004220

Y-12

Y/SUB/85-97376/3

OAK RIDGE
Y-12
PLANT

MARTIN MARIETTA

LABORATORY REPORTS - VOLATILE ORGANICS, HERBICIDES, PESTICIDES, AND PCBS: GROUNDWATER, SURFACE WATER AND SEDIMENT SAMPLES COLLECTED IN THE Y-12 PLANT BEAR CREEK VALLEY WASTE DISPOSAL AREAS (AUGUST 1985)

RECORD COPY

NOVEMBER 1986

C. W. KIMBROUGH
PROJECT MANAGER

ENVIRONMENTAL RESTORATION DIVISION
DOCUMENT MANAGEMENT CENTER
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Document Prepared by
Roy F. Weston, Inc.
Weston Way
West Chester, Pennsylvania 19380
under
Purchase Order 12Y-97376V

for

Oak Ridge Y-12 Plant
Oak Ridge, Tennessee 37831
operated by
MARTIN MARIETTA ENERGY SYSTEMS, INC.
for the
U.S. DEPARTMENT OF ENERGY
Under Contract No. DE-AC05-840R21400

OPERATED BY
MARTIN MARIETTA ENERGY SYSTEMS, INC.
FOR THE UNITED STATES
DEPARTMENT OF ENERGY

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Author(s): R. F. Weston, Inc. (Subcontractor)

TYPE: ☐ Formal Report ☒ Informal Report ☐ Progress/Status Report ☐ Co-Op Report ☐ Thesis/Term Paper

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Signature 11/17/86 Date

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☐ Other Date

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Technical Information Office 1/6/87 Date

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Y/SUB/85-97376/3

LABORATORY REPORTS - VOLATILE ORGANICS, HERBICIDES, PESTICIDES, AND PCBS: GROUNDWATER, SURFACE WATER AND SEDIMENT SAMPLES COLLECTED IN THE Y-12 PLANT BEAR CREEK VALLEY WASTE DISPOSAL AREAS (AUGUST 1985)

This document contains data generated by Roy F. Weston, Inc. under subcontract to Martin Marietta Energy Systems, Inc., for the U.S. Department of Energy under Contract DE-AC05-840R21400. The information contained in this document was recorded by Roy F. Weston, Inc., and should not be interpreted as reflecting the observations of Martin Marietta Energy Systems, Inc.

Document Prepared by
Roy F. Weston, Inc.
Weston Way
West Chester, Pennsylvania 19380
under
Purchase Order 12Y-97376V

for

Oak Ridge Y-12 Plant
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U.S. DEPARTMENT OF ENERGY
Under Contract No. DE-AC05-840R21400

FOREWORD

In June 1985, the Y-12 Plant issued a document[1] that described four alternative remedial-action plans that were developed in response to the requirements of the Environmental Protection Agency (EPA) and the Tennessee Department of Health and Environment (TDHE). Included in that document was information that delineated the extent of contamination in the groundwater and surface water systems, the determination of physical and chemical properties of sediments and soils in the beds of Bear Creek and its tributaries, and estimation of seasonal variations in chemical composition of influents.

Martin Marietta Energy Systems, Inc., acting under its contract with the Department of Energy, executed a subcontract with R. F. Weston, Inc., to collect and analyze samples of water, sediment, and soil from the Y-12 Plant Bear Creek Valley Waste Disposal areas during the period August 1985 through September 1986. This document is one in a series that records the full particulars of the sampling executed in August 1985. The contents of the documents in the series are as follows:

Y/SUB/85-97376/1	Field Notebooks
Y/SUB/85-97376/2	Analytical Results-Summary
Y/SUB/85-97376/3	Laboratory Reports- Volatile Organics, Herbicides, Pesticides, and PCBs
Y/SUB/85-97376/4	Laboratory Reports - Metals
Y/SUB/85-97376/5	Laboratory Reports - Other

The documents containing the laboratory reports also contain Quality Assurance information. Other series of documents will be issued to record the particulars of samplings executed in January, May and August 1986.

Questions concerning data in this document should be directed to Dr. C. W. Kimbrough, telephone (615) 574-3715 or L. L. McCauley, 574-7593.

1) Geraghty & Miller, Inc., "Remedial Alternatives for the Bear Creek Valley Waste Disposal Area," prepared for Martin Marietta Energy Systems, Inc., Y-12 Plant, Y/SUB/85-00206C/3 (June 1985).

TABLE OF CONTENTS

- PRELIMINARY IDENTIFICATION AND LOCATION OF GROUNDWATER WELLS AND SITES TO BE SAMPLED.

- GROUNDWATER WELLS AND SITES SAMPLED IN AUGUST 1985

- LABORATORY REPORTS*:

  VOLATILE ORGANICS
  HERBICIDES
  PESTICIDES
  PCBS

*Include Quality Assurance Data

PRELIMINARY IDENTIFICATION AND LOCATION

OF GROUNDWATER WELLS AND SITES

TO BE SAMPLED

PRELIMINARY IDENTIFICATION OF GROUNDWATER
MONITORING WELLS TO BE SAMPLED IN BEAR CREEK VALLEY
SAMPLING AND ANALYSIS PROGRAM
FY 1985 BASE PROGRAM*

GW-3	GW-63	GW-108
GW-6	GW-64	GW-109
GW-7	GW-68	GW-115
GW-11	GW-69	GW-116
GW-12	GW-70	GW-117
GW-13	GW-71	GW-118
GW-14	GW-72	GW-119
GW-16	GW-74	GW-120
GW-18	GW-75	GW-121
GW-24	GW-77	GW-122
GW-27	GW-78	GW-123
GW-28	GW-80	GW-124
GW-29	GW-81	GW-125
GW-38	GW-82	GW-126
GW-39	GW-83	GW-127
GW-41	GW-84	BG-1
GW-42	GW-87	BG-2
GW-43	GW-93	BG-3
GW-44	GW-94	BG-4
GW-45	GW-95	BG-5
GW-46	GW-96	BG-6
GW-47	GW-97	BG-7
GW-49	GW-98	BG-8
GW-51	GW-100	BG-9
GW-54	GW-101	BG-10
GW-56	GW-103	BG-11
GW-57	GW-104	BG-12
GW-58	GW-105	BG-13
GW-60	GW-106	BG-14
GW-62	GW-107	BG-15
		BG-16
		BG-17
		BG-18
		Y-GMW-2
		Y-GMW-4

*Eighty five of these wells will be designated as being on the base program list prior to the start of sampling. Others may be added for the optional programs.

February 28, 1985

PRELIMINARY IDENTIFICATION OF GROUNDWATER
MONITORING WELLS TO BE SAMPLED IN BEAR CREEK VALLEY
SAMPLING AND ANALYSIS PROGRAM
FY 1985 BASE PROGRAM*

Well No.	North Coord.	East Coord.	Depth in Feet
S-3 Ponds Area			
125	29660	53320	550
108	30070	53207	58.6
109	30056	53207	147.6
107	30080	53206	14.2
106	30418	52843	75
105	30417	52833	17
115	31073.48	52684.99	53
124	29615	52320	470
104	30059	52303	74
103	30058	52291	25
101	30241	51844	17.5
127	29852	51810	24
123	29775	51760	570
122	29790	51760	490
Y-GMW-2	29900	51516	37
Y-GMW-4	29630	51110	13
100	29759	50957	20.7
64	29194.6	49168.8	57
Oil Landfarm Area			
84	30455.5	48768.9	34
87	29533.5	48313.2	19
62	29004.9	48257.7	56.7
63	29016	48256.7	35
3	30142.74	48157.34	35.2
6	39810.42	47994.76	48.6
75	29794.6	47987.9	200
7	29809.76	47981.01	16.5
121	29725	47950	615
43	30521.82	47931.94	40
44	30526.3	47928.22	70
13	30173.69	47342.91	33.8
74	29869.6	47277.5	202
12	29868.39	47189.4	15.5
11	29868.73	47170.9	60.8
98	29452	46959	104
97	29459	46959	19.2
120	29400	45935	180

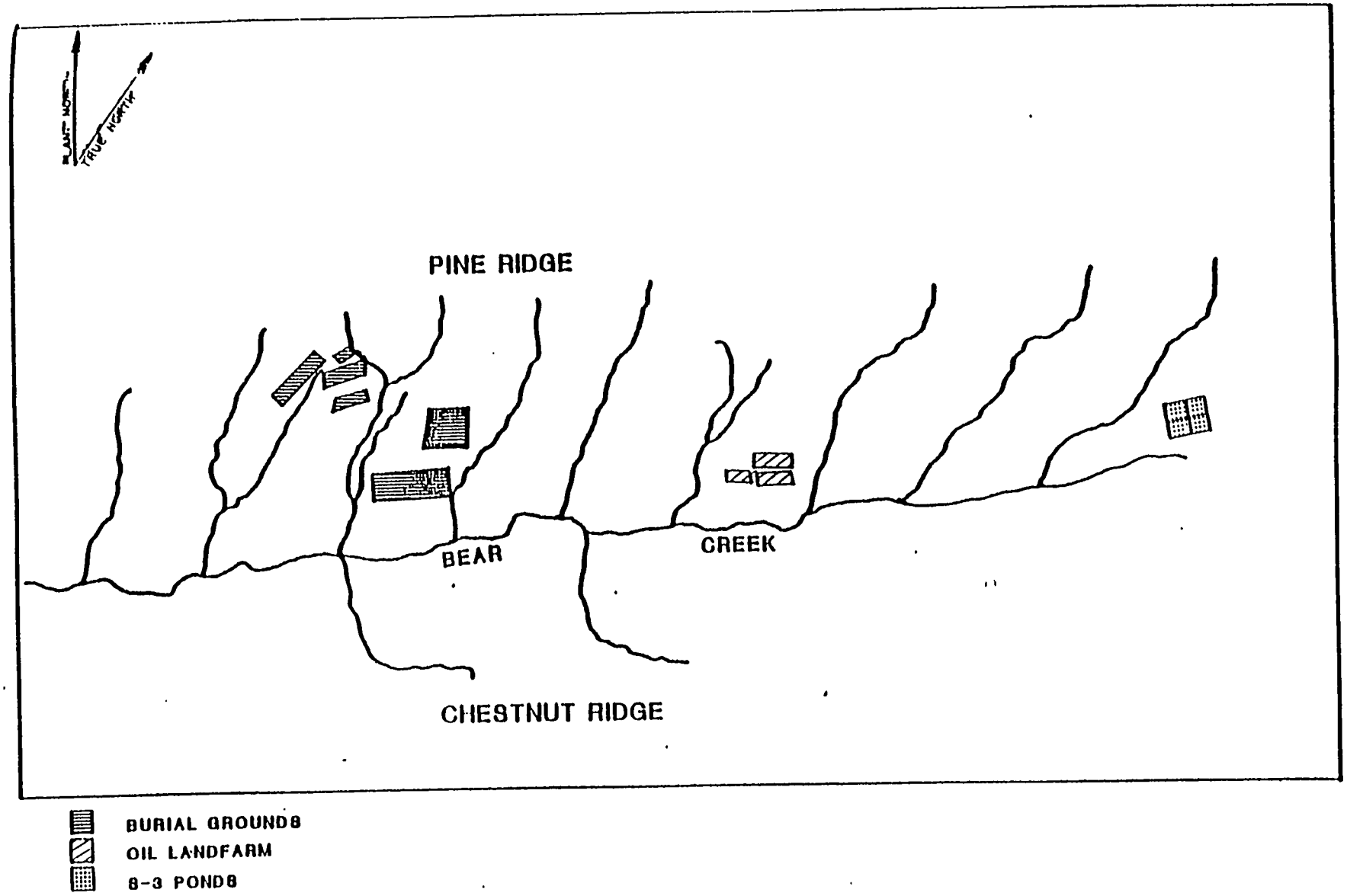
*Eighty five of these wells will be designated as being on the base program list prior to the start of sampling. Others may be added for the optional programs.

March 12, 1985

PRELIMINARY IDENTIFICATION OF GROUNDWATER
MONITORING WELLS TO BE SAMPLED IN BEAR CREEK VALLEY
SAMPLING AND ANALYSIS PROGRAM
FY 1985 BASE PROGRAM

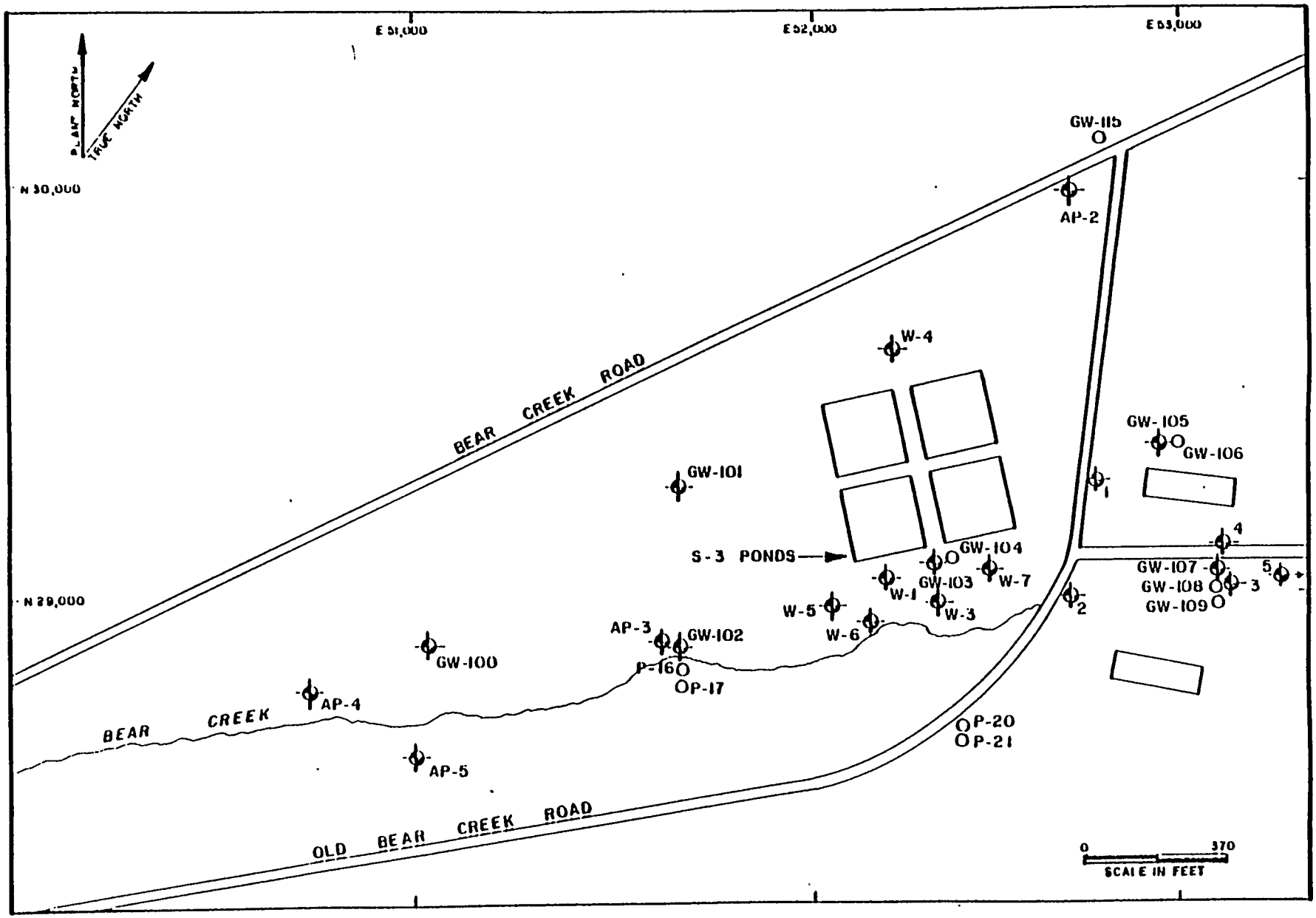
Well No.	North Coord.	East Coord.	Depth in Feet
Burial Ground Area			
BG-2	29420	45420	30
39	30355.12	44587.92	22.5
29	30427.2	44505.36	22.4
47	29609.33	44503.36	25.5
14	29843.33	44312.19	13.2
BG-1	30667	44306	97
16	29534.33	44198.3	17
BG-16	30544	44193	19
71	29494.9	44191.1	220.6
72	29501.9	44158.7	101.4
119	29249	44140	510
49	29244.35	44130.19	20.5
96	29249	44123	61
BG-3	29511	44096	17
42	31137.07	43938.01	30
69	29488.5	43802.1	100
70	29490.5	43787	148
24	30383.86	43760.25	75.7
27	30449.46	43745.25	30.5
51	29051.03	43744.86	11.2
41	31095.57	43739.12	40
BG-6	29205	43661	53
18	29491.82	43619.61	20.8
BG-4	29460	43485	40
68	29499.7	43377.2	85
28	30533.56	43372.83	21.4
118	19145	43368	575
95	29142	43364	156
45	29140.49	43357.4	15.2
20	29731.27	43323.99	53.9
46	29561.75	43283.53	20.5
38	30778.12	43261.79	52.5
58	28713.7	43211.2	45.2
81	31000.6	43144.2	18.8
60	28926.9	43052.9	50
116	29710	43050	285
117	29185	43000	530
BG-18	29600	42980	156
94	29167	42912	131
93	29597	42904	49
BG-7	30000	42900	159
BG-5	29420	42860	38
BG-17	30438	42855	150
BG-13	42822	42822	22
BG-12	31124	42802	23
126	29600	42630	155
83	29943.7	42436.4	30
BG-8	29958	42431	42
BG-9	31027	42413	98
BG-14	30749	42325	21
BG-15	30313	42182	28
BG-10	30200	42181	98
82	30432.3	42089.7	35
BG-11	29800	41675	37
80	30621.5	41620.5	30
56	28695.5	41384.8	55.2
57	28687	41381.1	25
54	28820.7	41296.2	40
77	29729.1	41233.9	100.5
78	29729.5	41209.3	21.1

