DEPARTMENT OF THE AIR FORCE
27TH CIVIL ENGINEER SQUADRON (ACC)
CANNON AIR FORCE BASE NEW MEXICO

JUL 2 2 2005

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AUG 2005
NMED Hazardous
Waste Bureau

Mr. James Bearzi
Chief Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East Building 1
Santa Fe NM 87505-6303

Dear Mr. Bearzi

Enclosed for your review and records are the final CY 2004 groundwater monitoring and sampling reports as follows: the semi-annual report for Monitoring Wells A (replacement well for well Q which went dry), B, C, D, S, T and U at Landfill No. 5 (SWMU 113) and the annual report for Monitoring Wells E, F, G and H at the Sewage Lagoons (SWMU 101) at Cannon Air Force Base taken June 14-16, 2004. Three additional Monitoring Wells on the perimeter of the base have been added since the CY 2003 submission in order to enhance a hydrogeologic study being accomplished for Cannon. They are MWs V, W and X. New Mexico Environmental Department (NMED) groundwater standards were used to determine if constituents detected in the monitoring wells exceeded applicable groundwater standards. If no NMED standard for a particular constituent was available, the US EPA groundwater Maximum Contaminant Levels (MCLs) or EPA Health Advisories were applied. In cases where NMED and EPA have established separate and different standards for the same constituent, the most stringent standard was applied for purposes of comparison.

The following is an excerpt from the executive summary of the attached report:

"Concentrations of analytes detected in ground water samples from wells on Cannon AFB are presented in Table 2 of the attached report. Only concentrations detected above the reporting limits are discussed in this summary and the concentrations are compared with applicable U.S. Environmental Protection Agency (USEPA) Drinking-Water Regulations. Arsenic, barium, selenium, sulfate, and vanadium may occur naturally at relatively high reporting limits.

Aluminum was detected in water samples from wells G and W, at concentrations of 100 μg/L and 110 μg/L, respectively. The associated method blanks also contained the target analyte at a reported level. The USEPA recommended SMCL for aluminum is 50 to 200 μg/L.

Arsenic was detected in water samples from wells A, C, and X at concentrations of 5.7 μg/L, 5.3 μg/L, and 6.4 μg/L, respectively. The USEPA enforceable MCL for arsenic is 10.0 μg/L.

Barium was detected in water samples from all fourteen wells, ranging in concentrations from 22.0 μg/L (well W) to 88.0 μg/L (well D); the associated method blanks also contained the target analyte at a reported level. The USEPA enforceable MCL for barium is 2,000 μg/L.

Chromium was detected in the water sample from well E at a concentration of 3.7 μg/L; the associated method blanks also contained the target analyte at a reported level. The USEPA enforceable MCL for chromium is 100 μg/L.

Copper was detected in the water sample from well S at a concentration of 28.0 μg/L. The USEPA recommended SMCL for copper is 1,000 μg/L.

Iron was detected in water samples from wells H and W at concentrations of 150 μg/L and 110, respectively The USEPA recommended SMCL for iron is 300 μg/L.

Lead was detected in the water sample from well G at a concentration of 1.4 μg/ L. The USEPA maximum contaminant level goal (SMCLG) standard for lead is zero.

Manganese was detected in the water sample from well V at a concentration of 24.0 μg/L. The USEPA recommended SMCL for manganese is 50.0 μg/L.

Nitrate was detected in water samples from all fourteen wells at concentrations ranging from 0.88 μg/L (well B) to 9.8 μg/L (well W). The USEPA enforceable MCL for nitrate is 10,000 μg/L.

Perchlorate was detected in water samples from all fourteen wells, at concentrations ranging from 0.21 μg/L (well D) to 5.6 μg/L (well H). The associated method blanks also contained the target analyte at a reported level. There is no Primary or Secondary Drinking-Water Regulation MCL or SMCL for perchlorate. Perchlorate, however, apppears on the USEPA Drinking Water Contaminant Candidate List published in the Federal Register on March 2, 1998, and on the USEPA Drinking Water Contaminant Candidate List 2 published in the Federal Register on April 2, 2004,

Selenium was detected in water samples from wells A, B, E, F, H, S, T, U, and V, ranging in concentrations from 5.1 μg/L (wells A, E, and F) to 10.0 μg/L (well V). The USEPA enforceable MCL for selenium is 50.0 μg/L.

Sulfate was detected in water samples from all fourteen wells at concentrations ranging from 48.0 μg/L (well X) to 220 μg/L (wells V and W); the reporting limit is elevated due to high analyte levels. The USEPA recommended SMCL for sulfate is 250,000 μg/L.

