client: ERM-New England Laboratory Job Number: L0110680  
Address: 399 Boylston Street Invoice Number: 56981  
6th Floor  
Boston, MA 02116 Date Received: 13-NOV-01  
Attn: Mr. Joe Fiacco Date Reported: 20-NOV-01  
Project Number: 143.56 Delivery Method: Alpha  
Site: RAYTHEON

---

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0110680-01	MW-33S	WAYLAND, MA
L0110680-02	MW-33M	WAYLAND, MA
L0110680-03	MW-116	WAYLAND, MA
L0110680-04	MW-115	WAYLAND, MA
L0110680-05	MW-114	WAYLAND, MA
L0110680-06	MW-113	WAYLAND, MA
L0110680-07	MW-112	WAYLAND, MA
L0110680-08	MW-111	WAYLAND, MA
L0110680-09	MW-110	WAYLAND, MA
L0110680-10	MW-109	WAYLAND, MA
L0110680-11	MW-108	WAYLAND, MA
L0110680-12	MW-107	WAYLAND, MA
L0110680-13	DUP -1	WAYLAND, MA
L0110680-14	TRIP BLANK	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

Scott McLean - Laboratory Director  
This document electronically signed

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: L0110680-01 Date Collected: 12-NOV-2001 11:25  
 MW-33S Date Received: 13-NOV-2001  
 Sample Matrix: WATER Date Reported: 20-NOV-2001  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 1-Plastic, 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	ND	mg/l	0.20	30 4500F-BC	1115 12:05	1117 14:30	SU
Volatile Organics by GC 8021				1 8021B	1115 13:37 MM		
Bromochloromethane	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.5				
Carbon tetrachloride	ND	ug/l	2.5				
Chlorobenzene	ND	ug/l	2.5				
Dibromochloromethane	ND	ug/l	25.				
Bromomethane/Chloroethane	ND	ug/l	25.				
Chloroform	ND	ug/l	2.5				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Dichlorodifluoromethane	ND	ug/l	25.				
1,1-Dichloroethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	2.5				
1,1-Dichloroethene	ND	ug/l	2.5				
cis-1,2-Dichloroethene	ND	ug/l	2.5				
trans-1,2-Dichloroethene	ND	ug/l	2.5				
1,2-Dichloropropane	ND	ug/l	2.5				
cis-1,3-Dichloropropene	ND	ug/l	2.5				
trans-1,3-Dichloropropene	ND	ug/l	2.5				
Methylene chloride	ND	ug/l	25.				
1,1,2,2-Tetrachloroethane	ND	ug/l	2.5				
Tetrachloroethene	ND	ug/l	2.5				
1,1,1-Trichloroethane	120	ug/l	2.5				
1,1,2-Trichloroethane	ND	ug/l	2.5				
Trichloroethene	380	ug/l	2.5				
Trichlorofluoromethane	ND	ug/l	2.5				
2-Chloroethyl vinyl ether	ND	ug/l	25.				
Chloromethane	ND	ug/l	25.				
Vinyl Chloride	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene 109. %

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: L0110680-02 Date Collected: 12-NOV-2001 13:40  
 MW-33M Date Received: 13-NOV-2001  
 Sample Matrix: WATER Date Reported: 20-NOV-2001  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 1-Plastic, 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	ND	mg/l	0.20	30 4500F-BC	1115 12:05	1117 14:30	SU
Volatile Organics by GC 8021				1 8021B	1114 19:31 MM		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromodichloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	0.97	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	8.6	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Chloromethane	ND	ug/l	5.0				
Vinyl Chloride	ND	ug/l	2.0				

Surrogate Recovery

4-Bromochlorobenzene 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: L0110680-03	Date Collected: 12-NOV-2001 14:20
Sample Matrix: MW-116	Date Received: 13-NOV-2001
Sample Matrix: WATER	Date Reported: 20-NOV-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic, 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	ND	mg/l	0.20	30 4500F-BC	1115 12:05	1117 14:30	SU
Volatile Organics by GC 8021				1 8021B	1116 14:58 MM		
Bromodichloromethane	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.5				
Carbon tetrachloride	ND	ug/l	2.5				
Chlorobenzene	ND	ug/l	2.5				
Dibromodichloromethane	ND	ug/l	25.				
Bromomethane/Chloroethane	ND	ug/l	25.				
Chloroform	ND	ug/l	2.5				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Dichlorodifluoromethane	ND	ug/l	25.				
1,1-Dichloroethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	2.5				
1,1-Dichloroethene	ND	ug/l	2.5				
cis-1,2-Dichloroethene	ND	ug/l	2.5				
trans-1,2-Dichloroethene	ND	ug/l	2.5				
1,2-Dichloropropane	ND	ug/l	2.5				
cis-1,3-Dichloropropene	ND	ug/l	2.5				
trans-1,3-Dichloropropene	ND	ug/l	2.5				
Methylene chloride	ND	ug/l	25.				
1,1,2,2-Tetrachloroethane	ND	ug/l	2.5				
Tetrachloroethene	ND	ug/l	2.5				
1,1,1-Trichloroethane	44.	ug/l	2.5				
1,1,2-Trichloroethane	ND	ug/l	2.5				
Trichloroethene	130	ug/l	2.5				
Trichlorofluoromethane	ND	ug/l	2.5				
2-Chloroethyl vinyl ether	ND	ug/l	25.				
Chloromethane	ND	ug/l	25.				
Vinyl Chloride	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene	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: L0110680-04 Date Collected: 12-NOV-2001 15:20  
 MW-115 Date Received: 13-NOV-2001  
 Sample Matrix: WATER Date Reported: 20-NOV-2001  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 1-Plastic, 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	ND	mg/l	0.20	30 4500F-BC	1115 12:05	1117 14:30	SU
Volatile Organics by GC 8021				1 8021B	1119 18:27 MM		
Bromochloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	17.	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	60.	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Chloromethane	ND	ug/l	10.				
Vinyl Chloride	ND	ug/l	4.0				