March 12, 1985



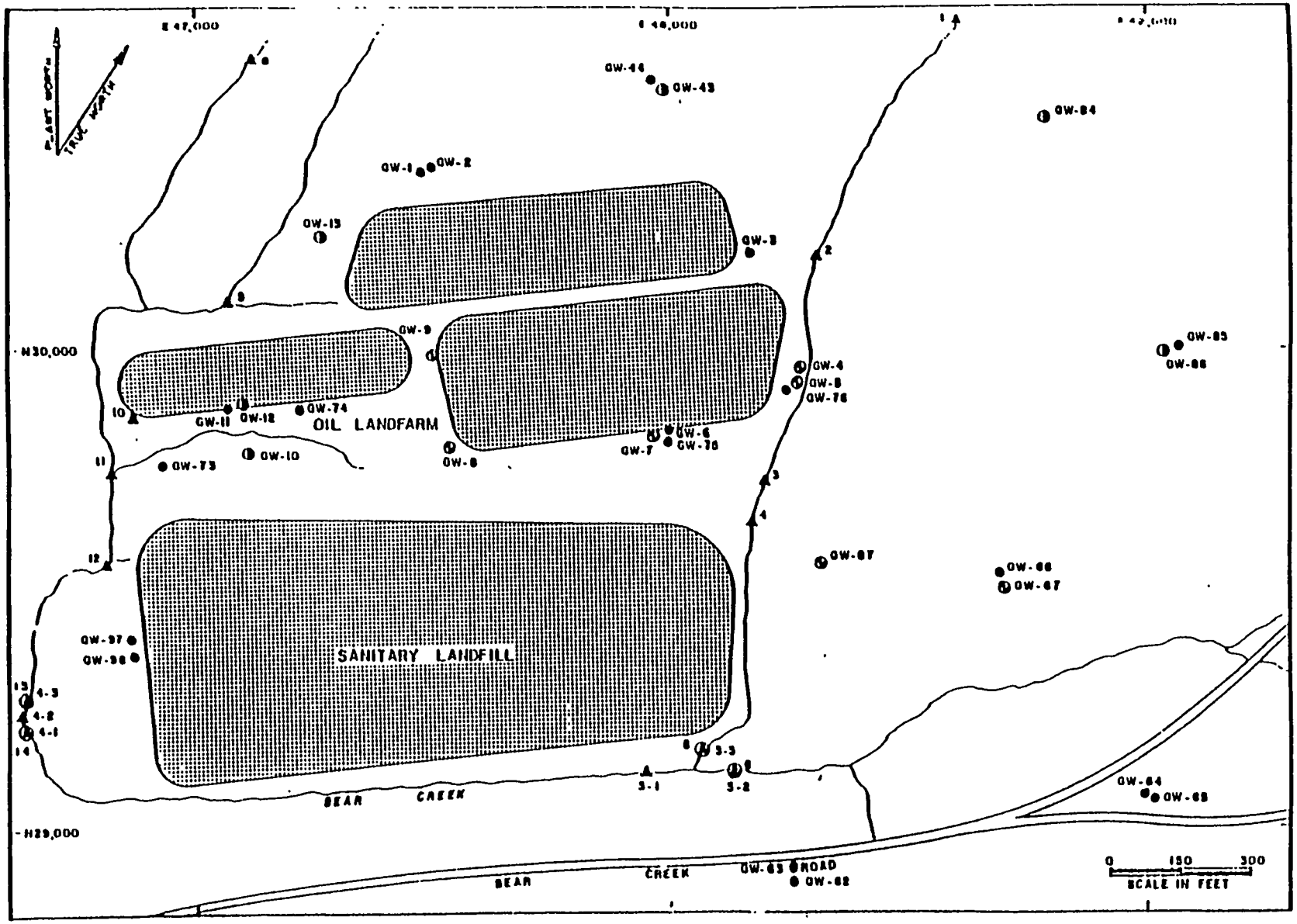
WASTE DISPOSAL AREAS IN BEAR CREEK VALLEY

Figure 1



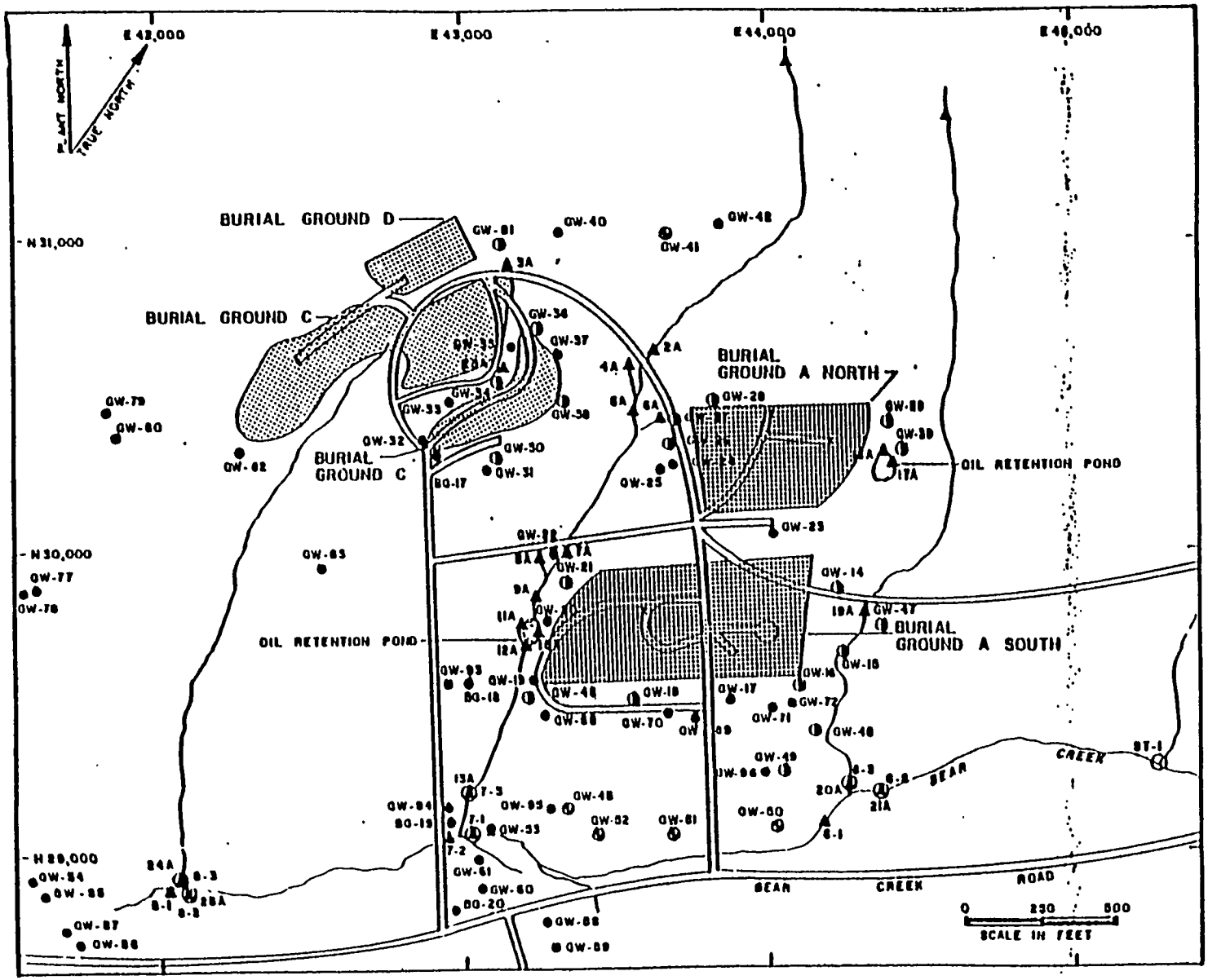
MONITOR WELLS IN THE VICINITY OF THE S-3 PONDS

Figure 2



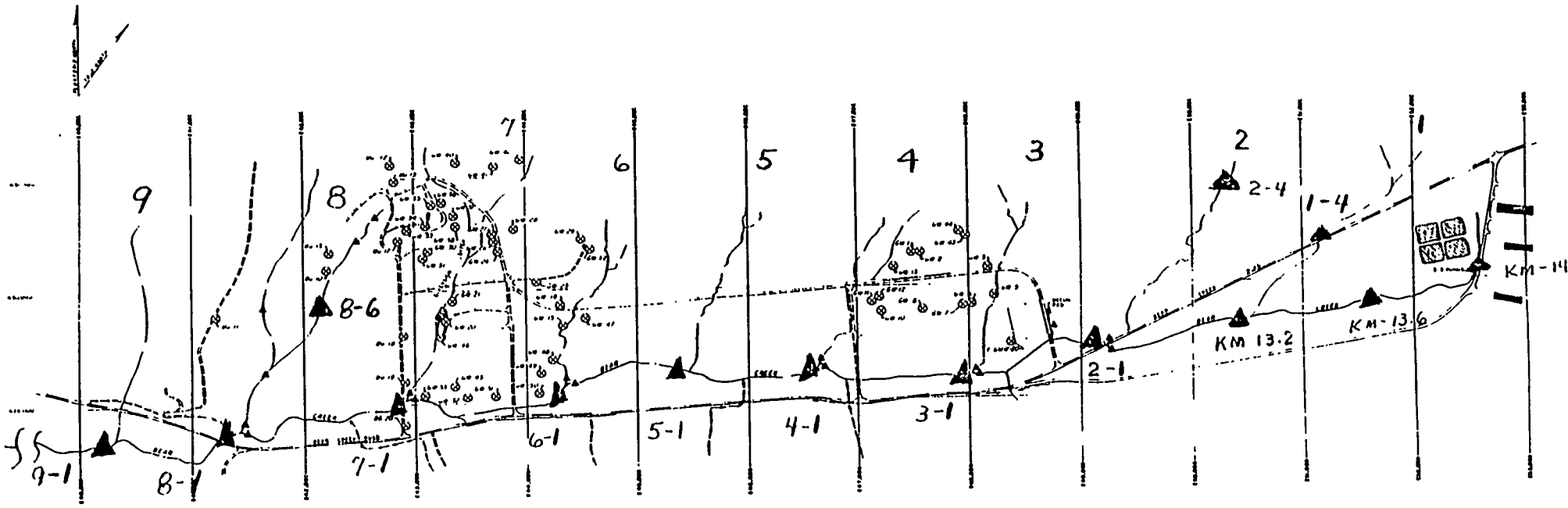
MONITOR WELLS IN THE VICINITY OF THE OIL LANDFARM

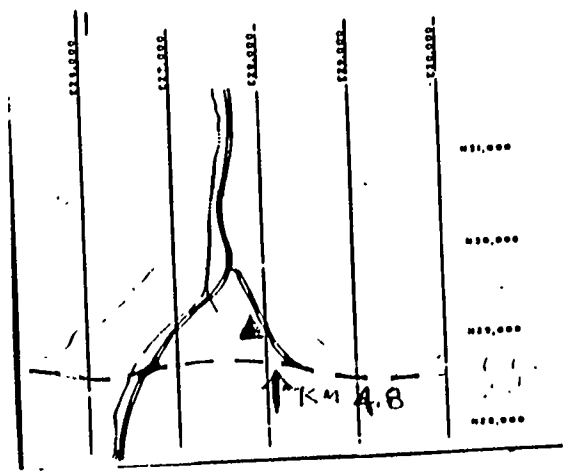
Figure 3



MONITOR WELLS IN THE VICINITY OF THE BURIAL GROUNDS

Figure 4





PRELIMINARY* IDENTIFICATION NUMBERS

Km-14	2-4	7-1
Km-13.6	3-1	8-1
Km-13.2	4-1	8-6
1-4	5-1	9-1
2-1	6-1	Km 4.8

*These locations will be assigned permanent I.D. numbers prior to the start of sampling.

APPROXIMATE LOCATIONS OF
SURFACE WATER AND SEDIMENT SAMPLING STATIONS
BEAR CREEK VALLEY SAMPLING AND ANALYSIS
FY 1985 BASE PROGRAM

Figure 5

February 28, 1985

GROUNDWATER WELLS AND SITES

SAMPLED IN AUGUST 1985

GROUNDWATER WELLS AND
SITES SAMPLED IN
AUGUST 1985

GROUNDWATER WELLS

GW- 3, 6, 7, 11, 12, 13, 14, 16, 18, 20, 24, 27, 28, 29, 39, 41, 42, 43, 44, 45, 46, 47, 54, 56, 57, 58, 60, 62, 63, 64, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 77, 78, 80, 81, 82, 83, 84, 85, 86, 87, 93, 94, 95, 96, 97, 98, 100, 101, 103, 104, 105, 106, 107, 108, 109, 115.

Y GMW-2,4

BG - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18.

SURFACE WATER AND SEDIMENT SAMPLING STATIONS IN BEAR CREEK, GRASSY CREEK AND BEAR CREEK TRIBUTARY 2 NORTH

BCK -3.25, 5.15. 8.87, 9.40, 9.43, 9.91, 10.32, 11.49, 11.83, 12,36,

GCK -1.4, 2.4

NT - 2

Spring - 3

VOLATILE ORGANICS
(INCLUDES QUALITY ASSURANCE DATA)
AUGUST 1985

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(Method: GC/MS)

Date of Report: August 27, 1985

Sample Matrix: Water
Location I.D. GW-4i
Date Sampled: August 9, 1985
Date Reported: August 20, 1985

Project Code: Martin Marietta-Bear Cre
Order No. 1790-07-01
Chain of Custody No.: 8508-838-0010

Volatile Organic	Detection Limit	Conc. Units ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	2
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"
Other Acetone	"	6

NOTE: ND means Not Detected
<10 means detected but at a level less than the lower quantitation limit of 10 ppb

Signatures & Certification

COMPILED BY: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

APPROVED BY: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(Method: GC/MS)

Date of Report: August 27, 1985

Sample Matrix: Water
Location I.D. YMGW-4
Date Sampled: August 9, 1985
Date Reported: August 20, 1985

Project Code: Martin Marietta-Bear Cree
Order No. 1790-07-01
Chain of Custody No.: 8508-838-0020

Volatile Organic	Detection Limit	Conc. Units ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"
Other Acetone	"	<10

NOTE: ND means Not Detected
<10 means detected but at a level less than the lower quantitation limit of 10 ppb

Signatures & Certification

COMPILED BY: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

APPROVED BY: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(Method: GC/MS)

Date of Report: August 27, 1985

Sample Matrix: Water
Location I.D. YMGW-4 DUPLICATE
Date Sampled: August 9, 1985
Date Reported: August 20, 1985

Project Code: Martin Marietta-Bear Cre
Order No. 1790-07-01
Chain of Custody No.: 8508-838-0020 DUPLICATE

Volatile Organic	Detection Limit	Conc. Units ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Other Acetone	"	11

NOTE: ND means Not Detected
<10 means detected but at a level less than the lower quantitation limit of 10 ppb

Signatures & Certification

COMPILED BY: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

APPROVED BY: for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(Method: GC/MS)

Date of Report: August 27, 1985

Sample Matrix: Water
Location I.D. GW-100
Date Sampled: August 9, 1985
Date Reported: August 20, 1985

Project Code: Martin Marietta-Bear Cre
Order No. 1790-07-01
Chain of Custody No.: 8508-838-0030

Volatile Organic	Detection Limit	Conc. Units ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	11
Other Acetone	"	29

NOTE: ND means Not Detected
<10 means detected but at a level less than the lower quantitation limit of 10 ppb

Signatures & Certification

COMPILED BY: [signature]
Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

APPROVED BY: [signature]
for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(Method: GC/MS)

Date of Report: August 27, 1985

Sample Matrix: Water
Location I.D. GW-63
Date Sampled: August 9, 1985
Date Reported: August 20, 1985

Project Code: Martin Marietta-Bear Cre
Order No. 1790-07-01
Chain of Custody No.: 8508-838-0040

Volatile Organic	Detection Limit	Conc. Units ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	<10
Chlorobenzene	"	ND
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	22
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Other Acetone	"	<10

NOTE: ND means Not Detected
<10 means detected but at a level less than the lower quantitation limit of 10 ppb

Signatures & Certification

COMPILED BY: [signature]
Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

APPROVED BY: [signature] for
Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(Method: GC/MS)

Date of Report: August 27, 1985

Sample Matrix: Water
Location I.D. GW-115
Date Sampled: August 9, 1985
Date Reported: August 20, 1985

Project Code: Martin Marietta-Bear Cre
Order No. 1790-07-01
Chain of Custody No.: 8508-838-0050

Volatile Organic	Detection Limit	Conc. Units ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"
Other		
Acetone	"	10

NOTE: ND means Not Detected
<10 means detected but at a level less than the lower quantitation limit of 10 ppb

Signatures & Certification

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Senior Project Scientist
WESTON Analytical Laboratories

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(Method: GC/MS)

Date of Report: August 27, 1985

Sample Matrix: Water
Location I.D. GW-103
Date Sampled: August 9, 1985
Date Reported: August 20, 1985

Project Code: Martin Marietta-Bear Cre
Order No. 1790-07-01
Chain of Custody No.: 8508-838-0060

Volatile Organic	Detection Limit	Conc. Units ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	<10
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	<10
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	<10
Methylene chloride	"	35
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene *	"	690
Toluene	"	<10
Trans-1,2-Dichloroethylene	"	<10
1,1,1-trichloroethane	"	37
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	<10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	46
Other		
Acetone*	"	350
4-Methyl-2-pentanone	"	<10

* = OUT OF CALIBRATION RANGE BUT NOT SATURATED.