Vanadium was detected in all fourteen wells except well W. Concentrations ranged from 17.0 μg/L (wells E, F, and G) to 48.0 μg/L (well X). There is no National Primary or Secondary Drinking Water Regulation enforceable MCL or recommended SMCL for vanadium.

Zinc was detected in water samples from wells G, H and S, at concentrations of 28.0 μg/L, 32.0 μg/L, and 35.0 μg/L, respectively. The USEPA recommended SMCL for zinc is 5,000 μg/L."

The results of the CY 2004 long term monitoring sampling events provide no indication that any release from Landfills No. 5 or the Sewage Lagoons has impacted groundwater. If you have any questions, please contact Mr. Peter P. Zamie at (505) 784-4639.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or person who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely

ROBERT S. PYEATT, GS-13

Attachment:
RCRA Ground-Water Monitoring at Sewage Lagoons, Landfill 5 and Perimeter Wells

cc:
NMED (C. Frischkorn)
EPA Region VI w/o enclosure (D. Neleigh)
EPA Region VI (B. Sturdivant)

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Cannon Air Force Base, New Mexico

RCRA Ground-Water Monitoring at Sewage Lagoons, Landfill 5, and Perimeter Wells

Analytical Results of Samples Collected June 14-16, 2004

Prepared for

United States Air Force Air Combat Command
Cannon Air Force Base

February 2005

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CONTENTS

Page

Executive summary 1

Figure 1. Location of Cannon Air Force Base, New Mexico 5

Figure 2. Location of monitoring wells on Cannon Air Force Base 6

Table 1. Summary of concentrations of analytes in ground water from monitoring wells A, B, C, D, E, F, G, H, S, T, U, V, W, and X, Cannon Air Force Base, New Mexico 7

Table 2. Records of water-level measurements in monitoring wells on Cannon Air Force Base, New Mexico 31

Monitoring well identification reports 38

Monitoring well annual sampling reports 52

APPENDIX I

Severn Trent Laboratory Results of Analysis of Ground-Water Samples Collected June 14-16, 2004

Severn Trent Services Reports No. D4F150189, D4F160246, and D4F170353 ..... I-1

Executive summary (Detection Highlights I-10

Volatile organic compounds I-28

Semivolatile organic compounds I-88

Pesticides and PCB's I-173

APPENDIX I--Continued

Severn Trent Laboratory Results of Analysis of Ground-Water Samples Collected June 14-16, 2004

Page

Herbicides I-207

Dioxins/Furans I-224

Polynuclear aromatic hydrocarbons I-241

Perchlorate I-258

Total Metals I-275

General Chemistry I-309

Severn Trent quality control summary report I-326

Severn Trent sample receiving checklist I-483

APPENDIX II

USGS Laboratory Quality Assurance/Quality Control Results

USGS DODEC laboratory data review worksheet for D4F150189, D4F160246, and D4F170353 ..... II-1

USGS laboratory data validation checklist for D4F150189, D4F160246, and D4F170353 ..... II-5

APPENDIX III

USGS protocols, requirements, and documentation for Cannon Air Force Base monitoring wells.

Page

Field protocols III-1

Sample container and preservation requirements III-3

Analytical request/chain of custody documentation III-4

Field notes III-23

EXECUTIVE SUMMARY

The U.S. Geological Survey (USGS), Water Resources Division, and the U.S. Air Force Air Combat Command (ACC) have a memorandum of understanding that addresses the USGS to assist any ACC base in its earth-science, hydrology or environmental programs. Accordingly, the USGS has agreed to assist Cannon Air Force Base (Cannon AFB), an ACC base, in its Resource Conservation and Recovery Act (RCRA) ground-water sampling program. As part of the July 13, 1990, Compliance Agreement between Cannon AFB and the New Mexico Environment Department (NMED), ground-water detection sampling has been collected by the USGS. In addition to ground-water sampling, Cannon AFB Environmental Department has requested the USGS to conduct a hydrogeologic study, to help identify any potential environmental issues that may concern Cannon AFB. This involved drilling three addition wells along the perimeter of Cannon AFB, the collection of water level data from wells surrounding the Playa Lake on the eastern side of Cannon AFB, and updating surveys of all monitoring wells on Cannon AFB.

Cannon AFB is located in east-central New Mexico about 6 miles west of Clovis (fig. 1). Ground-water samples are collected from fourteen wells on Cannon AFB: from seven wells around Landfill 5 near the southeastern corner of the base, from four wells around the sewage lagoons on the east side of the base, and from three wells near the northwest, northeast, and southwest corners of the base (fig. 2). Water levels are measured in all fourteen wells, the historical water levels collected by the USGS on Cannon AFB are listed on table 1.