Surrogate Recovery

4-Bromochlorobenzene 80.0 %

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: L0110680-05 Date Collected: 12-NOV-2001 16:15  
 MW-114 Date Received: 13-NOV-2001  
 Sample Matrix: WATER Date Reported: 20-NOV-2001  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 1-Plastic, 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	ND	mg/l	0.20	30 4500F-BC	1115 12:05	1117 14:30	SU
Volatile Organics by GC 8021				1 8021B	1114 22:08 MM		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	8.4	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	24.	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Chloromethane	ND	ug/l	5.0				
Vinyl Chloride	ND	ug/l	2.0				

Surrogate Recovery

4-Bromochlorobenzene 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: L0110680-06	Date Collected: 12-NOV-2001 17:10
	Date Received: 13-NOV-2001
Sample Matrix: MW-113 WATER	Date Reported: 20-NOV-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic, 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	ND	mg/l	0.20	30 4500F-BC	1115 12:05	1117 14:30	SU
Volatile Organics by GC 8021				1 8021B	1114 23:00 MM		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromodichloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	0.88	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	0.55	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	14.	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Chloromethane	ND	ug/l	5.0				
Vinyl Chloride	ND	ug/l	2.0				

Surrogate Recovery

4-Bromochlorobenzene	96.0	%
----------------------	------	---

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: L0110680-07	Date Collected: 13-NOV-2001 08:40
	Date Received : 13-NOV-2001
Sample Matrix: MW-112 WATER	Date Reported : 20-NOV-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic, 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	ND	mg/l	0.20	30 4500F-BC	1115 12:05	1117 14:30	SU
Volatile Organics by GC 8021				1 8021B	1115 14:30		MM
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromodichloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	15.	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	47.	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Chloromethane	ND	ug/l	5.0				
Vinyl Chloride	ND	ug/l	2.0				

Surrogate Recovery

4-Bromochlorobenzene	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: L0110680-08 Date Collected: 13-NOV-2001 10:10  
 MW-111 Date Received: 13-NOV-2001  
 Sample Matrix: WATER Date Reported: 20-NOV-2001  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 1-Plastic, 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	ND	mg/l	0.20	30 4500F-BC	1117 10:00	1117 14:30	SU
Volatile Organics by GC 8021				1 8021B	1115 15:22 MM		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	2.0	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	9.3	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Chloromethane	ND	ug/l	5.0				
Vinyl Chloride	ND	ug/l	2.0				

Surrogate Recovery

4-Bromochlorobenzene 95.0 %

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: L0110680-09 Date Collected: 13-NOV-2001 11:15  
 MW-110 Date Received: 13-NOV-2001  
 Sample Matrix: WATER Date Reported: 20-NOV-2001  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 1-Plastic, 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	0.43	mg/l	0.20	30 4500F-BC	1117 10:00	1117 14:30	SU
Volatile Organics by GC 8021				1 8021B	1115 02:30 MM		
Bromochloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Tri chloroethane	ND	ug/l	0.50				
1,1,2-Tri chloroethane	ND	ug/l	0.50				
Tri chloroethene	ND	ug/l	0.50				
Tri chlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Chloromethane	ND	ug/l	5.0				
Vinyl Chloride	ND	ug/l	2.0				

Surrogate Recovery

4-Bromochlorobenzene 84.0 %

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: L0110680-10	Date Collected: 13-NOV-2001 12: 20
Sample Matrix: MW-109	Date Received : 13-NOV-2001
Sample Matrix: WATER	Date Reported : 20-NOV-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic, 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	0.45	mg/l	0.20	30 4500F-BC	1119 11:40 1119 15:45	MA
Volatile Organics by GC 8021				1 8021B	1115 17:07 MM	
Bromodichloromethane	ND	ug/l	0.50			
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Dibromodichloromethane	ND	ug/l	5.0			
Bromomethane/Chloroethane	ND	ug/l	5.0			
Chloroform	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	0.50			
1,3-Dichlorobenzene	ND	ug/l	0.50			
1,4-Dichlorobenzene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1-Dichloroethene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	2.0	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	26.	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	0.50			
2-Chloroethyl vinyl ether	ND	ug/l	5.0			
Chloromethane	ND	ug/l	5.0			
Vinyl Chloride	ND	ug/l	2.0			

Surrogate Recovery

4-Bromochlorobenzene	89.0	%
----------------------	------	---

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: L0110680-11 Date Collected: 13-NOV-2001 13:35  
 MW-108 Date Received: 13-NOV-2001  
 Sample Matrix: WATER Date Reported: 20-NOV-2001  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 1-Plastic, 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	ND	mg/l	0.20	30 4500F-BC	1119 11:40	1119 15:45	MA
Volatile Organics by GC 8021				1 8021B	1115 18:00 MM		
Bromochloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Tri chloroethane	ND	ug/l	0.50				
1,1,2-Tri chloroethane	ND	ug/l	0.50				
Tri chloroethene	3.7	ug/l	0.50				
Tri chlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Chloromethane	ND	ug/l	5.0				
Vinyl Chloride	ND	ug/l	2.0				

Surrogate Recovery

4-Bromochlorobenzene 89.0 %

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: L0110680-12	Date Collected: 13-NOV-2001 14:50
Sample Matrix: MW-107	Date Received: 13-NOV-2001
Sample Matrix: WATER	Date Reported: 20-NOV-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Plastic, 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	0.36	mg/l	0.20	30 4500F-BC	1119 11:40 1119 15:45	MA
Volatile Organics by GC 8021				1 8021B	1115 18:52 MM	
Bromodichloromethane	ND	ug/l	0.50			
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Dibromodichloromethane	ND	ug/l	5.0			
Bromomethane/Chloroethane	ND	ug/l	5.0			
Chloroform	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	0.50			
1,3-Dichlorobenzene	ND	ug/l	0.50			
1,4-Dichlorobenzene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1-Dichloroethene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	3.4	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	65.	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	0.50			
2-Chloroethyl vinyl ether	ND	ug/l	5.0			
Chloromethane	ND	ug/l	5.0			
Vinyl Chloride	ND	ug/l	2.0			