NOTE: ND means Not Detected
<10 means detected but at a level less than the lower quantitation limit of 10 ppb

Signatures & Certification

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WESTON Analytical Laboratories

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Manager
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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(Method: GC/MS)

Date of Report: August 27, 1985

Sample Matrix: Water
Location I.D. GW-103 (1:5 DILUTION)
Date Sampled: August 9, 1985
Date Reported: August 20, 1985

Project Code: Martin Marietta-Bear Cre
Order No. 1790-07-01
Chain of Custody No.: 8508-838-0060
(1:5)

Volatile Organic	Detection Limit	Conc. Units ppb(ug/liter)
Acrolein	50 ug/L	
Acrylonitrile	"	
Benzene	"	
Bromoform	"	
Carbon tetrachloride	"	
Chlorobenzene	"	
Chlorodibromomethane	"	
Chloroethane	"	
2-chloroethyl vinyl ether	"	
Chloroform	"	
Dichlorobromomethane	"	
Dichlorodifluoromethane	"	
1,1-Dichloroethane	"	
1,2-Dichloroethane	"	
1,1-Dichloroethylene	"	
1,2-Dichloropropane	"	
Cis-1,3-Dichloropropylene	"	
Trans-1,3-Dichloropropylene	"	
Ethyl benzene	"	
Methyl bromide	"	
Methyl chloride	"	
Methylene chloride	"	
1,1,2,2-tetrachloroethane	"	
Tetrachloroethylene	"	740
Toluene	"	
Trans-1,2-Dichloroethylene	"	
1,1,1-trichloroethane	"	
1,1,2-trichloroethane	"	
Trichloroethylene	"	
Trichlorofluoromethane	"	
Vinyl chloride	"	
Methyl ethyl ketone	"	
Other		
Acetone	"	500

NOTE: ND means Not Detected
<10 means detected but at a level less than the lower quantitation limit of 10 ppb

Signatures & Certification

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Senior Project Scientist
WESTON Analytical Laboratories

APPROVED BY: _____
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Manager
WESTON Analytical Laboratories

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(Method: GC/MS)

Date of Report: August 27, 1985

Sample Matrix: Water
Location I.D. BG-3
Date Sampled: August 9, 1985
Date Reported: August 20, 1985

Project Code: Martin Marietta-Bear Cre
Order No. 1790-07-01
Chain of Custody No.: 8508-838-0070

Volatile Organic	Detection Limit	Conc. Units ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	16
Other Acetone	"	11

NOTE: ND means Not Detected
<10 means detected but at a level less than the lower quantitation limit of 10 ppb

Signatures & Certification

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APPROVED BY: _____
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Manager
WESTON Analytical Laboratories

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(Method: GC/MS)

Date of Report: August 27, 1985

Sample Matrix: Water
Location I.D. GW-101
Date Sampled: August 9, 1985
Date Reported: August 20, 1985

Project Code: Martin Marietta-Bear Cre
Order No. 1790-07-01
Chain of Custody No.: 8508-838 -0080

Volatile Organic	Detection Limit	Conc. Units ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"
Other Acetone	"	10

NOTE: ND means Not Detected
<10 means detected but at a level less than the lower quantitation limit of 10 ppb

Signatures & Certification

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(Method: GC/MS)

Date of Report: August 27, 1985

Sample Matrix: Water
Location I.D. GW-6
Date Sampled: August 11, 1985
Date Reported: August 20, 1985

Project Code: Martin Marietta-Bear Cre
Order No. 1790-07-01
Chain of Custody No.: 8508-838-0100

Volatile Organic	Detection Limit	Conc. Units ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	16
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	<10
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	<10
Tetrachloroethylene	"	29
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	150
1,1,1-trichloroethane	"	10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	15
Trichlorofluoromethane	"	<10
Vinyl chloride	"	15
Methyl ethyl ketone	"	ND
Other Acetone	"	<10

NOTE: ND means Not Detected
<10 means detected but at a level less than the lower quantitation limit of 10 ppb

Signatures & Certification

COMPILED BY: [signature]
Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

APPROVED BY: [signature]
For Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(Method: GC/MS)

Date of Report: August 27, 1985

Sample Matrix: Water
Location I.D. GW-6A/DUPLICATE
Date Sampled: August 11, 1985
Date Reported: August 20, 1985

Project Code: Martin Marietta-Bear Cre
Order No. 1790-07-01
Chain of Custody No.: 8508-838-0110

Volatile Organic	Detection Limit	Conc. Units ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	18
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	<10
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	<10
Tetrachloroethylene	"	33
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	170
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	17
Trichlorofluoromethane	"	<10
Vinyl chloride	"	13
Methyl ethyl ketone	"	25
Other Acetone	"	11

NOTE: ND means Not Detected
<10 means detected but at a level less than the lower quantitation limit of 10 ppb

Signatures & Certification

COMPILED BY: Edward P. McGovern, Ph.D.
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WESTON Analytical Laboratories

APPROVED BY: for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(Method: GC/MS)

Date of Report: August 27, 1985

Sample Matrix: Water
Location I.D. YMGW-2
Date Sampled: August 11, 1985
Date Reported: August 20, 1985

Project Code: Martin Marietta-Bear Cre
Order No. 1790-07-01
Chain of Custody No.: 8508-838-0120

Volatile Organic	Detection Limit	Conc. Units ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	<10
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	11
Other Acetone	"	<10

NOTE: ND means Not Detected
<10 means detected but at a level less than the lower quantitation limit of 10 ppb

Signatures & Certification

COMPILED BY: [signature]
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Senior Project Scientist
WESTON Analytical Laboratories

APPROVED BY: [signature]
Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(Method: GC/MS)

Date of Report: August 27, 1985

Sample Matrix: Water
Location I.D. GW-7
Date Sampled: August 11, 1985
Date Reported: August 20, 1985

Project Code: Martin Marietta-Bear Cree
Order No. 1790-07-01
Chain of Custody No.: 8508-838-0130

Volatile Organic	Detection Limit	Conc. Units ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	16
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	11
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	150
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	400*
1,1,1-trichloroethane	"	11
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	36
Trichlorofluoromethane	"	<10
Vinyl chloride	"	48
Methyl ethyl ketone	"	ND
Other		
Acetone	"	<10

* = ABOVE CALIBRATION RANGE

NOTE: ND means Not Detected
<10 means detected but at a level less than the lower quantitation limit of 10 ppb

Signatures & Certification

COMPILED BY: _____
Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

APPROVED BY: _____
for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-7 (1:5 dilution)
Date Sampled: 8/11/85
Date Reported: 8/21/85

Date of Report: August 27,1985
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No:8508-838-0130 (1:5)

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	50 ug/L	
Acrylonitrile	"	
Benzene	"	
Bromoform	"	
Carbon tetrachloride	"	
Chlorobenzene	"	
Chlorodibromomethane	"	
Chloroethane	"	
2-chloroethyl vinyl ether	"	
Chloroform	"	
Dichlorobromomethane	"	
Dichlorodifluoromethane	"	
1,1-Dichloroethane	"	
1,2-Dichloroethane	"	
1,1-Dichloroethylene	"	
1,2-Dichloropropane	"	
Cis-1,3-Dichloropropylene	"	
Trans-1,3-Dichloropropylene	"	
Ethyl benzene	"	
Methyl bromide	"	
Methyl chloride	"	
Methylene chloride	"	
1,1,2,2-tetrachloroethane	"	
Tetrachloroethylene	"	
Toluene	"	370
Trans-1,2-Dichloroethylene	"	
1,1,1-trichloroethane	"	
1,1,2-trichloroethane	"	
Trichloroethylene	"	
Trichlorofluoromethane	"	
Vinyl chloride	"	
Methyl ethyl ketone	"	

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analtyical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-71
Date Sampled: 8/11/85
Date Reported: 8/20/85

Date of Report: August 27,1985
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-838-0140

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10	ND
Acrylonitrile	"	"
Benzene	"	27
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	11
2-chloroethyl vinyl ether	"	ND
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	350*
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	15
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	<10
Methylene chloride	"	ND
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	1000*
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	56
1,1,1-trichloroethane	"	ND
1,1,2-trichloroethane	"	"
Trichloroethylene	"	1200*
Trichlorofluoromethane	"	ND
Vinyl chloride	"	<10
Methyl ethyl ketone	"	ND
Other		
Acetone	"	35

* Above Calibration Range

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analtyical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitatio limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-71 (1:10 dilution)
Date Sampled: 8/11/85
Date Reported: 8/21/85

Date of Report: August 27,1985
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-838-0140

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	100 ug/L	
Acrylonitrile	"	
Benzene	"	
Bromoform	"	
Carbon tetrachloride	"	
Chlorobenzene	"	
Chlorodibromomethane	"	
Chloroethane	"	
2-chloroethyl vinyl ether	"	
Chloroform	"	
Dichlorobromomethane	"	
Dichlorodifluoromethane	"	340
1,1-Dichloroethane	"	
,2-Dichloroethane	"	
1,1-Dichloroethylene	"	
1,2-Dichloropropane	"	
Cis-1,3-Dichloropropylene	"	
Trans-1,3-Dichloropropylene	"	
Ethyl benzene	"	
Methyl bromide	"	
Methyl chloride	"	
Methylene chloride	"	
1,1,2,2-tetrachloroethane	"	1100
Tetrachloroethylene	"	
Toluene	"	
Trans-1,2-Dichloroethylene	"	
1,1,1-trichloroethane	"	
1,1,2-trichloroethane	"	750
Trichloroethylene	"	
Trichlorofluoromethane	"	
Vinyl chloride	"	
Methyl ethyl ketone	"	

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analtyical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-81
Date Sampled: 8-11-85
Date Reported: 8-21-85

Date of Report: August 27,1985
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-838-0150

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	11
1,1-Dichloroethylene	"	<10
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	300*
1,1,1-trichloroethane	"	ND
1,1,2-trichloroethane	"	"
Trichloroethylene	"	<10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	670*
Methyl ethyl ketone	"	ND
Acetone	"	<10

Signatures & Certification

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Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: _____
Earl M. Hansen, Ph.D.
Manager
WESTON Analtyical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

* Above calibration range

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-81 (1:5 dilution)
Date Sampled: 8-11-85
Date Reported: 8-21-85

Date of Report: August 27,1985
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-838-0150 (1:5 dilution)

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	50 ug/L	
Acrylonitrile	"	
Benzene	"	
Bromoform	"	
Carbon tetrachloride	"	
Chlorobenzene	"	
Chlorodibromomethane	"	
Chloroethane	"	
2-chloroethyl vinyl ether	"	
Chloroform	"	
Dichlorobromomethane	"	
Dichlorodifluoromethane	"	
1,1-Dichloroethane	"	
1,2-Dichloroethane	"	
1,1-Dichloroethylene	"	
1,2-Dichloropropane	"	
Cis-1,3-Dichloropropylene	"	
Trans-1,3-Dichloropropylene	"	
Ethyl benzene	"	
Methyl bromide	"	
Methyl chloride	"	
Methylene chloride	"	
1,1,2,2-tetrachloroethane	"	
Tetrachloroethylene	"	
Toluene	"	
Trans-1,2-Dichloroethylene	"	250*
1,1,1-trichloroethane	"	
1,1,2-trichloroethane	"	
Trichloroethylene	"	
Trichlorofluoromethane	"	
Vinyl chloride	"	780*
Methyl ethyl ketone	"	

Signatures & Certification

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Manager
WESTON Analtyical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

*Above calibration range

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(Method: GC/MS)

Date of Report: August 27, 1985

Sample Matrix: Water
Location I.D. GW-72
Date Sampled: August 11, 1985
Date Reported: August 21, 1985

Project Code: Martin Marietta-Bear Cre
Order No. 1790-07-01
Chain of Custody No.: 8508-838 -0160

Volatile Organic	Detection Limit	Conc. Units ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	"
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Other		

NOTE: ND means Not Detected
<10 means detected but at a level less than the lower quantitation limit of 10 ppb

Signatures & Certification

COMPILED BY: [signature]
Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

APPROVED BY: [signature]
for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(Method: GC/MS)

Date of Report: August 27, 1985

Sample Matrix: Water
Location I.D. BG-12
Date Sampled: August 11, 1985
Date Reported: August 21, 1985

Project Code: Martin Marietta-Bear Cre
Order No. 1790-07-01
Chain of Custody No.: 8508-838-0170

Volatile Organic	Detection Limit	Conc. Units ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	<10
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Other		
Acetone	"	<10

NOTE: ND means Not Detected
<10 means detected but at a level less than the lower quantitation limit of 10 ppb

Signatures & Certification

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Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

APPROVED BY: [signature]
Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG-12 MATRIX SPIKE at 50 ppb
Date Sampled: 8-11-85
Date Reported: 8-21-85

Date of Report: August 27,1985
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-838-0170MS

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene*	"	35 (70% REC.)
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene *	"	46 (92% REC.)
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
,1-Dichloroethylene *	"	58 (116% REC.)
,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene *	"	46 (92% REC.)
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene *	"	34 (68% REC.)
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Acetone	"	10

Signatures & Certification

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WESTON Analtyical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

* Spiking Compounds

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-3
Date Sampled: 8-11-85
Date Reported: 8-21-85

Date of Report: August 27,1985
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-838-0180

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	22
2-chloroethyl vinyl ether	"	ND
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane *	"	1,000 *
1,2-Dichloroethane	"	ND
,1-Dichloroethylene *	"	890 *
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	<10
1,1,1-trichloroethane *	"	420 *
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	49
Methyl ethyl ketone	"	11
Acetone	"	<10

* Out of calibration range

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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WESTON Analytical Laboratories

Approved by: pr Earl M. Hansen, Ph.D.
Manager
WESTON Analtyical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

* Out of Calibration Range

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-3
Date Sampled: 8-11-85
Date Reported: 8-21-85

Date of Report: August 27,1985
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-838-0180/Dilution 1:10

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	100 ug/L	
Acrylonitrile	"	
Benzene	"	
Bromoform	"	
Carbon tetrachloride	"	
Chlorobenzene	"	
Chlorodibromomethane	"	
Chloroethane	"	
2-chloroethyl vinyl ether	"	
Chloroform	"	
Dichlorobromomethane	"	
Dichlorodifluoromethane	"	
1,1-Dichloroethane	"	1,900
1,2-Dichloroethane	"	
,1-Dichloroethylene	"	690
1,2-Dichloropropane	"	
Cis-1,3-Dichloropropylene	"	
Trans-1,3-Dichloropropylene	"	
Ethyl benzene	"	
Methyl bromide	"	
Methyl chloride	"	
Methylene chloride	"	
1,1,2,2-tetrachloroethane	"	
Tetrachloroethylene	"	
Toluene	"	
Trans-1,2-Dichloroethylene	"	
1,1,1-trichloroethane	"	400
1,1,2-trichloroethane	"	
Trichloroethylene	"	
Trichlorofluoromethane	"	
Vinyl chloride	"	
Methyl ethyl ketone	"	

Signatures & Certification

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Manager
WESTON Analtyical Laboratories

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-44
Date Sampled: 8-11-85
Date Reported: 8-21-85

Date of Report: August 27,1985
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-838-0190

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"
Acetone	"	12

Signatures & Certification

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Manager
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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG-14
Date Sampled: 8-11-85
Date Reported: 8-21-85

Date of Report: August 27, 1985
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Cutody No: 8508-838-0200

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	<10
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"
Acetone	"	10
1,1,2-Trichloro-1,2,2-trifluoroethane	"	49

Signatures & Certification

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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-11
Date Sampled: 8-11-85
Date Reported: 8-21-85

Date of Report: August 27,1985
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-838-0210

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	<10
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	14
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	66
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	82
1,1,1-trichloroethane	"	10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	<10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	<10
Methyl ethyl ketone	"	ND
Acetone	"	<10

Signatures & Certification

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WESTON Analytical Laboratories

Approved by: for Earl M. Hansen, Ph.D.
Manager
WESTON Analtyical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-12
Date Sampled: 8-11-85
Date Reported: 8-21-85

Date of Report: August 27, 1985
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Cutody No: 8508-838-0220

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	15
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	20
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	110
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	170
1,1,1-trichloroethane	"	12
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	36
Trichlorofluoromethane	"	ND
Vinyl chloride	"	<10
Methyl ethyl ketone	"	ND
Acetone	"	<10

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG-13
Date Sampled: 8-11-85
Date Reported: 8-21-85

Date of Report: August 27, 1985
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Cutody No: 8508-838-0230

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	100 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	180
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	19
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	87
Toluene	"	<10
Trans-1,2-Dichloroethylene	"	770
1,1,1-trichloroethane	"	72
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	28
Trichlorofluoromethane	"	ND
Vinyl chloride	"	35
Methyl ethyl ketone	"	82
Acetone	"	260
1,2-Dichloro-1,2,2-trifluoroethane	"	1,900
1,1,2-Trichloro-1,2,2-trifluoroethane	"	9,000

Signatures & Certification

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Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG-13 Dup.
Date Sampled: 8-11-85
Date Reported: 8-21-85

Date of Report: August 27, 1985
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Cutody No: 8508-838-0240

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	100 ug/L	ND
Acrylonitrile	"	"
Benzene	"	10
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	170
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	17
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	"
1,1,2,2-tetrachloroethane	"	< 10
Tetrachloroethylene	"	ND
Toluene	"	85
Trans-1,2-Dichloroethylene	"	11
1,1,1-trichloroethane	"	770
1,1,2-trichloroethane	"	73
Trichloroethylene	"	ND
Trichlorofluoromethane	"	27
Vinyl chloride	"	ND
Methyl ethyl ketone	"	37
Acetone	"	78
1,2-Dichloro-1,2,2-trifluoroethane	"	280
1,1,2-Trichloro-1,2,2-trifluoroethane	"	1800
		8,400

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-82
Date Sampled: 8-11-85
Date Reported: 8-21-85

Date of Report: August 27,1985
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-838-0250

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"
Acetone	"	30

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

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Manager
WESTON Analtyical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(Method: GC/MS)

Date of Report: August 27, 1985

Sample Matrix: Water
Location I.D. GW-13
Date Sampled: August 11, 1985
Date Reported: August 22, 1985

Project Code: Martin Marietta-Bear Cree
Order No. 1790-07-01
Chain of Custody No.: 8508-838-0260

Volatile Organic	Detection Limit	Conc. Units ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"
Other		
Acetone	"	13

NOTE: ND means Not Detected
<10 means detected but at a level less than the lower quantitation limit of 10 ppb

Signatures & Certification

COMPILED BY: _____
Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

APPROVED BY: _____
for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(Method: GC/MS)

Date of Report: August 27, 1985

Sample Matrix: Water
Location I.D. FIELD BLANK
Date Sampled: August 9, 1985
Date Reported: August 20, 1985

Project Code: Martin Marietta-Bear Cre
Order No. 1790-07-01
Chain of Custody No.: 8508-838-0090

Volatile Organic	Detection Limit	Conc. Units ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	<10
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Other		
Acetone	"	<10

NOTE: ND means Not Detected
<10 means detected but at a level less than the lower quantitation limit of 10 ppb

Signatures & Certification

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APPROVED BY: for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Trip Blank
Date Sampled: 8-11-85
Date Reported: 8-21-85

Date of Report: August 27,1985
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-838-0270

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	10
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"
Acetone	"	<10

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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Approved by: Earl M. Hansen, Ph.D.
Manager
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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(Method: GC/MS)