This report presents the water-quality data for samples collected from fourteen wells on Cannon AFB, during June 14-16, 2004. The monitoring wells sampled at Landfill 5 are downgradient wells B, C, D, S, T, and U, and upgradient well A. Well A replaced upgradient well Q, which was recently abandoned due to the decline of ground-water levels. The monitoring wells sampled at the sewage lagoons are upgradient well E and downgradient wells F, G and H. The three perimeter monitoring wells are well V (NW corner), well W (NE corner), and well X (SW corner).

To better assist Cannon AFB in defining the hydrogeology of the base, it has been decided to have consistency in the sampling protocol for all fourteen wells. All wells were sampled for the same constituents. Constituents include: volatile

organic compounds (VOC's) by method SW8260B; semivolatile organic compounds by method SW8270C; dioxins and furans by method SW8280; polynuclear aromatic hydrocarbons by method SW8310; pesticides and PCB's by methods SW8081 and SW8082; herbicides by method SW8151; total metals (aluminum, barium, beryllium, calcium, cobalt, copper, iron, magnesium, manganese, molybdenum, nickel, potassium, sodium, tin, vanadium, and zinc by SW6010; antimony, arsenic, cadmium, chromium, lead, selenium, silver, and thallium by SW6020; and mercury by SW7470A); perchlorate by SW8321A; and general chemistry (cyanide by SW9012, sulfide by SW9030,, total organic carbon (TOC) by SW9060, total organic halogens (TOX) by SW9020, nitrate by E353.2, nitrite by E354.1, anions by E300, and total dissolved solids (TDS) by E160.1).

The U.S. Environmental Protection Agency (USEPA) has established National Primary Drinking Water Regulations; these are legally enforceable standards, called maximum contaminant levels (MCL's), that apply to public water systems. Primary standards protect public health by limiting the levels of contaminants in drinking water.

The USEPA also has established National Secondary Drinking Water Regulations; these are non-mandatory, non-enforceable guidelines addressing contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. EPA recommends secondary maximum contaminant levels (SMCL's) to water systems but does not require systems to comply. States, however, may choose to adopt them as enforceable standards. These contaminants are not considered to present a risk to human health at the recommended SMCL.

Concentrations of analytes detected in ground water samples from wells on Cannon AFB are presented in table 2. Only concentrations detected above the reporting limits are discussed in this summary and the concentrations are compared with applicable U.S. Environmental Protection Agency (USEPA) Drinking-Water Regulations. Arsenic, barium, selenium, sulfate, and vanadium may occur naturally at relatively high reporting limits.

Aluminum was detected in water samples from wells G and W, at concentrations of 100 μg/L and 110 μg/L, respectively. The associated method blanks also contained the target analyte at a reported level. The USEPA recommended SMCL for aluminum is 50 to 200 μg/L.

Arsenic was detected in water samples from wells A, C, and X at concentrations of 5.7 μg/L, 5.3 μg/L, and 6.4 μg/L, respectively. The USEPA enforceable MCL for arsenic is 10.0 μg/L.

Barium was detected in water samples from all fourteen wells, ranging in concentrations from 22.0 μg/L (well W) to 88.0 μg/L (well D); the associated method blanks also contained the target analyte at a reported level. The USEPA enforceable MCL for barium is 2,000 μg/L.

Chromium was detected in the water sample from well E at a concentration of 3.7 μg/L; the associated method blanks also contained the target analyte at a reported level. The USEPA enforceable MCL for chromium is 100 μg/L.

Copper was detected in the water sample from well S at a concentration of 28.0 μg/L. The USEPA recommended SMCL for copper is 1,000 μg/L.

Iron was detected in water samples from wells H and W at concentrations of 150 μg/L and 110, respectively The USEPA recommended SMCL for iron is 300 μg/L.

Lead was detected in the water sample from well G at a concentration of 1.4 μg/L. The USEPA maximum contaminant level goal (SMCLG) standard for lead is zero.

Manganese was detected in the water sample from well V at a concentration of 24.0 μg/L. The USEPA recommended SMCL for manganese is 50.0 μg/L.

Nitrate was detected in water samples from all fourteen wells at concentrations ranging from 0.88 μg/L (well B) to 9.8 μg/L (well W). The USEPA enforceable MCL for nitrate is 10,000 μg/L.