Surrogate Recovery

4-Bromochlorobenzene	81.0	%
----------------------	------	---

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: L0110680-13 Date Collected: 13-NOV-2001 08:00  
 DUP -1 Date Received: 13-NOV-2001  
 Sample Matrix: WATER Date Reported: 20-NOV-2001  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 1-Plastic, 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	ND	mg/l	0.20	30 4500F-BC	1116 09:00	1116 10:45	MA
Volatile Organics by GC 8021				1 8021B	1115 16:15 MM		
Bromodichloromethane	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.5				
Carbon tetrachloride	ND	ug/l	2.5				
Chlorobenzene	ND	ug/l	2.5				
Dibromodichloromethane	ND	ug/l	25.				
Bromomethane/Chloroethane	ND	ug/l	25.				
Chloroform	ND	ug/l	2.5				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Dichlorodifluoromethane	ND	ug/l	25.				
1,1-Dichloroethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	2.5				
1,1-Dichloroethene	ND	ug/l	2.5				
cis-1,2-Dichloroethene	ND	ug/l	2.5				
trans-1,2-Dichloroethene	ND	ug/l	2.5				
1,2-Dichloropropane	ND	ug/l	2.5				
cis-1,3-Dichloropropene	ND	ug/l	2.5				
trans-1,3-Dichloropropene	ND	ug/l	2.5				
Methylene chloride	ND	ug/l	25.				
1,1,2,2-Tetrachloroethane	ND	ug/l	2.5				
Tetrachloroethene	ND	ug/l	2.5				
1,1,1-Tri chloroethane	39.	ug/l	2.5				
1,1,2-Tri chloroethane	ND	ug/l	2.5				
Tri chloroethene	120	ug/l	2.5				
Tri chlorofluoromethane	ND	ug/l	2.5				
2-Chloroethyl vinyl ether	ND	ug/l	25.				
Chloromethane	ND	ug/l	25.				
Vinyl Chloride	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene 95.0 %

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: L0110680-14	Date Collected: 30-OCT-2001 09:00
Sample Matrix: TRIP BLANK	Date Received: 13-NOV-2001
Sample Matrix: WATER	Date Reported: 20-NOV-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by GC 8021				1 8021B	1115 19:45 MM	
Bromodichloromethane	ND	ug/l	0.50			
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Dibromodichloromethane	ND	ug/l	5.0			
Bromomethane/Chloroethane	ND	ug/l	5.0			
Chloroform	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	0.50			
1,3-Dichlorobenzene	ND	ug/l	0.50			
1,4-Dichlorobenzene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1-Dichloroethene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	0.50			
2-Chloroethyl vinyl ether	ND	ug/l	5.0			
Chloromethane	ND	ug/l	5.0			
Vinyl Chloride	ND	ug/l	2.0			

Surrogate Recovery

4-Bromochlorobenzene	86.0	%
----------------------	------	---

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

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0110680

Parameter	Value 1	Value 2	RPD	Units
Fluoride for sample(s) 01-07 (L0110680-04, WG97881)				
Fluoride	ND	ND	NC	mg/l
Fluoride for sample(s) 13 (L0110556-01, WG97993)				
Fluoride	ND	0.23	NC	mg/l
Fluoride for sample(s) 08-09 (L0110680-08, WG98137)				
Fluoride	ND	ND	NC	mg/l
Fluoride for sample(s) 10-12 (L0110680-12, WG98138)				
Fluoride	0.36	0.29	22	mg/l

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0110680

Parameter	% Recovery
<b>Fluoride LCS for sample(s) 01-07 (WG97881)</b>	
Fluoride	87
<b>Fluoride LCS for sample(s) 13 (WG97993)</b>	
Fluoride	94
<b>Fluoride LCS for sample(s) 10-12 (WG98138)</b>	
Fluoride	86
<b>Fluoride LCS for sample(s) 08-09 (WG98137)</b>	
Fluoride	93
<b>Volatile Organics by GC 8021 LCS for sample(s) 03 (WG97973)</b>	
Chlorobenzene	105
1,1-Dichloroethene	109
Trichloroethene	103
Chloromethane	86
Vinyl chloride	99
Surrogate Recovery	
4-Bromochlorobenzene	95
<b>Volatile Organics by GC 8021 LCS for sample(s) 04 (WG97973)</b>	
Chlorobenzene	113
1,1-Dichloroethene	95
Trichloroethene	111
Chloromethane	94
Vinyl chloride	111
Surrogate Recovery	
4-Bromochlorobenzene	88
<b>Volatile Organics by GC 8021 LCS for sample(s) 01,07-08,10-14 (WG97973)</b>	
Chlorobenzene	109
1,1-Dichloroethene	106
Trichloroethene	110
Chloromethane	92
Vinyl chloride	112
Surrogate Recovery	
4-Bromochlorobenzene	99
<b>Volatile Organics by GC 8021 LCS for sample(s) 02,05-06,09 (WG97588)</b>	
Chlorobenzene	104
1,1-Dichloroethene	109
Trichloroethene	103
Chloromethane	81
Vinyl chloride	93