Date of Report: August 27, 1985

Sample Matrix: Water
Location I.D. GW-101
Date Sampled: August 9, 1985
Date Reported: August 20, 1985

Project Code: Martin Marietta-Bear Cre
Order No. 1790-07-01
Chain of Custody No.: 8508-838-0080
MATRIX SPIKE

Volatile Organic	Detection Limit	Conc. Units ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene*	"	25 (100% RECOVERY)
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene *	"	21 (84% RECOVERY)
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene *	"	11 (44% RECOVERY)
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene *	"	19 (76% RECOVERY)
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene *	"	24 (96% RECOVERY)
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	14
Other Acetone	"	<10

* = SPIKING COMPOUNDS

NOTE: ND means Not Detected
<10 means detected but at a level less than the lower quantitation limit of 10 ppb

Signatures & Certification

COMPILED BY: [signature]
Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

APPROVED BY: [signature]
for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Lab Spike at 25 ppb
Date Sampled: DNA
Date Reported: 8-21-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-838-Blank Spike

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene *	"	17 (68%)
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene *	"	23 (92%)
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane *	"	28 (112%)
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	"
Toluene *	"	23 (92%)
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene *	"	16 (64%)
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Acetone	"	16

* Spiking compound

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(Method: GC/MS)

Date of Report: August 27, 1985

Sample Matrix: Water
Location I.D. LAB BLANK SPIKE at 50ppb Level
Date Sampled: N/A
Date Reported: August 20, 1985

Project Code: Martin Marietta-Bear Cre
Order No. 1790-07-01
Chain of Custody No.: 8508-838-BLANK SPIKE

Volatile Organic	Detection Limit	Conc. Units ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene *	"	58 (116% RECOVERY)
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene *	"	60 (120% RECOVERY)
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene *	"	28 (56% RECOVERY)
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene *	"	57 (114% RECOVERY)
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene *	"	59 (118% RECOVERY)
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	15
Other Acetone	"	15

* = SPIKING COMPOUNDS

NOTE: ND means Not Detected
<10 means detected but at a level less than the lower quantitation limit of 10 ppb

Signatures & Certification

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WESTON Analytical Laboratories

APPROVED BY: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Lab Spike at 100 ppb
Date Sampled: DNA
Date Reported: 8-21-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-838-Blank Spike

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene *	"	72 (72%)
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene *	"	92 (92%)
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
,1-Dichloroethylene *	"	107 (107%)
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene *	"	91 (91%)
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene *	"	72 (72%)
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	15
Acetone	"	13

* Spiking Compound

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(Method: GC/MS)

Date of Report: August 27, 1985

Sample Matrix: Water
Location I.D. LAB BLANK/0820L812
Date Sampled: N/A
Date Reported: August 20, 1985

Project Code: Martin Marietta-Bear Cre
Order No. 1790-07-01
Chain of Custody No.: 8508-838-BLANK

Volatile Organic	Detection Limit	Conc. Units ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	3
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	9
Other		
Acetone	"	7

NOTE: ND means Not Detected
<10 means detected but at a level less than the lower quantitation limit of 10 ppb

Signatures & Certification

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APPROVED BY: Earl M. Hansen, Ph.D.
Manager
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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(Method: GC/MS)

Date of Report: August 27, 1985

Sample Matrix: WATER
Location I.D. LAB BLANK/0821L831
Date Sampled: DNA
Date Reported: August 21, 1985

Project Code: MARTIN MARIETTA-BEAR CREI
Order No. 1790-07-01
Chain of Custody No.: 8508-838-BLANK

Volatile Organic	Detection Limit	Conc. Units ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	13
Other		
Acetone	"	12

NOTE: ND means Not Detected
<10 means detected but at a level less than the lower quantitation limit of 10 ppb

Signatures & Certification

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APPROVED BY: _____
Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(Method: GC/MS)

Date of Report: August 27, 1985

Sample Matrix: WATER
Location I.D. Lab Blank / 0821L842
Date Sampled: DNA
Date Reported: August 21, 1985

Project Code: MARTIN MARIETTA-BEAR CREE
Order No. 1790-07-01
Chain of Custody No.: 8508-838-BLANK

Volatile Organic	Detection Limit	Conc. Units ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"
Other		
Acetone	"	19

NOTE: ND means Not Detected
<10 means detected but at a level less than the lower quantitation limit of 10 ppb

Signatures & Certification

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APPROVED BY: Earl M. Hansen, Ph.D.
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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-83
Date Sampled: 8/12/85
Date Reported: 8/21/85

Date of Report: 9/18/85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-839-0010

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"
Acetone	"	11

Signatures & Certification

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Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-97
Date Sampled: 8/12/85
Date Reported: 8/21/85

Date of Report: 9/18/85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-839-0020

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	15
2-chloroethyl vinyl ether	"	ND
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	19
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	26
1,1,1-trichloroethane	"	ND
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	15
Methyl ethyl ketone	"	ND
Acetone	"	<10

Signatures & Certification

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Manager
WESTON Analytical Laboratories

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-98
Date Sampled: 8/12/85
Date Reported: 8/21/85

Date of Report: 9/18/85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-839-0030

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	<10
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	<10
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	<10
1,1,1-trichloroethane	"	ND
1,1,2-trichloroethane	"	<10
Trichloroethylene	"	10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	"
Acetone	"	<10

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-87
Date Sampled: 8-12-85
Date Reported: 8-26-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-839-0040

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	<10
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	110
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	<10
1,2-Dichloroethane	"	33
1,1-Dichloroethylene	"	<10
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	640 *
Toluene	"	<10
Trans-1,2-Dichloroethylene	"	110
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	10
Trichloroethylene	"	810 *
Trichlorofluoromethane	"	25
Vinyl chloride	"	<10
Methyl ethyl ketone	"	
Acetone		<10

* Above calibration range (see dilution)

Signatures & Certification

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-87 (Dil)
Date Sampled: 8-12-85
Date Reported: 8-26-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-839-0040
(Dil : 5x)

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	50 ug/L	
Acrylonitrile	"	
Benzene	"	
Bromoform	"	
Carbon tetrachloride	"	
Chlorobenzene	"	
Chlorodibromomethane	"	
Chloroethane	"	
2-chloroethyl vinyl ether	"	
Chloroform	"	
Dichlorobromomethane	"	
Dichlorodifluoromethane	"	
1,1-Dichloroethane	"	
1,2-Dichloroethane	"	
1,1-Dichloroethylene	"	
1,2-Dichloropropane	"	
Cis-1,3-Dichloropropylene	"	
Trans-1,3-Dichloropropylene	"	
Ethyl benzene	"	
Methyl bromide	"	
Methyl chloride	"	
Methylene chloride	"	
1,1,2,2-tetrachloroethane	"	
Tetrachloroethylene	"	580
Toluene	"	
Trans-1,2-Dichloroethylene	"	
1,1,1-trichloroethane	"	
1,1,2-trichloroethane	"	
Trichloroethylene	"	840
Trichlorofluoromethane	"	
Vinyl chloride	"	
Methyl ethyl ketone	"	

Signatures & Certification

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-84
Date Sampled: 8-12-85
Date Reported: 8-26-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-839-0050

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Acetone	"	<10

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Manager
WESTON Analytical Laboratories

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-95
Date Sampled: 8-12-85
Date Reported: 8-26-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-839-0060

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	10
Acetone	"	<10

Signatures & Certification

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-46
Date Sampled: 8-12-85
Date Reported: 8-26-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-839-0070

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	17
Bromoform	"	18
Carbon tetrachloride	"	ND
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	23
2-chloroethyl vinyl ether	"	ND
Chloroform	"	24
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	99
1,2-Dichloroethane	"	17
1,1-Dichloroethylene	"	29
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	40
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	340 *
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	870 *
1,1,1-trichloroethane	"	250 *
1,1,2-trichloroethane	"	<10
Trichloroethylene	"	160
Trichlorofluoromethane	"	16
Vinyl chloride	"	420 *
Methyl ethyl ketone	"	17
Acetone	"	13

* Above calibration range (see dilution)

Signatures & Certification

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Manager
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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-95
Date Sampled: 8-12-85
Date Reported: 8-26-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-839-0070
(1:10 dilution)

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	100 ug/L	
Acrylonitrile	"	
Benzene	"	
Bromoform	"	
Carbon tetrachloride	"	
Chlorobenzene	"	
Chlorodibromomethane	"	
Chloroethane	"	
2-chloroethyl vinyl ether	"	
Chloroform	"	
Dichlorobromomethane	"	
Dichlorodifluoromethane	"	
1,1-Dichloroethane	"	
1,2-Dichloroethane	"	
1,1-Dichloroethylene	"	
1,2-Dichloropropane	"	
Cis-1,3-Dichloropropylene	"	
Trans-1,3-Dichloropropylene	"	
Ethyl benzene	"	
Methyl bromide	"	
Methyl chloride	"	
Methylene chloride	"	
1,1,2,2-tetrachloroethane	"	
Tetrachloroethylene	"	280
Toluene	"	
Trans-1,2-Dichloroethylene	"	720
1,1,1-trichloroethane	"	210
1,1,2-trichloroethane	"	
Trichloroethylene	"	
Trichlorofluoromethane	"	
Vinyl chloride	"	390
Methyl ethyl ketone	"	

Signatures & Certification

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-68
Date Sampled: 8-12-85
Date Reported: 8-26-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creel
Order No: 1790-07-01
Chain of Custody No: 8508-839-0080

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	<10
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	170
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	35
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	"
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	37
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	280 *
1,1,1-trichloroethane	"	38
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	190
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	16
Acetone	"	20

* Out of calibration range (see dilution)

Signatures & Certification

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitatior limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-68
Date Sampled: 8-12-85
Date Reported: 8-26-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-839-0080
(1:10 dilution)

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	100 ug/L	
Acrylonitrile	"	
Benzene	"	
Bromoform	"	
Carbon tetrachloride	"	
Chlorobenzene	"	
Chlorodibromomethane	"	
Chloroethane	"	
2-chloroethyl vinyl ether	"	
Chloroform	"	
Dichlorobromomethane	"	
Dichlorodifluoromethane	"	
1,1-Dichloroethane	"	
1,2-Dichloroethane	"	
1,1-Dichloroethylene	"	
1,2-Dichloropropane	"	
Cis-1,3-Dichloropropylene	"	
Trans-1,3-Dichloropropylene	"	
Ethyl benzene	"	
Methyl bromide	"	
Methyl chloride	"	
Methylene chloride	"	
1,1,2,2-tetrachloroethane	"	
Tetrachloroethylene	"	
Toluene	"	
Trans-1,2-Dichloroethylene	"	280
1,1,1-trichloroethane	"	
1,1,2-trichloroethane	"	
Trichloroethylene	"	
Trichlorofluoromethane	"	
Vinyl chloride	"	
Methyl ethyl ketone	"	

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG-6
Date Sampled: 8-12-85
Date Reported: 8-26-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-839-0090

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	<10
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	14
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	<10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	"
Acetone	"	12

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG-2
Date Sampled: 8-12-85
Date Reported: 8-26-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-839-0100

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	<10
Methylene chloride	"	ND
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	11
Acetone	"	<10

Signatures & Certification

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG-2 Duplicate
Date Sampled: 8-12-85
Date Reported: 8-26-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-839-0110

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Acetone	"	<10

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-62
Date Sampled: 8-12-85
Date Reported: 8-26-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-839-0120

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	<10
Chlorobenzene	"	ND
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	<10
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	<10
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	60
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	11
Acetone	"	<10

Signatures & Certification

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Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Leslie Eng for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-62 Duplicate
Date Sampled: 8-12-85
Date Reported: 8-26-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-839-0130
Dup of GW-62

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	<10
Chlorobenzene	"	ND
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	<10
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	<10
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	60
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	"
Acetone	"	<10

Signatures & Certification

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Approved by: Leslie Ey for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-64
Date Sampled: 8-12-85
Date Reported: 8-26-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-839-0140
(1:5 dilution)

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	50 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	<50
Chlorobenzene	"	ND
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	<50
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<50
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	115
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	<50
Acetone	"	<50

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG-5
Date Sampled: 8-12-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-839-0150

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	<10
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	<10
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Acetone	"	<10

Signatures & Certification

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Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitatio limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-47
Date Sampled: 8-12-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-839-0170

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	11
Acetone	"	<10

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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WESTON Analytical Laboratories

Approved by: for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-47 Duplicate
Date Sampled: 8-12-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-839-0170 Duplicate

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	"
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	10
Acetone	"	<10

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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Manager
WESTON Analytical Laboratories

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Field Blank
Date Sampled: 8-12-85
Date Reported: 8-21-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-839-0180

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	10
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"
Acetone	"	<10

Signatures & Certification

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WESTON Analytical Laboratories

Approved by: for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Trip Blank
Date Sampled: 8-14-85
Date Reported: 8-21-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-839-0190

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	10
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"
Acetone	"	<10

Signatures & Certification

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WESTON Analytical Laboratories

Approved by: Leslie Ey for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-95
Date Sampled: DNA
Date Reported: 8-26-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-839-0060 (25 ppt Matrix Spike

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene **	"	34 (136%)
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene **	"	30 (120%)
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane **	"	32 (128%)
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene **	"	30 (120%)
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene **	"	33 (132%)
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	15
Acetone	"	10

** = Spiking Compounds

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG-6 MS (50 ppb)
Date Sampled: DNA
Date Reported: 8-26-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-839-0090
Matrix Spike

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene **	"	55 (110%)
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene **	"	48 (96%)
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene **	"	55 (110%)
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	15
Toluene **	"	47 (94%)
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene **	"	54 (108%)
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	15
Acetone	"	10

** = Spiking Compound

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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Approved by: for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Lab Blank
Date Sampled: 8/12/85
Date Reported: 8/22/85

Date of Report: 9/18/85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Cutody No: 8508-839-Blank

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	<10
Methylene chloride	"	ND
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	10
Acetone	"	<10

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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Manager
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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Lab Blank
Date Sampled: N/A
Date Reported: 8/26/85

Date of Report: September 18, 1985
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Cutody No: 8508-839-Blank

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	ND
Benzene	"	ND
Bromoform	"	ND
Carbon tetrachloride	"	ND
Chlorobenzene	"	ND
Chlorodibromomethane	"	ND
Chloroethane	"	ND
2-chloroethyl vinyl ether	"	ND
Chloroform	"	ND
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	ND
1,1-Dichloroethane	"	ND
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	ND
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	ND
Trans-1,3-Dichloropropylene	"	ND
Ethyl benzene	"	ND
Methyl bromide	"	ND
Methyl chloride	"	ND
Methylene chloride	"	< 10
1,1,2,2-tetrachloroethane	"	< 10
Tetrachloroethylene	"	< 10
Toluene	"	< 10
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	ND
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	ND
Trichlorofluoromethane	"	ND
Vinyl chloride	"	ND
Methyl ethyl ketone	"	25
Acetone	"	15

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: for Earl M. Hansen, PH.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.:
Date Sampled: N/A
Date Reported: 8/26/85

Date of Report: 9/18/85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Cutody No: 8508-839-Blank Spike (25 ppb)

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	33 (132%)
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	28 (112%)
Chloroethane	"	ND
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	29 (116%)
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	28 (112%)
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	32 (128%)
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	17
Acetone	"	16

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Lab Blank
Date Sampled: N/A
Date Reported: 8-21-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-839-Blank

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"
Acetone	"	11

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitati limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Blank Spike (50 ppb)
Date Sampled: N/A
Date Reported: 8/26/85

Date of Report: 9/18/85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-839-Blank Spike

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	63 (126%)
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	55 (110%)
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	60 (120%)
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	56 (112%)
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	62 (124%)
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	19
Acetone	"	<10

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: 100 ppb
Date Sampled: N/A
Date Reported: 8-26-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-839-Blank Spike

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene **	"	96 (96%)
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene **	"	83 (83%)
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene **	"	111 (111%)
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene **	"	85 (85%)
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene **	"	85 (85%)
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	20
Acetone	"	<10

** = Spiking Compound

Signatures & Certification

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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratorie

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitati limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-58
Date Sampled: 8-13-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-0010

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Acetone	"	<10

Signatures & Certification

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WESTON Analytical Laboratories

Approved by: Leslie Eng for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-0030

le Matrix: Water
tion I.D.: GW-75
e Sampled: 8-13-85
e Reported: 8-22-85

ATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
crolein	10 µg/L	ND
crylonitrile	"	"
enzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	<10
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	<10
1,1-Dichloroethane	"	ND
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	<10
Ethyl benzene	"	ND
Methyl bromide	"	<10
Methyl chloride	"	ND
Methylene chloride	"	24
1,1,2,2-tetrachloroethane	"	<10
Tetrachloroethylene	"	ND
Toluene	"	<10
Trans-1,2-Dichloroethylene	"	<10
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	<10
Trichlorofluoromethane	"	
Vinyl chloride	"	
Methyl ethyl ketone		
Acetone		

Signatures & Certification

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Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Labo

...ected. <10 means detected but a level less than the lower qua

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-75
Date Sampled: 8-13-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-0030 Duplicate

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	<10
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	<10
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	22
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	<10
Trichlorofluoromethane	"	<10
Vinyl chloride	"	<10
Methyl ethyl ketone	"	<10
Acetone	"	<10

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-56
Date Sampled: 8-13-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-0040

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	<10
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	12
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	<10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Acetone	"	<10

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-42
Date Sampled: 8-13-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-0050

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	<10
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	"
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	170
Toluene	"	15
Trans-1,2-Dichloroethylene	"	<10
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	<10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	"

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-78
Date Sampled: 8-13-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-0060

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Acetone	"	11

Signatures & Certification

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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW - 74
Date Sampled: 8-13-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-0070

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Acetone	"	<10

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW - 74 with 25 ppb
Date Sampled: DNA
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-0070 Matrix Spike

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene **	"	24 (96%)
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene **	"	29 (116%)
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene **	"	27 (108%)
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene **	"	28 (112%)
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene **	"	21 (84%)
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	14
Acetone	"	<10

** = Spiking Compounds

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG = 11
Date Sampled: 8-13-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-0080

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	75
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	19
1,1,1-trichloroethane	"	ND
1,1,2-trichloroethane	"	"
Trichloroethylene	"	<10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	<10
Methyl ethyl ketone	"	ND
Acetone	"	<10