Perchlorate was detected in water samples from all fourteen wells, at concentrations ranging from 0.21 μg/L (well D) to 5.6 μg/L (well H). The associated method blanks also contained the target analyte at a reported level. There is no Primary or Secondary Drinking-Water Regulation MCL or SMCL for perchlorate. Perchlorate, however, apppears on the USEPA Drinking Water Contaminant Candidate List published in the Federal Register on March 2, 1998, and on the USEPA Drinking Water Contaminant Candidate List 2 published in the Federal Register on April 2, 2004,

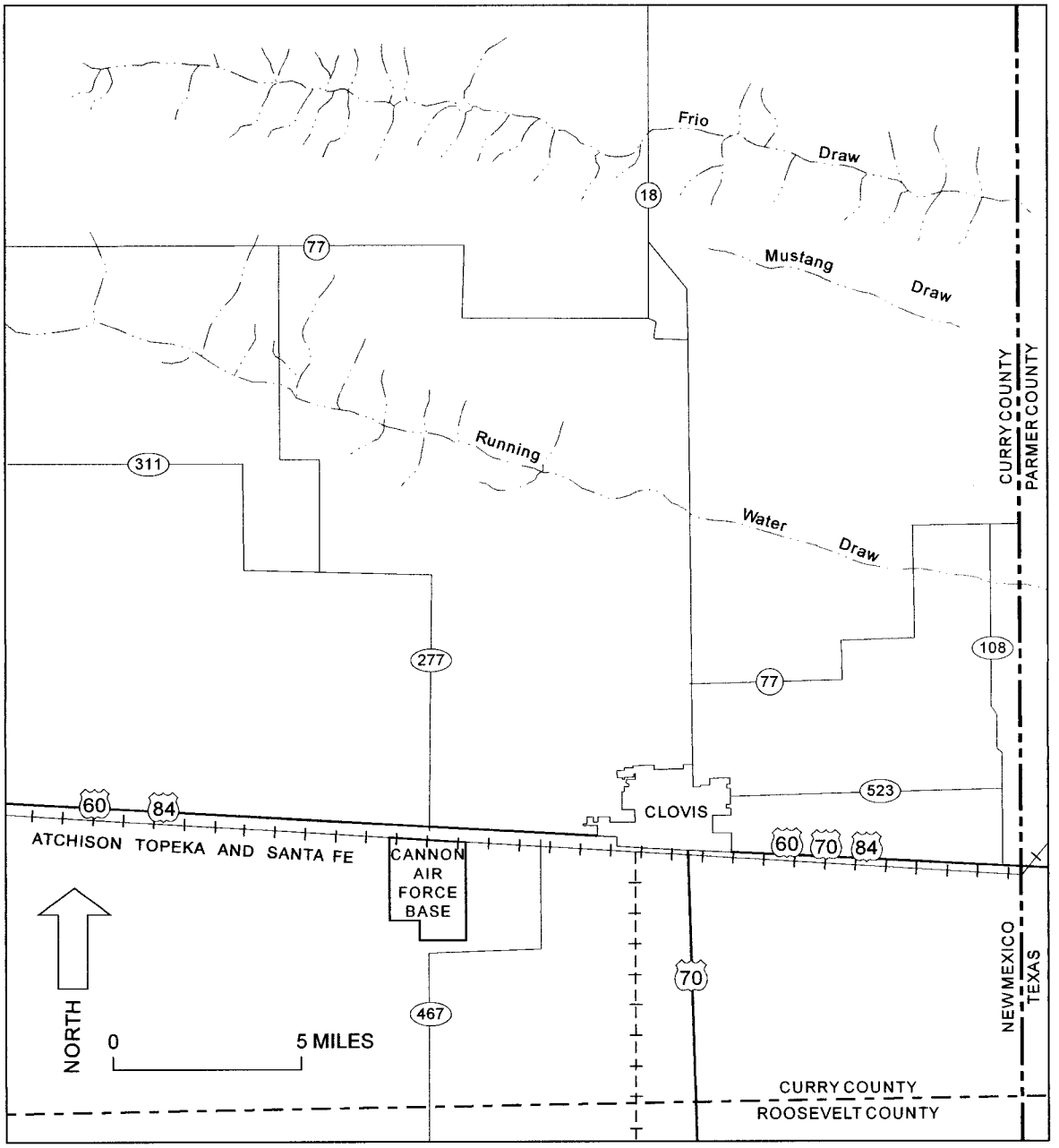
Selenium was detected in water samples from wells A, B, E, F, H, S, T, U, and V, ranging in concentrations from 5.1 μg/L (wells A, E, and F) to 10.0 μg/L (well V). The USEPA enforceable MCL for selenium is 50.0 μg/L.