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0110680

Continued

---

Parameter	% Recovery
Volatile Organics by GC 8021 LCS for sample(s) 02, 05-06, 09 (WG97588)	
Surrogate Recovery	
4-Bromochlorobenzene	95
Fluoride SPIKE for sample(s) 01-07 (L0110680-03, WG97881)	
Fluoride	82
Fluoride SPIKE for sample(s) 10-12 (L0110680-11, WG98138)	
Fluoride	97
Fluoride SPIKE for sample(s) 13 (L0110680-13, WG97993)	
Fluoride	84
Fluoride SPIKE for sample(s) 08-09 (L0110592-01, WG98137)	
Fluoride	89

---

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0110680

---

Parameter	MS %	MSD %	RPD
<b>Volatile Organics by GC 8021 for sample(s) 02, 05-06, 09 (L0110521-02, WG97588)</b>			
Chlorobenzene	128	125	2
1,1-Dichloroethene	130	124	5
Trichloroethene	124	122	2
Chloromethane	99	90	9
Vinyl chloride	118	113	4
<b>Volatile Organics by GC 8021 for sample(s) 01, 03-04, 07-08, 10-14 (L0110680-10, WG97973)</b>			
Chlorobenzene	116	115	1
1,1-Dichloroethene	122	118	3
Trichloroethene	111	125	12
Chloromethane	73	88	19
Vinyl chloride	85	108	24

---

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0110680

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-07							
Fluoride	ND	mg/l	0.20	30 4500F-BC	1115 12:05	1117 14:30	SU
Blank Analysis for sample(s) 13							
Fluoride	ND	mg/l	0.20	30 4500F-BC	1116 09:00	1116 10:45	MA
Blank Analysis for sample(s) 08-09							
Fluoride	ND	mg/l	0.20	30 4500F-BC	1117 10:00	1117 14:30	SU
Blank Analysis for sample(s) 10-12							
Fluoride	ND	mg/l	0.20	30 4500F-BC	1119 11:40	1119 15:45	MA
Blank Analysis for sample(s) 02, 05-06, 09							
Volatile Organics by GC 8021				1 8021B			1114 17:46 MM
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromodichloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Chloromethane	ND	ug/l	5.0				
Vinyl Chloride	ND	ug/l	2.0				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0110680

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP    ANAL	ID
-----------	--------	-------	-----	------------	----------------------	----

Blank Analysis for sample(s) 02,05-06,09

Volatile Organics by GC 8021 continued	1 8021B	1114 17:46 MM
--	---------	---------------

4-Bromochlorobenzene                      76.0                      %

Blank Analysis for sample(s) 01,07-08,10-14

Volatile Organics by GC 8021	1 8021B	1115 11:17 MM
------------------------------	---------	---------------

Bromodichloromethane	ND	ug/l	0.50
Bromoform	ND	ug/l	0.50
Carbon tetrachloride	ND	ug/l	0.50
Chlorobenzene	ND	ug/l	0.50
Dibromochloromethane	ND	ug/l	5.0
Bromomethane/Chloroethane	ND	ug/l	5.0
Chloroform	ND	ug/l	0.50
1,2-Dichlorobenzene	ND	ug/l	0.50
1,3-Dichlorobenzene	ND	ug/l	0.50
1,4-Dichlorobenzene	ND	ug/l	0.50
Dichlorodifluoromethane	ND	ug/l	5.0
1,1-Dichloroethane	ND	ug/l	0.50
1,2-Dichloroethane	ND	ug/l	0.50
1,1-Dichloroethene	ND	ug/l	0.50
cis-1,2-Dichloroethene	ND	ug/l	0.50
trans-1,2-Dichloroethene	ND	ug/l	0.50
1,2-Dichloropropane	ND	ug/l	0.50
cis-1,3-Dichloropropene	ND	ug/l	0.50
trans-1,3-Dichloropropene	ND	ug/l	0.50
Methylene chloride	ND	ug/l	5.0
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50
Tetrachloroethene	ND	ug/l	0.50
1,1,1-Trichloroethane	ND	ug/l	0.50
1,1,2-Trichloroethane	ND	ug/l	0.50
Trichloroethene	ND	ug/l	0.50
Trichlorofluoromethane	ND	ug/l	0.50
2-Chloroethyl vinyl ether	ND	ug/l	5.0
Chloromethane	ND	ug/l	5.0
Vinyl Chloride	ND	ug/l	2.0

Surrogate Recovery

4-Bromochlorobenzene                      85.0                      %

Blank Analysis for sample(s) 03

Volatile Organics by GC 8021	1 8021B	1116 12:31 MM
------------------------------	---------	---------------

Bromodichloromethane	ND	ug/l	0.50
Bromoform	ND	ug/l	0.50
Carbon tetrachloride	ND	ug/l	0.50
Chlorobenzene	ND	ug/l	0.50
Dibromochloromethane	ND	ug/l	5.0

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0110680

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 03							
Volatile Organics by GC 8021 continued				1	8021B	1116 12:31 MM	
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Chloromethane	ND	ug/l	5.0				
Vinyl Chloride	ND	ug/l	2.0				

Surrogate Recovery

4-Bromochlorobenzene                      90.0                      %

Blank Analysis for sample(s) 04							
Volatile Organics by GC 8021				1	8021B	1119 15:18 MM	
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				



ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0110680

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 04							
Volatile Organics by GC 8021 continued				1	8021B	1119 15:18 MM	
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Chloromethane	ND	ug/l	5.0				
Vinyl Chloride	ND	ug/l	2.0				
Surrogate Recovery							
4-Bromochlorobenzene	89.0	%					

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.

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 its 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.