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG-4
Date Sampled: 8-13-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-0090

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	46
Bromoform	"	<10
Carbon tetrachloride	"	ND
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	<10
2-chloroethyl vinyl ether	"	ND
Chloroform	"	150
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane *	"	560
1,2-Dichloroethane	"	31
1,1-Dichloroethylene *	"	270
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride *	"	240
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene *	"	2000
Toluene	"	<10
Trans-1,2-Dichloroethylene*	"	2900
1,1,1-trichloroethane *	"	310
1,1,2-trichloroethane	"	<10
Trichloroethylene *	"	1200
Trichlorofluoromethane	"	ND
Vinyl chloride *	"	3400
Methyl ethyl ketone	"	38
Acetone	"	34
Carbon Disulfide	"	<10
Xylenes	"	<10

Signatures & Certification

*above calibration range (see dilution)

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG-4
Date Sampled: 8-13-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-0090
Dilution (1X)

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	1000 µg/L	
Acrylonitrile	"	
Benzene	"	
Bromoform	"	
Carbon tetrachloride	"	
Chlorobenzene	"	
Chlorodibromomethane	"	
Chloroethane	"	
2-chloroethyl vinyl ether	"	
Chloroform	"	
Dichlorobromomethane	"	
Dichlorodifluoromethane	"	
1,1-Dichloroethane	"	<1000
1,2-Dichloroethane	"	
1,1-Dichloroethylene	"	<1000
1,2-Dichloropropane	"	
Cis-1,3-Dichloropropylene	"	
Trans-1,3-Dichloropropylene	"	
Ethyl benzene	"	
Methyl bromide	"	
Methyl chloride	"	
Methylene chloride	"	<1000
1,1,2,2-tetrachloroethane	"	
Tetrachloroethylene	"	7900
Toluene	"	
Trans-1,2-Dichloroethylene *	"	36000
1,1,1-trichloroethane	"	<1000
1,1,2-trichloroethane	"	
Trichloroethylene	"	3200
Trichlorofluoromethane	"	
Vinyl chloride	"	7800
Methyl ethyl ketone	"	

*above calibration range but not saturated

Signatures & Certification

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG-15
Date Sampled: 8-13-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-0100

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	<10
2-chloroethyl vinyl ether	"	ND
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"
Acetone	"	<10

Signatures & Certification

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG-8
Date Sampled: 8-13-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-0110

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	18
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Acetone	"	<10

Signatures & Certification

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG-17(or 7)
Date Sampled: 8-13-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-0120

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	<10
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	<10
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	1200*
Toluene	"	<10
Trans-1,2-Dichloroethylene	"	200
1,1,1-trichloroethane	"	20
1,1,2-trichloroethane	"	<10
Trichloroethylene	"	35
Trichlorofluoromethane	"	<10
Vinyl chloride	"	<10
Methyl ethyl ketone	"	13
Acetone	"	<10

*Above calibration range

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG-17(or 7) Duplicate
Date Sampled: 8-13-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-0130

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	100 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<100
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	1400
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	160
1,1,1-trichloroethane	"	<100
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	<100
Trichlorofluoromethane	"	ND
Vinyl chloride	"	<100
Methyl ethyl ketone	"	140
Acetone	"	<100

Signatures & Certification

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Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Field Blank
Date Sampled: 8-13-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-0150

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	11
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	10
Acetone	"	<10

Signatures & Certification

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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-43
Date Sampled: 8-13-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-0160

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Acetone	"	<10

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-43
Date Sampled: 8-13-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-0160 Duplicate

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Acetone	"	<10

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Trip Blank
Date Sampled: 8-13-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-0170

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	11
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	12
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Acetone	"	<10

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
Manager
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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Lab Blank
Date Sampled: 8-13-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-Blank #1

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	10
Acetone	"	<10

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Lab Blank
Date Sampled: 8-13-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-Blank #2

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	11
Acetone	"	<10

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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Approved by: Earl M. Hansen, Ph.D.
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WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

ample Matrix: Water
ocation I.D.: Lab Blank
ate Sampled: N/A
ate Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-Blank #3

OLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
crolein	10 µg/L	ND
crylonitrile	"	"
enzene	"	"
romoform	"	"
arbon tetrachloride	"	"
nlorobenzene	"	"
hlorodibromomethane	"	"
nloroethane	"	"
-chloroethyl vinyl ether	"	"
hloroform	"	"
ichlorobromomethane	"	"
ichlorodifluoromethane	"	"
,1-Dichloroethane	"	"
,2-Dichloroethane	"	"
-Dichloroethylene	"	"
-Dichloropropane	"	"
is-1,3-Dichloropropylene	"	"
rans-1,3-Dichloropropylene	"	"
thyl benzene	"	"
ethyl bromide	"	"
ethyl chloride	"	"
ethylene chloride	"	<10
,1,2,2-tetrachloroethane	"	ND
etrachloroethylene	"	"
oluene	"	"
rans-1,2-Dichloroethylene	"	"
,1,1-trichloroethane	"	"
,1,2-trichloroethane	"	"
richloroethylene	"	"
richlorofluoromethane	"	"
inyl chloride	"	"
ethyl ethyl ketone	"	"
cetone	"	<10

gnatures & Certification

ompiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: 50 ppb
Date Sampled: DNA
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-Blank Spike

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene **	"	54 (108%)
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene **	"	60 (120%)
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene **	"	54 (108%)
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene **	"	58 (116%)
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene **	"	48 (96%)
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	18
Acetone	"	11

** = spiking compounds

Signatures & Certification

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: at 100 ppb
Date Sampled: N/A
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-Blank Spike

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene **	"	111 (111%)
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene **	"	126 (126%)
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene **	"	128 (128%)
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene **	"	127 (127%)
Trans-1,2-Dichloroethylene	"	<10
1,1,1-trichloroethane	"	ND
1,1,2-trichloroethane	"	"
Trichloroethylene **	"	100 (100%)
Trichlorofluoromethane	"	ND
Vinyl chloride	"	<10
Methyl ethyl ketone	"	22
Acetone	"	<10

* = spiking compounds

Signatures & Certification

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: 50 ppb on GW-78
Date Sampled: DNA
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-843-0060 Matrix Spi

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene**	"	50 (100%)
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene **	"	61 (122%)
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene **	"	59 (118%)
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene **	"	63 (126%)
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene **	"	42 (84%)
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	15
Acetone	"	<10

** = Spiking Compounds

Signatures & Certification

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-94
Date Sampled: 8-14-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-0010

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Acetone	"	<10

Signatures & Certification

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-60
Date Sampled: 8-14-85
Date Reported: 8-23-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-0020

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	110
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	240
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	<10
Trans-1,2-Dichloroethylene	"	<10
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	<10
Trichloroethylene	"	10
Trichlorofluoromethane	"	<10
Vinyl chloride	"	ND
Methyl ethyl ketone	"	160
Acetone	"	71
Carbon disulfide	"	<10
2-Hexanone	"	<10
4-Methyl-2-pentanone	"	<10

Signatures & Certification

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: 25 ppb
Date Sampled: DNA
Date Reported: 8-23-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-0020
Matrix Spike

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene **	"	23 (92%)
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene **	"	22 (88%)
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	100
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene **	"	23 (92%)
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	217
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene **	"	27 (96%)
Trans-1,2-Dichloroethylene	"	<10
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	31 (84%)
Trichlorofluoromethane	"	<10
Vinyl chloride	"	ND
Methyl ethyl ketone	"	150
Acetone	"	68
Carbon disulfide	"	<10
4-Methyl-2-pentanone	"	<10
Mixed Xylenes	"	<10

Signatures & Certification

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** = Spiking Compounds

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-54
Date Sampled: 8-14-85
Date Reported: 8-23-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-0030

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	<10
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	115
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	230
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	<10
Trans-1,2-Dichloroethylene	"	<10
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	13
Trichlorofluoromethane	"	<10
Vinyl chloride	"	ND
Methyl ethyl ketone	"	100
Acetone	"	70
Carbon disulfide	"	<10
4-Methyl-2-pentanone	"	<10

Signatures & Certification

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WESTON Analytical Laboratories

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Manager
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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-54
Date Sampled: 8-14-85
Date Reported: 8-23-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-0030 DUPLICATE

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	100 ug/L	
Acrylonitrile	"	
Benzene	"	
Bromoform	"	
Carbon tetrachloride	"	
Chlorobenzene	"	
Chlorodibromomethane	"	
Chloroethane	"	
2-chloroethyl vinyl ether	"	
Chloroform	"	110
Dichlorobromomethane	"	
Dichlorodifluoromethane	"	
1,1-Dichloroethane	"	
1,2-Dichloroethane	"	
,1-Dichloroethylene	"	
1,2-Dichloropropane	"	
Cis-1,3-Dichloropropylene	"	
Trans-1,3-Dichloropropylene	"	
Ethyl benzene	"	
Methyl bromide	"	
Methyl chloride	"	
Methylene chloride	"	250
1,1,2,2-tetrachloroethane	"	
Tetrachloroethylene	"	
Toluene	"	
Trans-1,2-Dichloroethylene	"	
1,1,1-trichloroethane	"	
1,1,2-trichloroethane	"	
Trichloroethylene	"	
Trichlorofluoromethane	"	
Vinyl chloride	"	
Methyl ethyl ketone	"	240
Acetone		270

Signatures & Certification

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-80
Date Sampled: 8-14-85
Date Reported: 8-23-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-0040

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	25
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	10
Acetone	"	12

Signatures & Certification

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-77
Date Sampled: 8-14-85
Date Reported: 8-23-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-0050
DILUTION 1X

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	<10
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	12
Acetone	"	<10

Signatures & Certification

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-77
Date Sampled: 8-14-85
Date Reported: 8-23-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-0050
Dilution 5X

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	50 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	18

Signatures & Certification

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WESTON Analytical Laboratories

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Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-29
Date Sampled: 8-14-85
Date Reported: 8-23-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No:8508-855-0060

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	1,000 ug/L	ND
Acrylonitrile	"	"
Benzene	"	<1,000
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	3,700
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	4,200
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	1,200
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	39,000
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	73,000
1,1,1-trichloroethane	"	23,000
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	31,000
Trichlorofluoromethane	"	3,600
Vinyl chloride	"	4,400
Methyl ethyl ketone	"	2,200
Acetone	"	1,000

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-29
Date Sampled: 8-14-85
Date Reported: 8-23-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-0060 DUPLICATE

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10,000 ug/L	ND
Acrylonitrile	"	"
Benzene	"	<10,000
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	<10,000
1,2-Dichloroethane	"	ND
,1-Dichloroethylene	"	<10,000
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10,000
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	26,000
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	87,000
1,1,1-trichloroethane	"	22,000
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	31,000
Trichlorofluoromethane	"	<10,000
Vinyl chloride	"	<10,000
Methyl ethyl ketone	"	14,000
Acetone	"	<10,000

Signatures & Certification

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WESTON Analytical Laboratories

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Manager
WESTON Analytical Laboratories

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-96
Date Sampled: 8-14-85
Date Reported: 8-23-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-0070

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	<10
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	11
Toluene	"	<10
Trans-1,2-Dichloroethylene	"	10
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	<10
Trichlorofluoromethane	"	<10
Vinyl chloride	"	ND
Methyl ethyl ketone	"	12
Acetone		<10

Signatures & Certification

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-57
Date Sampled: 8-14-85
Date Reported: 8-23-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-0080

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	<10
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	<10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	11
Acetone	"	<10

Signatures & Certification

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-57A
Date Sampled: 8-14-85
Date Reported: 8-23-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-0090

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	<10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	16
Acetone	"	<10

Signatures & Certification

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-57A
Date Sampled: 8-14-85
Date Reported: 8-23-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-0090 Duplicate

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	11
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	<10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	24

Signatures & Certification

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Approved by: _____
Earl M. Hansen, Ph.D.
Manager
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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG-18
Date Sampled: 8-14-85
Date Reported: 8-23-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-0110

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	19
Acrylonitrile	"	ND
Benzene	"	190
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	58
2-chloroethyl vinyl ether	"	ND
Chloroform	"	120
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	890
1,2-Dichloroethane	"	110
,1-Dichloroethylene	"	800
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	<10
Trans-1,3-Dichloropropylene	"	ND
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	230
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	1,300
Toluene	"	<10
Trans-1,2-Dichloroethylene	"	2,900
1,1,1-trichloroethane	"	1,100
1,1,2-trichloroethane	"	44
Trichloroethylene	"	1,200
Trichlorofluoromethane	"	110
Vinyl chloride	"	4,100
Methyl ethyl ketone	"	19
Acetone	"	<10
Xylenes	"	<10

Signatures & Certification

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Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG-18
Date Sampled: 8-14-85
Date Reported: 8-23-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-0110 DUPLICATE

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	1,000 ug/L	ND
Acrylonitrile	"	"
Benzene	"	<1,000
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	1,600
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	<1,000
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<1,000
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	1,600
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	25,000
1,1,1-trichloroethane	"	1,300
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	1,300
Trichlorofluoromethane	"	<1,000
Vinyl chloride	"	4,800
Methyl ethyl ketone	"	1,100
Acetone	"	<1,000

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
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WESTON Analytical Laboratories

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG-7
Date Sampled: 8-14-85
Date Reported: 8-23-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-0120

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	<10
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	<10
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	<10
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	"
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	660
Toluene	"	42
Trans-1,2-Dichloroethylene	"	180
1,1,1-trichloroethane	"	ND
1,1,2-trichloroethane	"	"
Trichloroethylene	"	140
Trichlorofluoromethane	"	<10
Vinyl chloride	"	ND
Methyl ethyl ketone	"	10

Signatures & Certification

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Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG-7
Date Sampled: 8-14-85
Date Reported: 8-23-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-0120 Duplicate

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	100 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	<100
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<100
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	650
Toluene	"	<100
Trans-1,2-Dichloroethylene	"	200
1,1,1-trichloroethane	"	ND
1,1,2-trichloroethane	"	"
Trichloroethylene	"	130
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	120
Acetone	"	<100

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WESTON Analytical Laboratories

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG-16
Date Sampled: 8-14-85
Date Reported: 8-23-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-0130

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	<10
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	<10
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	10
Acetone	"	<10

Signatures & Certification

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Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: TRIP BLANK
Date Sampled: 8-14-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-0140

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	11
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	10
Acetone	"	<10

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

OTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: FIELD BLANK
Date Sampled: 8-14-85
Date Reported: 8-22-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-0150

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	10
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	<10
Vinyl chloride	"	ND
Methyl ethyl ketone	"	<10
Acetone	"	<10

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: LAB BLANK
Date Sampled: DNA
Date Reported: 8-23-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-LAB BLANK

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	11
Acetone	"	12

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: LAB BLANK
Date Sampled: DNA
Date Reported: 8-23-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855/BLANK #1

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"
Acetone	"	<10

Signatures & Certification

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Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitatic limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: LAB BLANK
Date Sampled: DNA
Date Reported: 8-23-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-BLANK #2

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	11
Acetone	"	<10

Signatures & Certification

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Manager
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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: 50 ppb
Date Sampled: DNA
Date Reported: 8-23-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-Blank Spike

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene **	"	54 (108%)
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene **	"	60 (120%)
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene **	"	54 (108%)
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene **	"	58 (116%)
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene **	"	48 (96%)
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	18
Acetone	"	11

** = Spiking Compounds

Signatures & Certification

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Manager
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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: LAB SPIKE AT 100 ppb
Date Sampled: DNA
Date Reported: 8-23-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-Blank Spike

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene **	"	96 (96% REC.)
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene **	"	86 (86% REC.)
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene **	"	96 (96% REC.)
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene **	"	97 (97% REC.)
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene **	"	89 (89% REC.)
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	30
Acetone	"	64

** = Spiking Compounds

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: 50 ppb
Date Sampled: DNA
Date Reported: 8-23-85

Date of Report: 9-18-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-855-0040
Matrix Spike

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene **	"	51 (102%)
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene **	"	46 (92%)
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene **	"	47 (94%)
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	22
Toluene **	"	51 (102%)
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene **	"	45 (90%)
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	16
Acetone	"	<10

** = Spiking compounds

Signatures & Certification

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Manager
WESTON Analytical Laboratories

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-105
Date Sampled: 8-15-85
Date Reported: 8-27-85

Date of Report: 8-27-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-860-0010

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	<10
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	<10
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	<10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Carbon Disulfide	"	<10
Acetone	"	<10

Signatures & Certification

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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-106
Date Sampled: 8/15/85
Date Reported: 8/26/85

Date of Report: 8/27/85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-860-0020

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	<10
Methylene chloride	"	ND
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	<10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	16
Methyl ethyl ketone	"	<10
Acetone		

Signatures & Certification

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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: 6W 107
Date Sampled: 8/15/85
Date Reported: 8/27/85

Date of Report: 8/27/85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-860-0030

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	11
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	<10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Carbon Disulfide	"	11

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-108
Date Sampled: 8/15/85
Date Reported: 8/27/85

Date of Report: 8/27/85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-860-0040

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	12
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	16
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	28
Acetone	"	110

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: 6W-109
Date Sampled: 8/15/85
Date Reported: 8/28/85

Date of Report: 8/27/85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-860-0050

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	19
Carbon tetrachloride	"	ND
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	18
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	<10
Methyl bromide	"	ND
Methyl chloride	"	42
Methylene chloride	"	"
1,1,2,2-tetrachloroethane	"	95
Tetrachloroethylene	"	<10
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	13
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	"
Acetone	"	96
Carbon Disulfide	"	14

Signatures & Certification

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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratorie

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitati limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-24
Date Sampled: 8-15-85
Date Reported: 8-27-85

Date of Report: 8-27-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-860-0060

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	850
Acrylonitrile	"	ND
Benzene	"	34
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	1300
2-chloroethyl vinyl ether	"	ND
Chloroform	"	14
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	86
1,1-Dichloroethylene	"	3500
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	2000
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	710
Toluene	"	<10
Trans-1,2-Dichloroethylene	"	2500
1,1,1-trichloroethane	"	2900
1,1,2-trichloroethane	"	140
Trichloroethylene	"	440
Trichlorofluoromethane	"	11
Vinyl chloride	"	4500
Methyl ethyl ketone	"	15
Carbon Disulfide	"	<10

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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Manager
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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-24 (1:1000 dilution)
Date Sampled: 8-15-85
Date Reported: 8-27-85

Date of Report: 8-27-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-860-0060 (Dil)

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10,000 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	<10,000
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10,000
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	<10,000
1,1,1-trichloroethane	"	11,000
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	<10,000
Methyl ethyl ketone	"	ND

Signatures & Certification

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Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-28
Date Sampled: 8-15-85
Date Reported: 8-27-85

Date of Report: 8-27-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-860-0070

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	<10
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	12
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-28
Date Sampled: 8-15-85
Date Reported: 8-27-85

Date of Report: 8-27-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-860-0070 DUP

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10

Signatures & Certification

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-39
Date Sampled: 8/15/85
Date Reported: 8/27/95

Date of Report: 8/27/85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-860-0080

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	290
Acrylonitrile	"	78
Benzene	"	11
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	11
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	2100
1,2-Dichloroethane	"	150
1,1-Dichloroethylene	"	4800
1,2-Dichloropropane	"	<10
Cis-1,3-Dichloropropylene	"	ND
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	240
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	71
Toluene	"	21
Trans-1,2-Dichloroethylene	"	2800
1,1,1-trichloroethane	"	2600
1,1,2-trichloroethane	"	220
Trichloroethylene	"	110
Trichlorofluoromethane	"	67
Vinyl chloride	"	1300
Methyl ethyl ketone	"	17
Acetone	"	16

Signatures & Certification

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-39 (Duplicate (1:100ml)
Date Sampled: 8/15/85
Date Reported: 8/27/85

Date of Report: 8/27/85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-860-0080 Dup.