Sulfate was detected in water samples from all fourteen wells at concentrations ranging from 48.0 μg/L (well X) to 220 μg/L (wells V and W); the reporting limit is elevated due to high analyte levels. The USEPA recommended SMCL for sulfate is 250,000 μg/L.

Vanadium was detected in all fourteen wells except well W. Concentrations ranged from 17.0 μg/L (wells E, F, and G) to 48.0 μg/L (well X). There is no National Primary or Secondary Drinking Water Regulation enforceable MCL or recommended SMCL for vanadium.

Zinc was detected in water samples from wells G, H and S, at concentrations of 28.0 μg/L, 32.0 μg/L, and 35.0 μg/L, respectively. The USEPA recommended SMCL for zinc is 5,000 μg/L.

As part of the quality assurance and quality control (QA/QC) procedures for the monitoring wells sampled on Cannon AFB, two trip blanks, two field duplicate samples, two equipment blanks, one pair of matrix spike samples, and matrix spike duplicate samples were collected. No target parameters were detected above reporting limits in the trip blanks. All the sample cooler temperatures upon receipt by the laboratory were under the EPA's recommendation of 6.0 degrees Celsius.



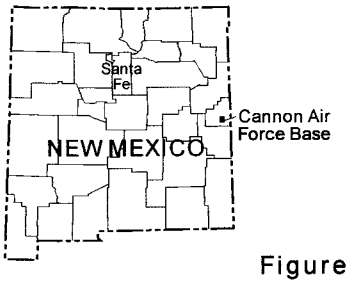
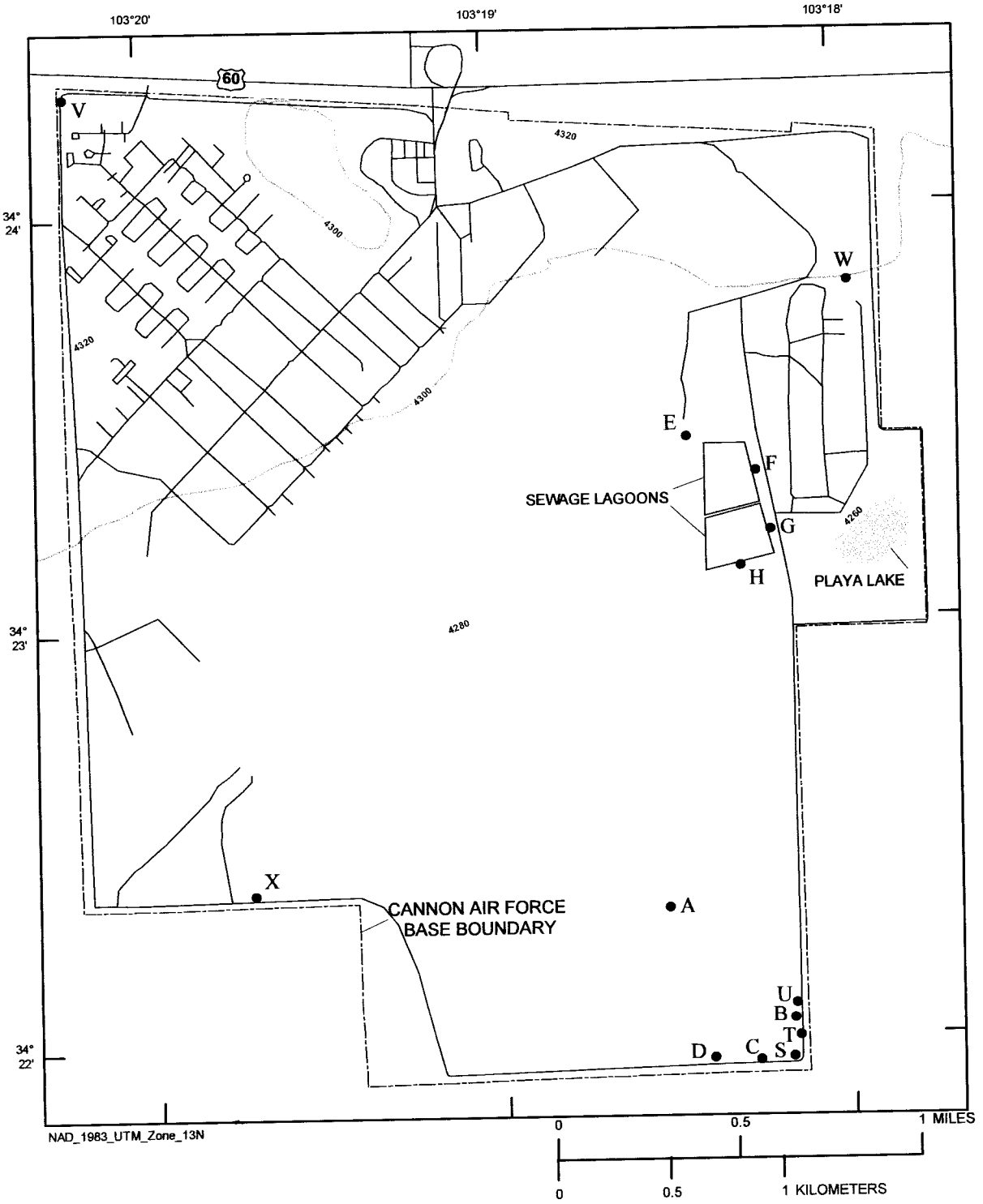