## Quality Control Acceptance Criteria

### Volatile Organics by Method 8260B

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
1,2-Dichloroethane-d <sub>4</sub>	75%	125%	75%	125%		
4-Bromofluorobenzene	75%	125%	75%	125%		
Toluene-d <sub>8</sub>	75%	125%	75%	125%		
Dibromofluoromethane	75%	125%	75%	125%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	61%	145%	59%	172%	all target compounds	
Trichloroethene	71%	120%	62%	137%	20%	30%
Chlorobenzene	75%	130%	60%	133%		
Benzene	76%	127%	66%	142%		
Toluene	76%	125%	59%	139%		

### Volatile Organics by Method 8021B

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
4-Bromochlorobenzene	70%	110%	70%	120%		
4-Bromofluorobenzene	70%	110%	70%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	70%	130%	70%	130%	all target compounds	
Trichloroethene	70%	130%	70%	130%	20%	30%
Chlorobenzene	70%	130%	70%	130%		
Benzene	70%	130%	70%	130%		
Toluene	70%	130%	70%	130%		
Ethylbenzene	70%	130%	70%	130%		

### Semi-Volatile Organics by Method 8270C (includes PAHs)

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
Nitrobenzene-d <sub>5</sub>	23%	120%	23%	120%		
Phenol-d <sub>6</sub>	10%	120%	10%	120%		
2-Fluorophenol	21%	120%	25%	120%		
2-Fluorobiphenyl	43%	120%	30%	120%		
p-Terphenyl-d <sub>14</sub>	33%	120%	18%	120%		
2,4,6-Tribromophenol	10%	120%	19%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,2,4-Trichlorobenzene	39%	98%	38%	107%	all target compounds	
Acenaphthene	46%	118%	31%	137%	40%	50%
2,4-Dinitrotoluene	24%	96%	28%	89%		
Pyrene	26%	127%	35%	142%		
N-Nitroso-di-n-propylamine	41%	116%	41%	126%		
1,4-Dichlorobenzene	36%	97%	28%	104%		
Pentachlorophenol	9%	103%	17%	109%		
Phenol	12%	110%	26%	90%		
2-Chlorophenol	27%	123%	25%	102%		
4-Chloro-3-methylphenol	23%	97%	26%	103%		
4-Nitrophenol	10%	80%	11%	114%		

## Quality Control Acceptance Criteria

### PCB/Pesticides by Method 8082/8081

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
2,4,5,6-Tetrachloro-m-xylene	40%	120%	40%	120%		
Decachlorobiphenyl	40%	120%	40%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
Lindane	56%	123%	46%	127%	all target compounds 30%      50%	
Heptachlor	40%	131%	35%	130%		
Aldrin	40%	120%	34%	132%		
Dieldrin	52%	126%	31%	134%		
Endrin	56%	121%	42%	139%		
4,4'-DDT	38%	127%	23%	134%		
Aroclor 1242/1016	40%	140%	40%	140%		
Aroclor 1260	40%	140%	40%	140%		

### Volatile Petroleum Hydrocarbons (VPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
2,5-Dibromotoluene	70%	130%	70%	130%		
laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
all compounds	70%	130%	70%	130%	50%	50%

### Extractable Petroleum Hydrocarbons (EPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
Chloro-octadecane	40%	140%	40%	140%		
ortho-Terphenyl	40%	140%	40%	140%		
2-Fluorobiphenyl (fractionation)	40%	140%	40%	140%		
2-Bromonaphthalene (fractionation)	40%	140%	40%	140%		
laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
all compounds	40%	140%	40%	140%	50%	50%

### TPH (GC-FID) by Method 8100M

surrogate spike % recovery	AQ Limits		Soil Limits		duplicate	
	LCL	UCL	LCL	UCL	AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
ortho-Terphenyl	40%	140%	40%	140%	40%	40%

### TPH by Method 418.1

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
TPH	60%	140%	60%	140%	40%	40%

## Quality Control Acceptance Criteria

### Trace Metals by Method 6010B/7000 series

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
target analyte	75%	125%	70%	140%	20%	35%

### Mercury by Method 7470A/7471A

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
mercury	70%	130%	60%	140%	35%	45%

### Total Cyanide by Method 9010B

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
cyanide	80%	120%	65%	135%	30%	40%

### Total Phenol by Method 9065

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
phenol	70%	130%	65%	135%	20%	30%

# 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 1076

Sheet 1 of 2

Date Rec'd in Lab: 11/13

Client Name: ERM  
 Client Address: 399 Boulston St 6 Fl  
Boston MA 02116  
 Phone #: 617 267 8377 FAX #: 617 267 6447

Project Name: Raytheon  
 Project Location: Wayford, MA  
 Project #: 143.56  
 Project Manager: Joe Fiacco

Report To: Joe Fiacco  
 Bill To: \_\_\_\_\_  
 PO#: \_\_\_\_\_

- 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)	8021C	Fluoride											
MW-335	MW	11-12-01	1125	VZ	N	2	1											
MW-33M			1340			2	1											
MW-116			1420			2	1											
MW-115			1520			2	1											
MW-114			1615			2	1											
MW-113			1710			2	1											
MW-112		11-13-01	840			2	1											
MW-111			1010			2	1											
MW-110			1115			2	1											
MW-109			1220			2	1											
MW-108			1335			2	1											

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

# of Containers: 22 11  
 Container Type: \* V P  
 Resc: B A

Transfers Accepted By:	Date	Time
<i>[Signature]</i>	11/13/01	1710
<i>[Signature]</i>	11/13/01	1800
Transfers Relinquished By:		
<i>[Signature]</i>		
<i>[Signature]</i>		

# 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 1075

Sheet 2 of 2

Date Rec'd in Lab: 4/13

Client Name: ERM  
 Client Address: 399 Baylston St 6F1  
Boston, MA 02116  
 Phone #: 617 267 8377 FAX #: 617 267 6447

Project Name: Raytheon  
 Project Location: Weyland, MA  
 Project #: 143.56  
 Project Manager: Joe Fiarco

Report To: Joe Fiarco  
 Bill To: \_\_\_\_\_  
 PO#: \_\_\_\_\_

- 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)	8021C	Fluoride											
MW-107	MW	11-13-01	1450	VZ	N	2	1											
DUB-1	MW	11-12-01	800	VZ	N	2	1											
TRIP BLK						2												