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	1000 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	12000
1,2-Dichloroethane	"	<1000
1,1-Dichloroethylene	"	13000
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	<1000
Methylene chloride	"	ND
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	4100
1,1,1-trichloroethane	"	3600
1,1,2-trichloroethane	"	<1000
Trichloroethylene	"	ND
Trichlorofluoromethane	"	"
Vinyl chloride	"	<1000
Methyl ethyl ketone	"	ND

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-20
Date Sampled: 8/15/85
Date Reported: 8/27/85

Date of Report: 8/27/85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-860-0090

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	96
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	320
2-chloroethyl vinyl ether	"	ND
Chloroform	"	110
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	1300
1,2-Dichloroethane	"	95
1,1-Dichloroethylene	"	2200
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	15
Methyl bromide	"	ND
Methyl chloride	"	"
Methylene chloride	"	1900
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	4400
Toluene	"	370
Trans-1,2-Dichloroethylene	"	4700
1,1,1-trichloroethane	"	1800
1,1,2-trichloroethane	"	100
Trichloroethylene	"	2200
Trichlorofluoromethane	"	590
Vinyl chloride	"	5200
Methyl ethyl ketone	"	13
Acetone	"	32
4-Methyl-2-Pentanone	"	32
Mixed Xylenes	"	61

Signatures & Certification

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW 20
Date Sampled: 8/15/85
Date Reported: 8/27/85

Date of Report: 8/27/85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-860-0090 dil. 50X

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	500 ug/L	
Acrylonitrile	"	
Benzene	"	
Bromoform	"	
Carbon tetrachloride	"	
Chlorobenzene	"	
Chlorodibromomethane	"	
Chloroethane	"	500
2-chloroethyl vinyl ether	"	
Chloroform	"	
Dichlorobromomethane	"	
Dichlorodifluoromethane	"	
1,1-Dichloroethane	"	4000
1,2-Dichloroethane	"	
1,1-Dichloroethylene	"	2900
1,2-Dichloropropane	"	
Cis-1,3-Dichloropropylene	"	
Trans-1,3-Dichloropropylene	"	
Ethyl benzene	"	
Methyl bromide	"	
Methyl chloride	"	
Methylene chloride	"	4200
1,1,2,2-tetrachloroethane	"	
Tetrachloroethylene	"	68,000
Toluene	"	400
Trans-1,2-Dichloroethylene	"	53,000
1,1,1-trichloroethane	"	5200
1,1,2-trichloroethane	"	
Trichloroethylene	"	18000
Trichlorofluoromethane	"	500
Vinyl chloride	"	7300
Methyl ethyl ketone	"	

Signatures & Certification

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-45
Date Sampled: 8/15/85
Date Reported: 8/27/85

Date of Report: 8/27/85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-860-0100

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	14
Acetone	"	<10

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
Manager
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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-45
Date Sampled: 8/15/85
Date Reported: 8/27/85

Date of Report: 8/27/85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-860-0100 Duplicate

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	16
Acetone	"	<10

Signatures & Certification

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Manager
WESTON Analytical Laboratories

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-70 (dil 10x)
Date Sampled: 8-15-85
Date Reported: 8-27-85

Date of Report: 8-27-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-860-0110

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	100 µg/L	ND
Acrylonitrile	"	"
Benzene	"	<100
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	480
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	<100
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<100
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	10000
Toluene	"	<100
Trans-1,2-Dichloroethylene	"	2100
1,1,1-trichloroethane	"	ND
1,1,2-trichloroethane	"	"
Trichloroethylene	"	2600
Trichlorofluoromethane	"	ND
Vinyl chloride	"	<100
Methyl ethyl ketone	"	100
Acetone	"	150

Signatures & Certification

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-93
Date Sampled: 8/15/85
Date Reported: 8/27/85

Date of Report: 8/27/85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-860-0120

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	<10
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	<10
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	16
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	<10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Carbon Disulfide	"	<10

Signatures & Certification

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG-9
Date Sampled: 8/15/85
Date Reported: 8/28/85

Date of Report: 8/27/85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-860-0130

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	<10
1,1-Dichloroethylene	"	ND
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	<10
Methylene chloride	"	ND
1,1,2,2-tetrachloroethane	"	22
Tetrachloroethylene	"	ND
Toluene	"	13
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	<10
Trichloroethylene	"	ND
Trichlorofluoromethane	"	<10
Vinyl chloride	"	ND
Methyl ethyl ketone		

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
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WESTON Analytical Laboratori

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitat limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BS-10
Date Sampled: 8/15/85
Date Reported: 8/28/85

Date of Report: 8/27/85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-860-0140

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	<10
Tetrachloroethylene	"	46
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	<10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Acetone	"	<10
Carbon Disulfide	"	<10

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitatio limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG-1
Date Sampled: 8/15/85
Date Reported: 8/28/85

Date of Report: 8/27/85
Project Code: Martin Marietta Bear Cre
Order No: 1790-07-01
Chain of Custody No: 8508-860-0150

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	13
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Carbon Disulfide	"	<10

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratorie

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitati limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Lab Blank
Date Sampled: N/A
Date Reported: 8/28/85

Date of Report: 8/27/85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-860-Blank

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"

Signatures & Certification

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Manager
WESTON Analytical Laboratorie

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitati limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT A
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Blank
Date Sampled: 8/15/85
Date Reported: 8/28/85

Date of Report
Project Code:
Order No: 1790-
Chain of Custo

VOLATILE ORGANIC	DETECTION LIMIT	CONC ppb (
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	<10
Methylene chloride	"	ND
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	1
Methyl ethyl ketone	"	<1
Acetone		

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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Approved

NOTE: ND means Not Detected. <10 means detected but a leve
limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Field Blank
Date Sampled: 8-15-85
Date Reported: 8-27-85

Date of Report: 8-27-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-860-0160

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	10
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	13
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	<10
1,1,1-trichloroethane	"	ND
1,1,2-trichloroethane	"	"
Trichloroethylene	"	<10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	17
Acetone	"	13

Signatures & Certification

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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Trip Blank
Date Sampled: 8-15-85
Date Reported: 8-27-85

Date of Report: 8-27-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-860-0170

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	<10
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	73
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10

Signatures & Certification

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Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Lab Blank
Date Sampled: DNA
Date Reported: 8-27-85

Date of Report: 8-27-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-860-Blank

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	<10
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	<10
1,1,1-trichloroethane	"	ND
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	<10
Methyl ethyl ketone	"	11
Acetone	"	16

Signatures & Certification

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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: 25 ppb
Date Sampled: 8/15/85
Date Reported: 8/27/85

Date of Report: August 27, 1985
Project Code: Martin Marietta Bear Cree
Order No: 1790-860-Blank Spike
Chain of Custody No: 8508-860-Blank Spike

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	(88%) 22
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	(136%) 34
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	(112%) 28
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	(148%) 37
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	(80%) 20
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Acetone	"	12

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratorie:

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitati limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Lab Blank Spike 50 ppb
Date Sampled: 8/15/85
Date Reported:

Date of Report: August 27, 1985
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-860-Lab Blank Spike

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	34 (68%)
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	41 (82%)
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	39 (78%)
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	<10
Methylene chloride	"	ND
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	43 (86%)
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	33 (66%)
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Acetone	"	<10

Signatures & Certification

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Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitatio limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: 100 ppb
Date Sampled: N/A
Date Reported: 8/28/85

Date of Report: August 27, 1985
Project Code: Martin Marietta Bear Cre
Order No: 1790-07-01
Chain of Custody No: Blank Spike 8508-860

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	144 (144%)
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	87 (87%)
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	66 (66%)
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	95 (95%)
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	140 (140%)
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	19
Acetone	"	<10

Signatures & Certification

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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratori

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitat limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: 100 ppb
Date Sampled: N/A
Date Reported: 8-27-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-860-Blank Spike

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene **	"	65 (65%)
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene **	"	89 (89%)
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene **	"	98 (98%)
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene **	"	125 (125%)
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene **	"	40 (40%)
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	14
Acetone	"	17

** = Spiking Compound

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitatic limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BG-9 50 ppb
Date Sampled: 8/15/85
Date Reported: 8/28/85

Date of Report: August 27, 1985
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-860-0130 MS

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	(64%)
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	78% 39
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	(78%) 39
1,1-Dichloroethylene	"	ND
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	<10
Methylene chloride	"	ND
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	(78%) 39
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	(64%) 32
Trichloroethylene	"	ND
Trichlorofluoromethane	"	"
Vinyl chloride	"	<10
Methyl ethyl ketone	"	<10
Acetone		

Signatures & Certification

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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected, <10 means detected but a level less than the lower quantitati limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-104
Date Sampled: 8-16-85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-862-0010

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	<10
Carbon tetrachloride	"	ND
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	17
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	<10
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	23
1,1,2,2-tetrachloroethane	"	<10
Tetrachloroethylene	"	310
Toluene	"	<10
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	14
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	<10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	14
Acetone	"	220*

*Greater than calibration range - see dilution

Signatures & Certification

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WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW 104 Duplicate
Date Sampled: 8-16-85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-862-0020

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	<10
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	16
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	<10
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	22
1,1,2,2-tetrachloroethane	"	<10
Tetrachloroethylene	"	300*
Toluene	"	<10
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	14
1,1,2-trichloroethane	"	"
Trichloroethylene	"	<10
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	32
Acetone	"	220*

* Calibration range - See Dilution

Signatures & Certification

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitatic limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW 104 Duplicate (1:10 dilution)
Date Sampled: 8/16/85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-862-0020 (1:10)

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	100 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	<100
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<100
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	210
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"
Acetone	"	230

Signatures & Certification

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Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-66
Date Sampled: 8-16-85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-862-0030

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	<10
1,2-Dichloroethane	"	<10
1,1-Dichloroethylene	"	<10
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	<10
Trichloroethylene	"	<10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Acetone	"	30
Carbon Disulfide	"	<10

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
Manager
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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitatio limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-67
Date Sampled: 8-16-85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-862-0040

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"

Signatures & Certification

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Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitatio limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-85
Date Sampled: 8-16-85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creel
Order No: 1790-07-01
Chain of Custody No: 8508-862-0050

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"

Signatures & Certification

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitatio limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-86
Date Sampled: 8-16-85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-862-0060

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	<10
Methylene chloride	"	ND
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	13
Methyl ethyl ketone	"	17
Acetone	"	<10
Carbon Disulfide	"	

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-18
Date Sampled: 8-16-85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creel
Order No: 1790-07-01
Chain of Custody No: 8508-862-0070

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-18 Dup.
Date Sampled: 8-16-85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-862-0070 DUP.

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"

Signatures & Certification

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Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitatio limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-27
Date Sampled: 8-16-85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-862-0080

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	190
Acrylonitrile	"	ND
Benzene	"	42
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	12
2-chloroethyl vinyl ether	"	ND
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	1100*
1,2-Dichloroethane	"	19
1,1-Dichloroethylene	"	570*
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	12
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	3900*
Toluene	"	45
Trans-1,2-Dichloroethylene	"	5400*
1,1,1-trichloroethane	"	980*
1,1,2-trichloroethane	"	18
Trichloroethylene	"	1800*
Trichlorofluoromethane	"	ND
Vinyl chloride	"	7800*
Methyl ethyl ketone	"	ND
Acetone	"	"
Xylenes	"	13

* Greater than Calibration range - See Dilution

Signatures & Certification

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-27 (1:10 Dilution)
Date Sampled: 8-16-85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-862-0080 (1:10)

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	<100
Bromoform	"	<100
Carbon tetrachloride	"	ND
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	950
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	340
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<100
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	15,000
Toluene	"	100
Trans-1,2-Dichloroethylene	"	25,000
1,1,1-trichloroethane	"	890
1,1,2-trichloroethane	"	<100
Trichloroethylene	"	5800
Trichlorofluoromethane	"	ND
Vinyl chloride	"	8,000
Methyl ethyl ketone	"	ND

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitatio limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-16
Date Sampled: 8-16-85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-862-0090

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	<10
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	<10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	"

Signatures & Certification

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Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-16 Duplicate
Date Sampled: 8-16-85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-862-0090 Dup.

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	<10
Methylene chloride	"	ND
1,1,2,2-tetrachloroethane	"	<10
Tetrachloroethylene	"	ND
Toluene	"	<10
Trans-1,2-Dichloroethylene	"	<10
1,1,1-trichloroethane	"	ND
1,1,2-trichloroethane	"	<10
Trichloroethylene	"	ND
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone		

Signatures & Certification

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Manager
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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitatio limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-14
Date Sampled: 8-16-85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-862-0100

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	95
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	400 *
2-chloroethyl vinyl ether	"	ND
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	1200*
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	500 *
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	17
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	3000*
Toluene	"	10
Trans-1,2-Dichloroethylene	"	7600*
1,1,1-trichloroethane	"	10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	2600*
Trichlorofluoromethane	"	ND
Vinyl chloride	"	10,000*
Methyl ethyl ketone	"	ND

*Above calibration range. See dilution.

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitatio limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-14 DF=100
Date Sampled: 8/16/85
Date Reported: 8/29/85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creel
Order No: 1790-07-01
Chain of Custody No: 8508-862-0100

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	1000 µg/L	ND
Acrylonitrile	"	"
Benzene	"	<1000
Bromoform	"	<1000
Carbon tetrachloride	"	<1000
Chlorobenzene	"	<1000
Chlorodibromomethane	"	<1000
Chloroethane	"	<1000
2-chloroethyl vinyl ether	"	ND
Chloroform	"	<1000
Dichlorobromomethane	"	<1000
Dichlorodifluoromethane	"	ND
1,1-Dichloroethane	"	1200
1,2-Dichloroethane	"	<1000
1,1-Dichloroethylene	"	<1000
1,2-Dichloropropane	"	<1000
Cis-1,3-Dichloropropylene	"	<1000
Trans-1,3-Dichloropropylene	"	<1000
Ethyl benzene	"	<1000
Methyl bromide	"	ND
Methyl chloride	"	"
Methylene chloride	"	<1000
1,1,2,2-tetrachloroethane	"	<1000
Tetrachloroethylene	"	1400
Toluene	"	<1000
Trans-1,2-Dichloroethylene	"	23,000
1,1,1-trichloroethane	"	<1000
1,1,2-trichloroethane	"	<1000
Trichloroethylene	"	3000
Trichlorofluoromethane	"	<1000
Vinyl chloride	"	1600
Methyl ethyl ketone	"	<1000
Bromomethane	"	<1000
Acetone	"	1800
Carbon Disulfide	"	<1000

Detection Limit = 1000 µg/L

Styrene <1000
Mixed xylenes <1000

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Field Blank
Date Sampled: 8-16-85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-862-0110

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	<10
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"

Signatures & Certification

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Senior Project Scientist
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Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitatio limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Soil
Location I.D.: Bear Creek 3.25
Date Sampled: 8-16-85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508- 862-0180

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb (ug/Kg)
Acrolein	56 ug/Kg	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	<56
Methylene chloride	"	ND
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	180
Acetone	"	130
Carbon disulfide	"	<56

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Soil
Location I.D.: Bear Creek 5.15
Date Sampled: 8-16-85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-862-0190

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb (ug/Kg)
Acrolein	78 ug/Kg	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<78
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	160
Acetone	"	150

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitatio limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Soil
Location I.D.: Bear Creek 7.87
Date Sampled: 8-16-85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-862-0200

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb (ug/Kg)
Acrolein	58 ug/Kg	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<58
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	92
Acetone	"	120
Carbon disulfide	"	<58

Signatures & Certification

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Manager
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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitatio limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Soil
Location I.D.: Bear Creek 9.40
Date Sampled: 8-16-85
Date Reported: 8-30-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cr
Order No: 1790-07-01
Chain of Custody No: 8508-862-0210

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb (ug/Kg)
Acrolein	70 ug/Kg	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<70
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	110
Acetone	"	180
Carbon disulfide	"	<70

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laborator

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantita limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-862-0220

ample Matrix: Soil
ocation I.D.: Bear Creek 9.43
ate Sampled: 8-16-85
ate Reported: 8-30-85

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb (ug/Kg)
Acrolein	58 ug/Kg	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	<58
Methyl bromide	"	ND
Methyl chloride	"	"
Methylene chloride	"	"
1,1,2,2-tetrachloroethane	"	<58
Tetrachloroethylene	"	ND
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	<58
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	"
Trichlorofluoromethane	"	110
Vinyl chloride	"	101
Methyl ethyl ketone	"	<58
Acetone	"	
Carbon disulfide		

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laborator

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Soil
Location I.D.: Bear Creek 9.91
Date Sampled: 8-16-85
Date Reported: 8-30-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cre
Order No: 1790-07-01
Chain of Custody No: 8508-862-0230

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb (ug/Kg)
Acrolein	63 ug/Kg	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<63
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	<63
Trans-1,2-Dichloroethylene	"	<63
1,1,1-trichloroethane	"	ND
1,1,2-trichloroethane	"	"
Trichloroethylene	"	<63
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	180
Acetone	"	170
Carbon disulfide	"	<63

Signatures & Certification

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WESTON Analytical Laboratorie

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitati limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Soil
Location I.D.: Bear Creek 9.91 Duplicate
Date Sampled: 8-16-85
Date Reported: 8-30-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cre
Order No: 1790-07-01
Chain of Custody No: 8508-862-0230 Dup.