Figure 1. Location of Cannon Air Force Base, New Mexico.



EXPLANATION

- WELL - Characters are the well identifier

Figure 2. Location of monitoring wells at Cannon Air Force Base.

Table 1.--Summary of concentrations of analytes in ground water from monitoring well A, background well for Landfill 5, Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Methylene chloride µg/L	06/16/2004	0.25 J	5.0
Perchlorate µg/L		2.4 B	0.10
Arsenic µg/L		5.7	5.0
Aluminum µg/L		71.0 B,J	100
Barium µg/L		32.0 J	10.0
Beryllium µg/L		0.65 B	5.0
Calcium µg/L		34000	200
Chromium µg/L		2.5 J	2.0
Copper µg/L		1.8 B	20.0
Iron µg/L		88.0 B	100
Lead µg/L		0.63 B	1.0
Magnesium µg/L		33000	200
Manganese µg/L		5.7 B	10.0
Mecury µg/L		0.085 B	0.20
Molybdenum µg/L		3.9 B	20.0
Potassium µg/L		6800	3000
Selenium µg/L		5.1	5.0
Sodium µg/L		51000	5000
Vanadium µg/L		35.0	10.0
Total Dissolved Solids mg/L		390	10.0
Nitrate mg/L		1.4	0.10
Nitrite mg/L		0.0031B	0.010
Sulfate mg/L		90.0 Q	25.0

Analyte and unit	Date sampled	Result	RL

Table 1.--Summary of concentrations of analytes in ground water from monitoring well B at Landfill 5, Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Arsenic µg/L	03/03/1999	5.7	5.0
Barium µg/L		27.9	10.0
Calcium µg/L		42000	200
Chromium µg/L		0.74 B	1.0
Magnesium µg/L		40300	200
Mercury µg/L		0.14 B	0.20
Molybdenum µg/L		7.0 B	20.0
Potassium µg/L		6760	5000
Selenium µg/L		7.3	5.0
Sodium µg/L		58500	5000
Tin µg/L		52.4 B	100
Vanadium µg/L		27.3	10.0
Total Organic Halogens µg/L		12.9 B	30.0
Cyanide mg/L		0.0040 B	0.010
Total Organic Halogens µg/L	08/29/1999	3.5 B	30.0
Total Organic Carbon mg/L		0.43 B	1.0
Aluminum µg/L	03/01/2000	52.6 B	100
Arsenic µg/L		5.7	5.0
Barium µg/L		29.1	10.0
Calcium µg/L		40800	200
Chromium µg/L		1.3	1.0
Copper µg/L		1.1 B	20.0
Iron µg/L		52.5 B	100
Lead µg/L		0.26 B	1.0
Magnesium µg/L		40500	200
Manganese µg/L		2.3 B	10.0
Potassium µg/L		6670	5000
Selenium µg/L		9.2	5.0
Sodium µg/L		57900	5000
Thallium µg/L		0.074 B	1.0
Vanadium µg/L		27.9	10.0
Zinc µg/L		3.1 B	20.0
Sampled, no detections	08/10/2000	--	--