Transfers Relinquished By:	Transfers Accepted By:	Date	Time
<u>Victoria Zolten</u>	<u>Sandra Edmonds</u>	<u>11/13/01</u>	<u>1710</u>
<u>Sandra Edmonds</u>	<u>[Signature]</u>	<u>11/13/01</u>	<u>1800</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: 12 X2  
 Container Type: \* V P  
 Preservative: • B A

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65 NY: 11148

CERTIFICATE OF ANALYSIS

Client: ERM-New England Laboratory Job Number: L0111804  
Address: 399 Boylston Street Invoice Number: 58033  
6th Floor  
Boston, MA 02116 Date Received: 13-DEC-01  
Attn: Mr. Joe Fiacco Date Reported: 19-DEC-01  
Project Number: 143.56 Delivery Method: Alpha  
Site: RAYTHEON

---

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0111804-01	MW-104	WAYLAND, MA
L0111804-02	MW-105	WAYLAND, MA
L0111804-03	MW-106	WAYLAND, MA
L0111804-04	MW-43S	WAYLAND, MA
L0111804-05	MW-43D	WAYLAND, MA
L0111804-06	TRIP BLANK	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

Scott McLean - Laboratory Director  
This document electronically signed



ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: L0111804-01	Date Collected: 12-DEC-2001 10:25
Sample Matrix: MW-104	Date Received: 13-DEC-2001
Sample Matrix: WATER	Date Reported: 19-DEC-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by GC 8021				1 8021B	1218 16:40 MM	
Bromodichloromethane	ND	ug/l	5.0			
Bromoform	34.	ug/l	5.0			
Carbon tetrachloride	ND	ug/l	5.0			
Chlorobenzene	ND	ug/l	5.0			
Dibromodichloromethane	ND	ug/l	50.			
Bromomethane/Chloroethane	ND	ug/l	50.			
Chloroform	ND	ug/l	5.0			
1,2-Dichlorobenzene	ND	ug/l	5.0			
1,3-Dichlorobenzene	ND	ug/l	5.0			
1,4-Dichlorobenzene	ND	ug/l	5.0			
Dichlorodifluoromethane	ND	ug/l	50.			
1,1-Dichloroethane	ND	ug/l	5.0			
1,2-Dichloroethane	ND	ug/l	5.0			
1,1-Dichloroethene	ND	ug/l	5.0			
cis-1,2-Dichloroethene	ND	ug/l	5.0			
trans-1,2-Dichloroethene	ND	ug/l	5.0			
1,2-Dichloropropane	ND	ug/l	5.0			
cis-1,3-Dichloropropene	ND	ug/l	5.0			
trans-1,3-Dichloropropene	ND	ug/l	5.0			
Methylene chloride	ND	ug/l	50.			
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0			
Tetrachloroethene	ND	ug/l	5.0			
1,1,1-Trichloroethane	ND	ug/l	5.0			
1,1,2-Trichloroethane	ND	ug/l	5.0			
Trichloroethene	ND	ug/l	5.0			
Trichlorofluoromethane	ND	ug/l	5.0			
2-Chloroethyl vinyl ether	ND	ug/l	50.			
Chloromethane	ND	ug/l	50.			
Vinyl Chloride	ND	ug/l	20.			

Surrogate Recovery

4-Bromochlorobenzene	114.	%
----------------------	------	---

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: L0111804-02	Date Collected: 12-DEC-2001 11:55
Sample Matrix: MW-105	Date Received: 13-DEC-2001
Sample Matrix: WATER	Date Reported: 19-DEC-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by GC 8021				1 8021B	1218 17:33 MM	
Bromodichloromethane	ND	ug/l	1.0			
Bromoform	ND	ug/l	1.0			
Carbon tetrachloride	ND	ug/l	1.0			
Chlorobenzene	ND	ug/l	1.0			
Dibromodichloromethane	ND	ug/l	10.			
Bromomethane/Chloroethane	ND	ug/l	10.			
Chloroform	ND	ug/l	1.0			
1,2-Dichlorobenzene	ND	ug/l	1.0			
1,3-Dichlorobenzene	ND	ug/l	1.0			
1,4-Dichlorobenzene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	10.			
1,1-Dichloroethane	ND	ug/l	1.0			
1,2-Dichloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	1.6	ug/l	1.0			
trans-1,2-Dichloroethene	ND	ug/l	1.0			
1,2-Dichloropropane	ND	ug/l	1.0			
cis-1,3-Dichloropropene	ND	ug/l	1.0			
trans-1,3-Dichloropropene	ND	ug/l	1.0			
Methylene chloride	ND	ug/l	10.			
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0			
Tetrachloroethene	ND	ug/l	1.0			
1,1,1-Trichloroethane	ND	ug/l	1.0			
1,1,2-Trichloroethane	ND	ug/l	1.0			
Trichloroethene	82.	ug/l	1.0			
Trichlorofluoromethane	ND	ug/l	1.0			
2-Chloroethyl vinyl ether	ND	ug/l	10.			
Chloromethane	ND	ug/l	10.			
Vinyl Chloride	ND	ug/l	4.0			