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb (ug/Kg)
Acrolein	57 ug/Kg	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	<57
Methylene chloride	"	ND
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	<57
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	<57
Trichloroethylene	"	ND
Trichlorofluoromethane	"	"
Vinyl chloride	"	110
Methyl ethyl ketone	"	120
Acetone	"	<57
Carbon disulfide		

Signatures & Certification

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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratori

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitat limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Lab Blank
Date Sampled: 8-16-85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-862-Blank

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"

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Manager
WESTON Analytical Laboratories

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Lab Blank
Date Sampled: 8-16-85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-862-Blank

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	11
Acetone	"	<10

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.:
Date Sampled:
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cr
Order No: 1790-07-01
Chain of Custody No: 8508-862-Lab Blank

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	<10
Methylene chloride	"	ND
1,1,2,2-tetrachloroethane	"	<10
Tetrachloroethylene	"	ND
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laborator

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantita limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Lab Blank Spike 25 ppb
Date Sampled:
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-862-Blank Spike 25 ppb

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/Kg	ND
Acrylonitrile	"	"
Benzene	"	122%
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	113%
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	73%
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	112%
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	108%
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	17
Acetone	"	15

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Blank Spike 50 ppb
Date Sampled:
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-862-Blank Spike

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	70%
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	120%
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	76%
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	67%
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
Manager
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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Blank Spike 100 ppb
Date Sampled:
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-862-Blank Spike

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	144%
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	87%
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	66%
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	10
Toluene	"	95%
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	140%
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	19
Acetone	"	<10

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Soil
Location I.D.: Lab Blank Spike 250 ng
Date Sampled: 8-16-85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-862-SPK 250 ng.

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb (ug/Kg)
Acrolein	48 ug/kg	ND
Acrylonitrile	"	"
Benzene	"	84%
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	76%
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	94%
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<48
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	"
Toluene	"	130%
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	62%
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	94
Acetone	"	860
Carbon Disulfide	"	<48

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitatio limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-85 MS 50 ppb
Date Sampled: 8-16-85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-862-0050
Matrix Spike

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	148%
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	90%
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	64%
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	100%
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	144%
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Soil
Location I.D.: Bear Creek 9.40 MS 250 ng
Date Sampled: 8-16-85
Date Reported: 8-30-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cre
Order No: 1790-07-01
Chain of Custody No: 8508-862-0210 MS

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb (ug/Kg)
Acrolein	66 ug/kg	ND
Acrylonitrile	"	"
Benzene	"	110%
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	88%
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	54 %
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<66
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	112%
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	76%
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	200
Acetone	"	120
Carbon Disulfide	"	<66

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GW-86 MS 25ppb
Date Sampled: 8-16-85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-862-0060 MS

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 µg/L	ND
Acrylonitrile	"	"
Benzene	"	119%
Bromoform	"	ND
Carbon tetrachloride	"	"
Chlorobenzene	"	100%
Chlorodibromomethane	"	ND
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	73%
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	106%
Trans-1,2-Dichloroethylene	"	ND
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	103%
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Acetone	"	13
Carbon Disulfide		<10

Signatures & Certification

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Soil
Location I.D.: Bear Creek 7.87 500 ng Matrix Spike
Date Sampled: 8-16-85
Date Reported: 8-30-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-862-0200 Matrix Spike

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/Kg)
Acrolein	57 ug/Kg	
Acrylonitrile	"	
Benzene **	"	113%
Bromoform	"	
Carbon tetrachloride	"	
Chlorobenzene **	"	83%
Chlorodibromomethane	"	
Chloroethane	"	
2-chloroethyl vinyl ether	"	
Chloroform	"	
Dichlorobromomethane	"	
Dichlorodifluoromethane	"	
1,1-Dichloroethane	"	
1,2-Dichloroethane	"	
1,1-Dichloroethylene **	"	49%
1,2-Dichloropropane	"	
Cis-1,3-Dichloropropylene	"	
Trans-1,3-Dichloropropylene	"	
Ethyl benzene	"	
Methyl bromide	"	
Methyl chloride	"	
Methylene chloride	"	
1,1,2,2-tetrachloroethane	"	
Tetrachloroethylene	"	
Toluene **	"	108%
Trans-1,2-Dichloroethylene	"	
1,1,1-trichloroethane	"	
1,1,2-trichloroethane	"	
Trichloroethylene **	"	79%
Trichlorofluoromethane	"	
Vinyl chloride	"	
Methyl ethyl ketone	"	

** = Spiking Compound

Signatures & Certification

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Soil
Location I.D.: Lab Blank
Date Sampled: 8-16-85
Date Reported: 8-29-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-862-Lab Blank

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb (ug/Kg)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	13
Acetone	"	22

Signatures & Certification

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BCK 10.32
Date Sampled: 8-29-85
Date Reported: 9-6-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-912-0010

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/l	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	78

Signatures & Certification

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BCK 10.32 Duplicate
Date Sampled: 8-29-85
Date Reported: 9-6-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-912-0020

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	29
Acetone	"	<10

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BCK 9.43
Date Sampled: 8-30-85
Date Reported: 9-6-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-912-0030

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	<10
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	36
1,1,1-trichloroethane	"	10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	<10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	<10
Methyl ethyl ketone	"	<10

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BCK 11.83
Date Sampled: 8-29-85
Date Reported: 9-6-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-912-0040

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/l	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Acetone	"	<10

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BCK 9.91
Date Sampled: 8-29-85
Date Reported: 9-6-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-912-0050

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	<10
Dichlorobromomethane	"	ND
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	<10
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	<10
1,2-Dichloropropane	"	ND
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	13
Toluene	"	ND
Trans-1,2-Dichloroethylene	"	110
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	11
Trichlorofluoromethane	"	ND
Vinyl chloride	"	13
Methyl ethyl ketone	"	<10

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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BCK 12.36
Date Sampled: 8-29-85
Date Reported: 9-6-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-912-0060

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Acetone	"	<10

Signatures & Certification

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: SS-4
Date Sampled: 8-29-85
Date Reported: 9-6-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-912-0070

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	<10
1,1,1-trichloroethane	"	ND
1,1,2-trichloroethane	"	"
Trichloroethylene	"	<10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: SS-4 Duplicate
Date Sampled: 8-29-85
Date Reported: 9-6-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-912-0080

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	<10
1,1,1-trichloroethane	"	ND
1,1,2-trichloroethane	"	"
Trichloroethylene	"	<10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	"
Methyl ethyl ketone	"	"
Acetone	"	<10
Carbon disulfide	"	<10

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BCK 11.49
Date Sampled: 8-29-85
Date Reported: 9-6-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-912-0090

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BCK 7.87
Date Sampled: 8-29-85
Date Reported: 9-6-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-912-0100

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	<10
1,1,1-trichloroethane	"	ND
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BCK 9.40
Date Sampled: 8-29-85
Date Reported: 9-6-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creel
Order No: 1790-07-01
Chain of Custody No: 8508-912-0110

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	<10
1,2-Dichloroethane	"	ND
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	<10
Toluene	"	<10
Trans-1,2-Dichloroethylene	"	24
1,1,1-trichloroethane	"	<10
1,1,2-trichloroethane	"	ND
Trichloroethylene	"	<10
Trichlorofluoromethane	"	ND
Vinyl chloride	"	<10
Methyl ethyl ketone	"	<10

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Manager
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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BCK 3.25
Date Sampled: 8-29-85
Date Reported: 9-6-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-912-0120

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	65
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	<10
Trichlorofluoromethane	"	<10
Vinyl chloride	"	ND
Methyl ethyl ketone	"	<10
Acetone	"	180
Carbon disulfide	"	<10
Styrene	"	<10

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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: BCK 5.15
Date Sampled: 8-29-85
Date Reported: 9-6-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-912-0130

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Acetone	"	<10

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GCK 2.4
Date Sampled: 8-30-85
Date Reported: 9-6-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-912-0140

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	54
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	<10
Trichlorofluoromethane	"	<10
Vinyl chloride	"	ND
Methyl ethyl ketone	"	<10
Acetone	"	180
Carbon disulfide	"	<10
Styrene	"	<10

Signatures & Certification

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Manager
WESTON Analytical Laboratories

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GCK 2.4 quadruplicate
Date Sampled: 8-30-85
Date Reported: 9-6-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-912-0140 Duplicate

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	50
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	<10
Trichlorofluoromethane	"	<10
Vinyl chloride	"	ND
Methyl ethyl ketone	"	<10
Acetone	"	150
Carbon disulfide	"	23
Styrene	"	<10

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: ND-2
Date Sampled: 8-30-85
Date Reported: 9-6-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-912-0150

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	<10
Methylene chloride	"	ND
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	<10
Methyl ethyl ketone	"	

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GCK 1.4
Date Sampled: 8-30-85
Date Reported: 9-6-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-912-0160

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	<10
Methylene chloride	"	ND
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	<10
Methyl ethyl ketone	"	

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GCK 2.4 Duplicate
Date Sampled: 8-30-85
Date Reported: 9-6-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-912-0170

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
Manager
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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitatio limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: GCK 2.4 triplicate
Date Sampled: 8-30-85
Date Reported: 9-6-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creel
Order No: 1790-07-01
Chain of Custody No: 8508-912-0170 Duplicate

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"
Acetone	"	12

Signatures & Certification

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Soil
Location I.D.: BCK 10.32
Date Sampled: 8-29-85
Date Reported: 9-7-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-912-0180

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/Kg)
Acrolein	25 ug/Kg	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<25
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	68
Acetone	"	60

Signatures & Certification

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Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Soil
Location I.D.: BCK 10.32 Duplicate
Date Sampled: 8-29-85
Date Reported: 9-7-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-912-0190

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/Kg)
Acrolein	26 ug/Kg	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<26
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	38
Acetone	"	28

Signatures & Certification

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Soil
Location I.D.: SS-4
Date Sampled: 8-29-85
Date Reported: 9-7-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-912-0200

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/Kg)
Acrolein	22 ug/Kg	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	<22
Methylene chloride	"	ND
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	<22
Methyl ethyl ketone	"	43
Acetone		

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Soil
Location I.D.: GCK 2.4
Date Sampled: 8-30-85
Date Reported: 9-7-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-912-0210

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/Kg)
Acrolein	35 ug/Kg	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	38
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	"

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Soil
Location I.D.: GCK 1.4
Date Sampled: 8-30-85
Date Reported: 9-7-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creel
Order No: 1790-07-01
Chain of Custody No: 8508-912-0220

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/Kg)
Acrolein	43 ug/Kg	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<43
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	140
Acetone	"	180

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Soil
Location I.D.: BCK 12.36
Date Sampled: 8-29-85
Date Reported: 9-7-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-912-0230

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/Kg)
Acrolein	41 ug/Kg	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<41
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	110
Acetone	"	160
Carbon disulfide	"	<41

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Soil
Location I.D.: NT-2
Date Sampled: 8-29-85
Date Reported: 9-7-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-912-0240

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/Kg)
Acrolein	24 ug/Kg	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	24
Methylene chloride	"	ND
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	78
Methyl ethyl ketone	"	110
Acetone		

Signatures & Certification

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Soil
Location I.D.: BCK 11.83
Date Sampled: 8-29-85
Date Reported: 9-7-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creel
Order No: 1790-07-01
Chain of Custody No: 8508-912-0250

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/Kg)
Acrolein	19 ug/Kg	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<19
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	43
Acetone	"	130
Carbon disulfide	"	<19

Signatures & Certification

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Soil
Location I.D.: GCK 2.4 Duplicate
Date Sampled: 8-29-85
Date Reported: 9-7-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Cree
Order No: 1790-07-01
Chain of Custody No: 8508-912-0260

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/Kg)
Acrolein	22 ug/Kg	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<22
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	68
Acetone	"	130
Carbon disulfide	"	<22

Signatures & Certification

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Soil
Location I.D.: BCK 11.49
Date Sampled: 8-29-85
Date Reported: 9-7-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-912-0270

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/Kg)
Acrolein	26 ug/Kg	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<26
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	86
Acetone	"	150
Carbon disulfide	"	<26

Signatures & Certification

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NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Soil
Location I.D.: SS-4 Duplicate
Date Sampled: 8-29-85
Date Reported: 9-7-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: 8508-912-0280

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/Kg)
Acrolein	29 ug/Kg	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	<29
Methylene chloride	"	ND
1,1,2,2-tetrachloroethane	"	"
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	95
Methyl ethyl ketone	"	310
Acetone		

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VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Water
Location I.D.: Lab Blank
Date Sampled: N/A
Date Reported: 9-6-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: Lab Blank

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/liter)
Acrolein	10 ug/L	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	<10
Acetone	"	<10

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS
(METHOD: GC/MS)

Sample Matrix: Soil
Location I.D.: Lab Blank
Date Sampled: N/A
Date Reported: 9-6-85

Date of Report: 9-30-85
Project Code: Martin Marietta Bear Creek
Order No: 1790-07-01
Chain of Custody No: Lab Blank

VOLATILE ORGANIC	DETECTION LIMIT	CONC. UNITS ppb(ug/Kg)
Acrolein	10 ug/Kg	ND
Acrylonitrile	"	"
Benzene	"	"
Bromoform	"	"
Carbon tetrachloride	"	"
Chlorobenzene	"	"
Chlorodibromomethane	"	"
Chloroethane	"	"
2-chloroethyl vinyl ether	"	"
Chloroform	"	"
Dichlorobromomethane	"	"
Dichlorodifluoromethane	"	"
1,1-Dichloroethane	"	"
1,2-Dichloroethane	"	"
1,1-Dichloroethylene	"	"
1,2-Dichloropropane	"	"
Cis-1,3-Dichloropropylene	"	"
Trans-1,3-Dichloropropylene	"	"
Ethyl benzene	"	"
Methyl bromide	"	"
Methyl chloride	"	"
Methylene chloride	"	<10
1,1,2,2-tetrachloroethane	"	ND
Tetrachloroethylene	"	"
Toluene	"	"
Trans-1,2-Dichloroethylene	"	"
1,1,1-trichloroethane	"	"
1,1,2-trichloroethane	"	"
Trichloroethylene	"	"
Trichlorofluoromethane	"	"
Vinyl chloride	"	"
Methyl ethyl ketone	"	43
Acetone	"	32

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

NOTE: ND means Not Detected. <10 means detected but a level less than the lower quantitation limit of 10 ppb.

HERBICIDES, PESTICIDES AND PCBS
(INCLUDES QUALITY ASSURANCE DATA)
AUGUST 1985

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Ground Water
LOCATION I.D.: GW-44
DATE SAMPLED: 8-13-85
DATE REPORTED: 8-28-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-843-0140

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Ground Water
LOCATION I.D.: GW-44
DATE SAMPLED: 8-13-85
DATE REPORTED: 8-28-85

PROJECT CODE: Martin Marietta Bear Cree
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-843-0140
Duplicate

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Carter Milton
for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Ground Water
LOCATION I.D.: GW-57
DATE SAMPLED: 8-14-85
DATE REPORTED: 8-28-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-855-0080

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Ground Water
LOCATION I.D.: GW-41
DATE SAMPLED: 8-14-85
DATE REPORTED: 8-28-85

PROJECT CODE: Martin Marietta Bear Cree
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-855-0100

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Ground Water
LOCATION I.D.: Bear Creek 3.25
DATE SAMPLED: 8-16-85
DATE REPORTED: 8-28-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-862-0120

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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Senior Project Scientist
WESTON Analytical Laboratories

Approved by: for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Ground Water
LOCATION I.D.: Bear Creek 5.15
DATE SAMPLED: 8-16-85
DATE REPORTED: 8-28-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-862-0130

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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Manager
WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Ground Water
LOCATION I.D.: Bear Creek 7.87
DATE SAMPLED: 8-16-85
DATE REPORTED: 8-28-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-862-0140

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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Manager
WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Ground Water
LOCATION I.D.: Bear Creek 9.40
DATE SAMPLED: 8-16-85
DATE REPORTED: 8-28-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-862-0150

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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Manager
WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Ground Water
LOCATION I.D.: Bear Creek 9.40
DATE SAMPLED: 8-16-85
DATE REPORTED: 8-28-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-862-0150
Duplicate

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Ground Water
LOCATION I.D.: Bear Creek 9.43
DATE SAMPLED: 8-16-85
DATE REPORTED: 8-28-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-862-0160

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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Approved by: for Earl M. Hansen, Ph.D.
Manager
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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Ground Water
LOCATION I.D.: Bear Creek 9.91
DATE SAMPLED: 8-16-85
DATE REPORTED: 8-28-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-862-0170

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Ground Water
LOCATION I.D.: Bear Creek 9.91
DATE SAMPLED: 8-16-85
DATE REPORTED: 8-28-85 Pesticides
Herbicides

PROJECT CODE: Martin Marietta Bear Cree
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-862-0170
Duplicate

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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Approved by: For Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Ground Water
LOCATION I.D.: Blank Spike
DATE SAMPLED:
DATE REPORTED: 8-28-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY:

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter) Target Level	% Recovery
α-BHC	.2		
γ-BHC	.2	.1	65%
β-BHC	.2		
Heptachlor	.2	.1	78%
δ-BHC	.2		
Aldrin	.2	.1	53%
Heptachlor epoxide	.2		
Endosulfan I	.2		
DDE	.5		
Dieldrin	.5	.25	69%
Endrin	.5	.25	91%
DDD	.5		
Endosulfan II	.5		
DDT	.5	.25	80%
Endrin Aldehyde	.5		
Endosulfan Sulfate	.5		
Endrin Ketone	.5		
Methoxychlor	2		
Toxaphene	10		
Chlordane	2		
PCB 1016	5		
1221	10		
1232	5		
1242	5		
1248	5		
1254	5		
1260	5		

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Ground Water
LOCATION I.D.: Blank Spike
DATE SAMPLED:
DATE REPORTED: 8-28-85

PROJECT CODE: Martin Marietta Bear Cr.
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY:

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter) Target Level	% Recovery
α-BHC	.2		
γ-BHC	.2	.2	70%
β-BHC	.2		
Heptachlor	.2	.2	86%
δ-BHC	.2		
Aldrin	.2	.2	54%
Heptachlor epoxide	.2		
Endosulfan I	.2		
DDE	.5		
Dieldrin	.5	.5	74%
Endrin	.5	.5	94%
DDD	.5		
Endosulfan II	.5		
DDT	.5	.5	68%
Endrin Aldehyde	.5		
Endosulfan Sulfate	.5		
Endrin Ketone	.5		
Methoxychlor	2		
Toxaphene	10		
Chlordane	2		
PCB 1016	5		
1221	10		
1232	5		
1242	5		
1248	5		
1254	5		
1260	5		

Note: ND means Not Detected.