Analyte and unit	Date sampled	Result	RL
Aluminum µg/L	03/21/2001	87.2 B	100
Arsenic µg/L		5.4	5.0
Barium µg/L		37.9	10.0
Calcium µg/L		43200	200
Chromium µg/L		3.3	1.0
Copper µg/L		3.5 B	20.0
Iron µg/L		430	100
Lead µg/L		1.0	1.0
Magnesium µg/L		40800	200
Manganese µg/L		23.5 B	10.0
Molybdenum µg/L		4.7 B	20.0
Potassium µg/L		6410	5000
Selenium µg/L		6.7	5.0
Sodium µg/L		58000	5000
Vanadium µg/L		29.2	10.0
Zinc µg/L		8.4 B	20.0
2-Butanone (MEK) µg/L	08/21/2001	1.4 J	5.0
Arsenic µg/L	03/13/2002	4.6 B	5.0
Barium µg/L		25.1	10.0
Calcium µg/L		36100	200
Chromium µg/L		1.9 J	1.0
Iron µg/L		43.0 B	100
Lead µg/L		0.22 B	1.0
Magnesium µg/L		35200	200
Manganese µg/L		2.0 B	10.0
Molybdenum µg/L		4.1 B	20.0
Potassium µg/L		5930	5000
Selenium µg/L		6.2	5.0
Sodium µg/L		53400	5000
Vanadium µg/L		22.7	10.0
Total Organic Carbon mg/L		0.38 B,J	1.0
Total Cyanide mg/L		0.0052 B	0.010

Table 1.--Summary of concentrations of analytes in ground water from monitoring well B at Landfill 5, Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Methylene chloride µg/L	08/16/2002	1.1	1.0
Perchlorate µg/L		5.0 B	20.0
Total Organic Carbon mg/L		0.40 B	1.0
Perchlorate µg/L	03/18/2003	2.1	1.0
Arsenic µg/L		5.6 J	5.0
Barium µg/L		27.0	10.0
Cadmium µg/L		0.027 B	1.0
Calcium µg/L		40000	200
Chromium µg/L		2.1 J	2.0
Iron µg/L		25.0 B	100
Magnesium µg/L		37000	200
Manganese µg/L		0.77 B	10.0
Molybdenum µg/L		3.9 B	20.0
Potassium µg/L		6200	3000
Selenium µg/L		6.3	5.0
Silver µg/L		0.012 B	5.0
Sodium µg/L		56000	5000
Vanadium µg/L		27.0	10.0
Total Cyanide mg/L		.0041B	.010
Perchlorate µg/L	08/20/2003	2.4	1.0
Methylene chloride µg/L	06/16/2004	0.29 B	5.0
Perchlorate µg/L		2.3 B	0.10
Arsenic µg/L		4.7 B	5.0
Aluminum µg/L		71.0 B,J	100
Barium µg/L		27.0	10.0
Beryllium µg/L		0.71 B	5.0
Calcium µg/L		42000	200
Chromium µg/L		1.5 B,J	2.0
Copper µg/L		4.5 B	20.0
Iron µg/L		32.0 B	20.0
Lead µg/L		0.24 B	1.0
Magnesium µg/L		41000	200
Mecury µg/L		0.078 B	0.20
Molybdenum µg/L		4.0 B	20.0
Potassium µg/L		7700	3000
Selenium µg/L		5.9	5.0

Analyte and unit	Date sampled	Result	RL
Sodium µg/L	06/16/2004	61000	5000
Vanadium µg/L	-continued	28.0	10.0
Total Dissolved Solids mg/L		470	10.0
Nitrate mg/L		0.88	0.10
Nitrite mg/L		0.0034 B	0.010
Sulfate mg/L		130 Q	25.0

Table 1.--Summary of concentrations of analytes in ground water from monitoring well C at Landfill 5, Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Acetone µg/L	03/04/1999	0.81 J	10.0
Trichloroethene µg/L		0.86 J	1.0
Arsenic µg/L		6.9	5.0
Barium µg/L		30.4	10.0
Calcium µg/L		32600	200
Chromium µg/L		0.87 B	1.0
Iron µg/L		108	100
Lead µg/L		0.29 B	1.0
Magnesium µg/L		32800	200
Manganese µg/L		4.4 B	10.0
Mercury µg/L		0.18 B	0.20
Molybdenum µg/L		5.7 B	20.0
Potassium µg/L		5950	5000
Selenium µg/L		3.8 B	5.0
Sodium µg/L		50300	5000
Vanadium µg/L		39.3	10.0
Total Organic Halogens µg/L		17.0 B	30.0
Methylene chloride µg/L	08/31/1999	1.2 B	1.0
1,1 Dichloroethene µg/L		0.22 J	1.0
Trichloroethene µg/L		0.92 J	1.0
Total Organic Halogens µg/L		3.0 B	30.0
Total Organic Carbon mg/L		0.56 B	1.0
Methylene chloride µg/L	03/01/2000	0.29 J	1.0
Trichloroethene µg/L		1.4	1.0
Aluminum µg/L		42.8 B	100
Arsenic µg/L		7.2	5.0
Barium µg/L		31.9	10.0
Calcium µg/L		30600	200
Chromium µg/L		1.3	1.0
Iron µg/L		14.2 B	100
Lead µg/L		0.16 B	1.0
Magnesium µg/L		31300	200
Potassium µg/L		6670	5000
Selenium µg/L		4.1 B	5.0