Surrogate Recovery

4-Bromochlorobenzene	91.0	%
----------------------	------	---

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: L0111804-03	Date Collected: 12-DEC-2001 14:20
Sample Matrix: MW-106	Date Received: 13-DEC-2001
Sample Matrix: WATER	Date Reported: 19-DEC-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by GC 8021				1 8021B	1218 18:26 MM	
Bromodichloromethane	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.5			
Carbon tetrachloride	ND	ug/l	2.5			
Chlorobenzene	ND	ug/l	2.5			
Dibromodichloromethane	ND	ug/l	25.			
Bromomethane/Chloroethane	ND	ug/l	25.			
Chloroform	ND	ug/l	2.5			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Dichlorodifluoromethane	ND	ug/l	25.			
1,1-Dichloroethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	2.5			
1,1-Dichloroethene	ND	ug/l	2.5			
cis-1,2-Dichloroethene	ND	ug/l	2.5			
trans-1,2-Dichloroethene	ND	ug/l	2.5			
1,2-Dichloropropane	ND	ug/l	2.5			
cis-1,3-Dichloropropene	ND	ug/l	2.5			
trans-1,3-Dichloropropene	ND	ug/l	2.5			
Methylene chloride	ND	ug/l	25.			
1,1,2,2-Tetrachloroethane	ND	ug/l	2.5			
Tetrachloroethene	ND	ug/l	2.5			
1,1,1-Trichloroethane	ND	ug/l	2.5			
1,1,2-Trichloroethane	ND	ug/l	2.5			
Trichloroethene	120	ug/l	2.5			
Trichlorofluoromethane	ND	ug/l	2.5			
2-Chloroethyl vinyl ether	ND	ug/l	25.			
Chloromethane	ND	ug/l	25.			
Vinyl Chloride	ND	ug/l	10.			

Surrogate Recovery

4-Bromochlorobenzene	106.	%
----------------------	------	---

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: L0111804-04	Date Collected: 12-DEC-2001 09:50
Sample Matrix: MW-43S	Date Received: 13-DEC-2001
Sample Matrix: WATER	Date Reported: 19-DEC-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by GC 8021				1 8021B	1218 19:18 MM	
Bromodichloromethane	ND	ug/l	5.0			
Bromoform	ND	ug/l	5.0			
Carbon tetrachloride	ND	ug/l	5.0			
Chlorobenzene	ND	ug/l	5.0			
Dibromodichloromethane	ND	ug/l	50.			
Bromomethane/Chloroethane	ND	ug/l	50.			
Chloroform	ND	ug/l	5.0			
1,2-Dichlorobenzene	ND	ug/l	5.0			
1,3-Dichlorobenzene	ND	ug/l	5.0			
1,4-Dichlorobenzene	ND	ug/l	5.0			
Dichlorodifluoromethane	ND	ug/l	50.			
1,1-Dichloroethane	ND	ug/l	5.0			
1,2-Dichloroethane	ND	ug/l	5.0			
1,1-Dichloroethene	ND	ug/l	5.0			
cis-1,2-Dichloroethene	ND	ug/l	5.0			
trans-1,2-Dichloroethene	ND	ug/l	5.0			
1,2-Dichloropropane	ND	ug/l	5.0			
cis-1,3-Dichloropropene	ND	ug/l	5.0			
trans-1,3-Dichloropropene	ND	ug/l	5.0			
Methylene chloride	ND	ug/l	50.			
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0			
Tetrachloroethene	ND	ug/l	5.0			
1,1,1-Trichloroethane	ND	ug/l	5.0			
1,1,2-Trichloroethane	ND	ug/l	5.0			
Trichloroethene	ND	ug/l	5.0			
Trichlorofluoromethane	ND	ug/l	5.0			
2-Chloroethyl vinyl ether	ND	ug/l	50.			
Chloromethane	ND	ug/l	50.			
Vinyl Chloride	ND	ug/l	20.			

Surrogate Recovery

4-Bromochlorobenzene	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: L0111804-05 Date Collected: 12-DEC-2001 12: 35  
 Sample Matrix: MW-43D Date Received : 13-DEC-2001  
 WATER Date Reported : 19-DEC-2001  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	1218 14: 18 MM		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Chloromethane	ND	ug/l	5.0				
Vinyl Chloride	ND	ug/l	2.0				

Surrogate Recovery

4-Bromochlorobenzene 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: L0111804-06 Date Collected: 28-NOV-2001 13:30  
 Sample Matrix: TRIP BLANK Date Received: 13-DEC-2001  
 WATER Date Reported: 19-DEC-2001  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	1218 13:25 MM		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Chloromethane	ND	ug/l	5.0				
Vinyl Chloride	ND	ug/l	2.0				

Surrogate Recovery

4-Bromochlorobenzene 119. %

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

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0111804

---

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

---

Volatile Organics by GC 8021 LCS for sample(s) 01-04, 06 (WG100418)

Chlorobenzene	112
1,1-Dichloroethene	104
Trichloroethene	110

Surrogate Recovery

4-Bromochlorobenzene	103
----------------------	-----

Volatile Organics by GC 8021 LCS for sample(s) 05 (WG100812)

Chlorobenzene	112
1,1-Dichloroethene	104
Trichloroethene	110

Surrogate Recovery

4-Bromochlorobenzene	103
----------------------	-----

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0111804

---

Parameter	MS %	MSD %	RPD
Volatile Organics by GC 8021 for sample(s) 01-04, 06 (L0111673-10, WG100418)			
Chlorobenzene	97	96	1
1,1-Dichloroethene	92	94	2
Trichloroethene	94	95	1
Volatile Organics by GC 8021 for sample(s) 05 (L0111804-05, WG100812)			
Chlorobenzene	124	123	1
1,1-Dichloroethene	108	111	3
Trichloroethene	111	115	4

---



ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0111804

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-04, 06							
Volatile Organics by GC 8021				1	8021B	1218 11:04 MM	
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Chloromethane	ND	ug/l	5.0				
Vinyl Chloride	ND	ug/l	2.0				

Surrogate Recovery

4-Bromochlorobenzene                      101.                      %

Blank Analysis for sample(s) 05							
Volatile Organics by GC 8021				1	8021B	1218 11:04 MM	
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0111804

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 05							
Volatile Organics by GC 8021 continued				1	8021B	1218 11:04 MM	
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Chloromethane	ND	ug/l	5.0				
Vinyl Chloride	ND	ug/l	2.0				
Surrogate Recovery							
4-Bromochlorobenzene	101.	%					

ALPHA ANALYTICAL LABORATORIES  
ADDENDUM I

---

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

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 its 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.