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Ground Water
LOCATION I.D.: Blank Spike
DATE SAMPLED:
DATE REPORTED: 8-28-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY:

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter) Target Level	% Recovery
α-BHC	.2		
γ-BHC	.2	.4	75%
β-BHC	.2		
Heptachlor	.2	.4	96%
δ-BHC	.2		
Aldrin	.2	.4	64%
Heptachlor epoxide	.2		
Endosulfan I	.2		
DDE	.5		
Dieldrin	.5	1.0	78%
Endrin	.5	1.0	99%
DDD	.5		
Endosulfan II	.5		
DDT	.5	1.0	80%
Endrin Aldehyde	.5		
Endosulfan Sulfate	.5		
Endrin Ketone	.5		
Methoxychlor	2		
Toxaphene	10		
Chlordane	2		
PCB 1016	5		
1221	10		
1232	5		
1242	5		
1248	5		
1254	5		
1260	5		

Note: ND means Not Detected.

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Ground Water
LOCATION I.D.: Bear Creek 9.43 Matrix Spike
DATE SAMPLED: 8-16-85
DATE REPORTED: 8-28-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-862-0160

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter) Target Level	% Recovery
α-BHC	.2		
γ-BHC	.2	.2	63%
β-BHC	.2		
Heptachlor	.2	.2	87%
δ-BHC	.2		
Aldrin	.2	.2	61%
Heptachlor epoxide	.2		
Endosulfan I	.2		
DDE	.5		
Dieldrin	.5	.5	71%
Endrin	.5	.5	105%
DDD	.5		
Endosulfan II	.5		
DDT	.5	.5	70%
Endrin Aldehyde	.5		
Endosulfan Sulfate	.5		
Endrin Ketone	.5		
Methoxychlor	2		
Toxaphene	10		
Chlordane	2		
PCB 1016	5		
1221	10		
1232	5		
1242	5		
1248	5		
1254	5		
1260	5		

Note: ND means Not Detected.

Signatures & Certification

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Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Carter Mell
pr
Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Ground Water
LOCATION I.D.: GW-44 Matrix Spike
DATE SAMPLED: 8-13-85
DATE REPORTED: 8-28-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-843-0140

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)	
		Target Level	% Recovery
α-BHC	.2		
γ-BHC	.2	.1	65%
β-BHC	.2		
Heptachlor	.2	.1	84%
δ-BHC	.2		
Aldrin	.2	.1	54%
Heptachlor epoxide	.2		
Endosulfan I	.2		
DDE	.5		
Dieldrin	.5	.25	68%
Endrin	.5	.25	87%
DDD	.5		
Endosulfan II	.5		
DDT	.5	.25	98%
Endrin Aldehyde	.5		
Endosulfan Sulfate	.5		
Endrin Ketone	.5		
Methoxychlor	2		
Toxaphene	10		
Chlordane	2		
PCB 1016	5		
1221	10		
1232	5		
1242	5		
1248	5		
1254	5		
1260	5		

Note: ND means Not Detected.

Signatures & Certification

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Manager
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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Ground Water
LOCATION I.D.: Lab Blank
DATE SAMPLED:
DATE REPORTED: 8-28-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY:

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

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Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Ground Water
LOCATION I.D.: Lab Blank
DATE SAMPLED:
DATE REPORTED: 8-28-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY:

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: BCK 10.32
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0010

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 10.32 Duplicate
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0020

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 9.43
DATE SAMPLED: 8-30-85
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0030

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 11.83
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0040

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 11.83
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0040
Duplicate

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 9.91
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0050

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 9.91
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0050
Duplicate

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 12.36
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0060

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 12.36
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cree
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0060
Duplicate

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: SS-4
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0070

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: SS-4 Duplicate
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0080

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 11.49
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0090

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 7.87
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cree
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0100

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 9.40
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cre·
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0110

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 3.25
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cree
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0120

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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Manager
WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 5.15
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0130

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: GCK 2.4
DATE SAMPLED: 8-30-85
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cree
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0140

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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Approved by: Pr Earl M. Hansen, Ph.D.
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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: NT-2
DATE SAMPLED: 8-30-85
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0150

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 1.4
DATE SAMPLED: 8-30-85
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cree
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0160

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 2.4 Duplicate
DATE SAMPLED: 8-30-85
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cree
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0170

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: Method Blank 1
DATE SAMPLED:
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cree
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY:

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: Method Blank 2
DATE SAMPLED:
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY:

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: Method Blank 3
DATE SAMPLED:
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY:

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)
α-BHC	.2	ND
γ-BHC	.2	"
β-BHC	.2	"
Heptachlor	.2	"
δ-BHC	.2	"
Aldrin	.2	"
Heptachlor epoxide	.2	"
Endosulfan I	.2	"
DDE	.5	"
Dieldrin	.5	"
Endrin	.5	"
DDD	.5	"
Endosulfan II	.5	"
DDT	.5	"
Endrin Aldehyde	.5	"
Endosulfan Sulfate	.5	"
Endrin Ketone	.5	"
Methoxychlor	2	"
Toxaphene	10	"
Chlordane	2	"
PCB 1016	5	"
1221	10	"
1232	5	"
1242	5	"
1248	5	"
1254	5	"
1260	5	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.:
DATE SAMPLED:
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: Blank Spike

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)	
		Target Level	% Recovery
α-BHC	.2		
γ-BHC	.2	.4	89%
β-BHC	.2		
Heptachlor	.2	.4	101%
δ-BHC	.2		
Aldrin	.2	.4	69%
Heptachlor epoxide	.2		
Endosulfan I	.2		
DDE	.5		
Dieldrin	.5	1.0	85%
Endrin	.5	1.0	104%
DDD	.5		
Endosulfan II	.5		
DDT	.5	1.0	94%
Endrin Aldehyde	.5		
Endosulfan Sulfate	.5		
Endrin Ketone	.5		
Methoxychlor	2		
Toxaphene	10		
Chlordane	2		
PCB 1016	5		
1221	10		
1232	5		
1242	5		
1248	5		
1254	5		
1260	5		

Note: ND means Not Detected.

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.:
DATE SAMPLED:
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cr
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: Blank Spike

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)	
		Target Level	% Recovery
α-BHC	.2		
γ-BHC	.2	.2	84%
β-BHC	.2		
Heptachlor	.2	.2	93%
δ-BHC	.2		
Aldrin	.2	.2	55%
Heptachlor epoxide	.2		
Endosulfan I	.2		
DDE	.5		
Dieldrin	.5	.5	80%
Endrin	.5	.5	83%
DDD	.5		
Endosulfan II	.5		
DDT	.5	.5	88%
Endrin Aldehyde	.5		
Endosulfan Sulfate	.5		
Endrin Ketone	.5		
Methoxychlor	2		
Toxaphene	10		
Chlordane	2		
PCB 1016	5		
1221	10		
1232	5		
1242	5		
1248	5		
1254	5		
1260	5		

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.:
DATE SAMPLED:
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cr
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: Blank Spike

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)	
		Target Level	% Recovery
α-BHC	.2		
γ-BHC	.2	.1	82%
β-BHC	.2		
Heptachlor	.2	.1	98%
δ-BHC	.2		
Aldrin	.2	.1	48%
Heptachlor epoxide	.2		
Endosulfan I	.2		
DDE	.5	.25	80%
Dieldrin	.5		
Endrin	.5	.25	82%
DDD	.5		
Endosulfan II	.5		
DDT	.5	.25	88%
Endrin Aldehyde	.5		
Endosulfan Sulfate	.5		
Endrin Ketone	.5		
Methoxychlor	2		
Toxaphene	10		
Chlordane	2		
PCB 1016	5		
1221	10		
1232	5		
1242	5		
1248	5		
1254	5		
1260	5		

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 11.83
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cr
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0040
Matrix Spike

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)	
		Target Level	% Recovery
α-BHC	.2		
γ-BHC	.2	.1	70%
β-BHC	.2		
Heptachlor	.2	.1	99%
δ-BHC	.2		
Aldrin	.2	.1	62%
Heptachlor epoxide	.2		
Endosulfan I	.2		
DDE	.5		
Dieldrin	.5	.25	76%
Endrin	.5	.25	94%
DDD	.5		
Endosulfan II	.5		
DDT	.5	.25	83%
Endrin Aldehyde	.5		
Endosulfan Sulfate	.5		
Endrin Ketone	.5		
Methoxychlor	2		
Toxaphene	10		
Chlordane	2		
PCB 1016	5		
1221	10		
1232	5		
1242	5		
1248	5		
1254	5		
1260	5		

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 9.91
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-8-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0050
Matrix Spike

ANALYTE	DETECTION LIMIT (µg/liter)	CONC. UNITS ppb (µg/liter)	
		Target Level	% Recovery
α-BHC	.2		
γ-BHC	.2	.2	72%
β-BHC	.2		
Heptachlor	.2	.2	90%
δ-BHC	.2		
Aldrin	.2	.2	65%
Heptachlor epoxide	.2		
Endosulfan I	.2		
DDE	.5		
Dieldrin	.5	.5	76%
Endrin	.5	.5	93%
DDD	.5		
Endosulfan II	.5		
DDT	.5	.5	86%
Endrin Aldehyde	.5		
Endosulfan Sulfate	.5		
Endrin Ketone	.5		
Methoxychlor	2		
Toxaphene	10		
Chlordane	2		
PCB 1016	5		
1221	10		
1232	5		
1242	5		
1248	5		
1254	5		
1260	5		

Note: ND means Not Detected.

Signatures & Certification

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WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Ground Water
LOCATION I.D.: GW 44
DATE SAMPLED: 8-13-85
DATE REPORTED: 9-3-85

PROJECT CODE: Martin Marietta Bear Cr
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-843-0140

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Ground Water
LOCATION I.D.: GW 57
DATE SAMPLED: 8-14-85
DATE REPORTED: 9-3-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-855-0080

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Ground Water
LOCATION I.D.: GW 57
DATE SAMPLED: 8-14-85
DATE REPORTED: 9-3-85

PROJECT CODE: Martin Marietta Bear Cr
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-855-0080
Duplicate

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Ground Water
LOCATION I.D.: GW 41
DATE SAMPLED: 8-14-85
DATE REPORTED: 9-3-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-855-0100

ANALYTE	DETECTION LIMIT(ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: Bear Creek 3.25
DATE SAMPLED: 8-16-85
DATE REPORTED: 9-3-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-862-0120

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: Bear Creek 3.25
DATE SAMPLED: 8-16-85
DATE REPORTED: 9-3-85

PROJECT CODE: Martin Marietta Bear Cre.
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-862-0120
Duplicate

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: Bear Creek 5.15
DATE SAMPLED: 8-16-85
DATE REPORTED: 9-3-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-862-0130

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: Bear Creek 7.87
DATE SAMPLED: 8-16-85
DATE REPORTED: 9-3-85

PROJECT CODE: Martin Marietta Bear Cree
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-862-0140

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: Bear Creek 9.40
DATE SAMPLED: 8-16-85
DATE REPORTED: 9-3-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-862-0150

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: Bear Creek 9.43
DATE SAMPLED: 8-16-85
DATE REPORTED: 9-3-85

PROJECT CODE: Martin Marietta Bear Cree
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-862-0160

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: Bear Creek 9.91
DATE SAMPLED: 8-16-85
DATE REPORTED: 9-3-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-862-0170

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: Bear'Creek 9.91
DATE SAMPLED: 8-16-85
DATE REPORTED: 9-3-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-862-0170
Duplicate

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICID S AND PCB'S

SAMPLE MATRIX: Method Blank 1
LOCATION I.D.:
DATE SAMPLED:
DATE REPORTED: 9-3-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY:

ANALYTE	CONC. UNITS iter) ppb (ug/liter)
2,4-D	ND
2,4,5-TP	"
2,4,5-T	"

Note: ND means Not Detected.

Signatures & Certification

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proved by: Earl M. Hansen, Ph.D.
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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Method Blank 2
LOCATION I.D.:
DATE SAMPLED:
DATE REPORTED: 9-3-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY:

ANALYTE	DETECTION LIMIT(ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D		ND
2,4,5-TP		"
2,4,5-T		"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Method Blank 3
LOCATION I.D.:
DATE SAMPLED:
DATE REPORTED: 9-3-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY:

ANALYTE	DETECTION LIMIT(ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: Bear Creek 3.25
DATE SAMPLED: 8-16-85
DATE REPORTED: 9-3-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-862-0120
Matrix Spike

ANALYTE	DETECTION LIMIT(ug/liter)	CONC. UNITS ppb (ug/liter) Target level	% Recovery
2,4-D	10	10.6	67
2,4,5-TP	1	10.6	46
2,4,5-T	1	10.7	68

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: Bear Creek 5.15
DATE SAMPLED: 8-16-85
DATE REPORTED: 9-3-85

PROJECT CODE: Martin Marietta Bear Cree
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-862-0130
Matrix Spike

ANALYTE	DETECTION LIMIT(ug/liter)	CONC. UNITS ppb (ug/liter) Target level	% Recovery
2,4-D	10	5.3	48
2,4,5-TP	1	5.3	79
2,4,5-T	1	5.35	73

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Blank Spike 1
LOCATION I.D.:
DATE SAMPLED:
DATE REPORTED: 9-3-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY:

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter) Target level	% Recovery
2,4-D	10	5.3	54
2,4,5-TP	1	5.3	38
2,4,5-T	1	5.35	68

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Blank Spike 2
LOCATION I.D.:
DATE SAMPLED:
DATE REPORTED: 9-3-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY:

ANALYTE	DETECTION LIMIT(ug/liter)	CONC. UNITS ppb (ug/liter) Target level	% Recovery
2,4-D	10	10.6	50
2,4,5-TP	1	10.6	79
2,4,5-T	1	10.7	53

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Blank Spike 3
LOCATION I.D.:
DATE SAMPLED:
DATE REPORTED: 9-3-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY:

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter) Target level	% Recovery*
2,4-D	10	3.2	15
2,4,5-TP	1	3.2	21
2,4,5-T	1	3.2	16

* Some sample lost during KD concentration due to sample bumping

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: BCK 10.32
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-12-85

PROJECT CODE: Martin Marietta Bear Cr
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0010

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 10.32 Duplicate
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-12-85

PROJECT CODE: Martin Marietta Bear Cr
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0020

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 9.43
DATE SAMPLED: 8-30-85
DATE REPORTED: 9-12-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0030

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 11.83
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-12-85

PROJECT CODE: Martin Marietta Bear Cr
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0040

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 9.91
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-12-85

PROJECT CODE: Martin Marietta Bear Cr
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0050

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 12.36
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-12-85

PROJECT CODE: Martin Marietta Bear Cr
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0060

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: SS-4
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-12-85

PROJECT CODE: Martin Marietta Bear Cr
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0070

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: SS-4-Duplicate
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-12-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0080

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 11.49
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-12-85

PROJECT CODE: Martin Marietta Bear Cr
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0090

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 7.87
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-12-85

PROJECT CODE: Martin Marietta Bear Cr
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0100

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 9.40
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-12-85

PROJECT CODE: Martin Marietta Bear Cr
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0110

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 3.25
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-12-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0120

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 5.15
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-12-85

PROJECT CODE: Martin Marietta Bear Cr
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0130

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: GCK 2.4
DATE SAMPLED: 8-30-85
DATE REPORTED: 9-12-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0140

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: NT-2
DATE SAMPLED: 8-30-85
DATE REPORTED: 9-12-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0150

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 2.4 Duplicate
DATE SAMPLED: 8-3-85
DATE REPORTED: 9-12-85

PROJECT CODE: Martin Marietta Bear Cr
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0170

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 10.32 Duplicate
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-12-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0020 Duplicate

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

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HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: 9.40
DATE SAMPLED: 8-29-85
DATE REPORTED: 9-12-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0110
Duplicate

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Surface Water
LOCATION I.D.: GCK 2.4
DATE SAMPLED: 8-30-85
DATE REPORTED: 9-12-85

PROJECT CODE: Martin Marietta Bear Cre
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY: 8508-912-0140
Duplicate

ANALYTE	DETECTION LIMIT (ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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Senior Project Scientist
WESTON Analytical Laboratories

Approved by: for Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Blank 1
LOCATION I.D.:
DATE SAMPLED:
DATE REPORTED: 9-12-85

PROJECT CODE: Martin Marietta Bear Cr
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY:

ANALYTE	DETECTION LIMIT(ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Blank 2
LOCATION I.D.:
DATE SAMPLED:
DATE REPORTED: 9-12-85

PROJECT CODE: Martin Marietta Bear Cr
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY:

ANALYTE	DETECTION LIMIT(ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

Compiled by: Edward P. McGovern, Ph.D.
Senior Project Scientist
WESTON Analytical Laboratories

Approved by: Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

HERBICIDES, PESTICIDES AND PCB'S

SAMPLE MATRIX: Blank 3
LOCATION I.D.:
DATE SAMPLED:
DATE REPORTED: 9-12-85

PROJECT CODE: Martin Marietta Bear Cı
ORDER NO#: 1790-07-01
CHAIN OF CUSTODY:

ANALYTE	DETECTION LIMIT(ug/liter)	CONC. UNITS ppb (ug/liter)
2,4-D	10	ND
2,4,5-TP	1	"
2,4,5-T	1	"

Note: ND means Not Detected.

Signatures & Certification

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