## Quality Control Acceptance Criteria

### Volatile Organics by Method 8260B

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
1,2-Dichloroethane-d <sub>4</sub>	75%	125%	75%	125%		
4-Bromofluorobenzene	75%	125%	75%	125%		
Toluene-d <sub>8</sub>	75%	125%	75%	125%		
Dibromofluoromethane	75%	125%	75%	125%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	61%	145%	59%	172%	all target compounds	
Trichloroethene	71%	120%	62%	137%	20%	30%
Chlorobenzene	75%	130%	60%	133%		
Benzene	76%	127%	66%	142%		
Toluene	76%	125%	59%	139%		

### Volatile Organics by Method 8021B

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
4-Bromochlorobenzene	70%	110%	70%	120%		
4-Bromofluorobenzene	70%	110%	70%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	70%	130%	70%	130%	all target compounds	
Trichloroethene	70%	130%	70%	130%	20%	30%
Chlorobenzene	70%	130%	70%	130%		
Benzene	70%	130%	70%	130%		
Toluene	70%	130%	70%	130%		
Ethylbenzene	70%	130%	70%	130%		

### Semi-Volatile Organics by Method 8270C (includes PAHs)

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
Nitrobenzene-d <sub>5</sub>	23%	120%	23%	120%		
Phenol-d <sub>6</sub>	10%	120%	10%	120%		
2-Fluorophenol	21%	120%	25%	120%		
2-Fluorobiphenyl	43%	120%	30%	120%		
p-Terphenyl-d <sub>14</sub>	33%	120%	18%	120%		
2,4,6-Tribromophenol	10%	120%	19%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,2,4-Trichlorobenzene	39%	98%	38%	107%	all target compounds	
Acenaphthene	46%	118%	31%	137%	40%	50%
2,4-Dinitrotoluene	24%	96%	28%	89%		
Pyrene	26%	127%	35%	142%		
N-Nitroso-di-n-propylamine	41%	116%	41%	126%		
1,4-Dichlorobenzene	36%	97%	28%	104%		
Pentachlorophenol	9%	103%	17%	109%		
Phenol	12%	110%	26%	90%		
2-Chlorophenol	27%	123%	25%	102%		
4-Chloro-3-methylphenol	23%	97%	26%	103%		
4-Nitrophenol	10%	80%	11%	114%		

### Quality Control Acceptance Criteria

#### PCB/Pesticides by Method 8082/8081

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
2,4,5,6-Tetrachloro-m-xylene	40%	120%	40%	120%		
Decachlorobiphenyl	40%	120%	40%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
Lindane	56%	123%	46%	127%	all target compounds	
Heptachlor	40%	131%	35%	130%	30%	50%
Aldrin	40%	120%	34%	132%		
Dieldrin	52%	126%	31%	134%		
Endrin	56%	121%	42%	139%		
4,4'-DDT	38%	127%	23%	134%		
Aroclor 1242/1016	40%	140%	40%	140%		
Aroclor 1260	40%	140%	40%	140%		

#### Volatile Petroleum Hydrocarbons (VPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
2,5-Dibromotoluene	70%	130%	70%	130%		
laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
all compounds	70%	130%	70%	130%	50%	50%

#### Extractable Petroleum Hydrocarbons (EPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
Chloro-octadecane	40%	140%	40%	140%		
ortho-Terphenyl	40%	140%	40%	140%		
2-Fluorobiphenyl (fractionation)	40%	140%	40%	140%		
2-Bromonaphthalene (fractionation)	40%	140%	40%	140%		
laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
all compounds	40%	140%	40%	140%	50%	50%

#### TPH (GC-FID) by Method 8100M

surrogate spike % recovery	AQ Limits		Soil Limits		duplicate	
	LCL	UCL	LCL	UCL	AQ Limits	Soil Limits
					RPD	RPD
ortho-Terphenyl	40%	140%	40%	140%	40%	40%

#### TPH by Method 418.1

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
TPH	60%	140%	60%	140%	40%	40%

## Quality Control Acceptance Criteria

### Trace Metals by Method 6010B/7000 series

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
target analyte	75%	125%	70%	140%	20%	35%

### Mercury by Method 7470A/7471A

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
mercury	70%	130%	60%	140%	35%	45%

### Total Cyanide by Method 9010B

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
cyanide	80%	120%	65%	135%	30%	40%

### Total Phenol by Method 9065

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
phenol	70%	130%	65%	135%	20%	30%

# 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 15149

Sheet 1 of 1

Date Due: 12/20

Client Name: GRM  
 Client Address: 399 Boylston St Fl 6  
 Boston MA 02114  
 Phone #: 617 267 8377 FAX #: 617 267 6447

Project Name: Paytheon  
 Project Location: Wayland MA  
 Project #: 143.56  
 Project Manager: Joe Falco

Report To: Joe Falco  
 Bill To:

- 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)												
MW-104	MW	12/24	1025	VZ	N	2											
MW-105	↓	↓	1155	↓	↓	2											
MW-106	↓	↓	1420	↓	↓	2											
MW-43S	↓	↓	950	↓	↓	2											
MW-43D	↓	↓	1235	↓	↓	2											
Tripblok		11/28	1330			X											

8021C

Transfers Relinquished By:	Transfers Accepted By:	Date	Time
<i>[Signature]</i>	<i>[Signature]</i>	12/15	185
<i>[Signature]</i>	<i>[Signature]</i>		
<i>[Signature]</i>	<i>[Signature]</i>		

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

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

# of Containers: 10  
 Container Type: \* ✓  
 Preservative: \* B3