Analyte and unit	Date sampled	Result	RL
Sodium µg/L	03/01/2000	48300	5000
Thallium µg/L	-continued	0.042 B	1.0
Vanadium µg/L		42.0	10.0
Trichloroethene µg/L	08/10/2000	1.4	1.0
Total Organic Halogens µg/L		5.7 B	30.0
Trichloroethene µg/L	03/21/2001	1.8	1.0
Aluminum µg/L		26.6 B	100
Arsenic µg/L		6.2	5.0
Barium µg/L		34.5	10.0
Calcium µg/L		31400	200
Chromium µg/L		2.0	1.0
Iron µg/L		19.2 B	100
Magnesium µg/L		30700	200
Molybdenum µg/L		5.6 B	20.0
Potassium µg/L		5170	5000
Selenium µg/L		1.6 B	5.0
Sodium µg/L		47600	5000
Vanadium µg/L		40.6	10.0
Total Sulfide mg/L		0.56 B	4.0
Trichloroethene µg/L	08/22/2001	1.7	1.0
Total Organic Carbon mg/L		0.62 B	1.0
Arsenic µg/L	03/13/2002	5.8	5.0
Barium µg/L		36.4	10.0
Calcium µg/L		28800	200
Chromium µg/L		1.6 J	1.0
Iron µg/L		17.0 B	100
Magnesium µg/L		29000	200
Manganese µg/L		0.95 B	10.0
Molybdenum µg/L		4.7 B	20.0
Potassium µg/L		5600	5000
Selenium µg/L		0.86 B	5.0
Sodium µg/L		48000	5000
Vanadium µg/L		38.9	10.0

Table 1.--Summary of concentrations of analytes in ground water from monitoring well C at Landfill 5, Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Zinc µg/L	03/13/2002	8.0 B	20.0
Total Organic Carbon mg/L	-continued	0.62 B,J	1.0
Total Cyanide mg/L		0.0059 B	0.010
Trichloroethene µg/L	08/13/2002	1.6	1.0
Total Organic Carbon mg/L		0.75 B	1.0
Methylene Chloride µg/L	03/20/2003	0.25 J	5.0
Trichloroethene µg/L		1.3	1.0
Antimony µg/L		0.25 B	2.0
Arsenic µg/L		6.3 J	5.0
Barium µg/L		40.0	10.0
Calcium µg/L		29000	200
Chromium µg/L		1.7 B	2.0
Iron µg/L		13.0 B	100
Lead µg/L		0.44 B	1.0
Magnesium µg/L		28000	200
Manganese µg/L		0.74 B	10.0
Mercury µg/L		0.019 B	0.20
Molybdenum µg/L		3.7 B	20.0
Potassium µg/L		5000	3000
Selenium µg/L		1.3 B	5.0
Sodium µg/L		45000	5000
Tin		3.4 B	100
Vanadium µg/L		41.0	10.0
Zinc µg/L		9.5 B	20.0
Total Organic Carbon mg/L		0.45 B	1.0
Trichloroethene µg/L	08/20/2003	1.5	1.0
Total Organic Carbon mg/L		0.84 B	1.0
Methylene chloride µg/L	06/15/2004	0.34 J	5.0
Perchlorate µg/L		0.41	0.05
Trichloroethene µg/L		0.78 J	1.0
Arsenic µg/L		5.3	5.0
Aluminum µg/L		60.0 B,J	100
Barium µg/L		45.0 J	10.0
Beryllium µg/L		0.68 B	5.0
Calcium µg/L		31000	200

Analyte and unit	Date sampled	Result	RL
Chromium µg/L	06/15/2004	1.3 B,J	2.0
Iron µg/L	-continued	21.0 B	100
Lead µg/L		0.11 B	1.0
Magnesium µg/L		30000	200
Mecury µg/L		0.079 B	0.20
Molybdenum µg/L		3.8 B	20.0
Potassium µg/L		6300	3000
Selenium µg/L		0.85 B	5.0
Sodium µg/L		50000	5000
Vanadium µg/L		40.0	10.0
Total Dissolved Solids mg/L		350	10.0
Nitrate mg/L		2.2	0.10
Nitrite mg/L		0.0023B	0.010
Sulfate mg/L		63.0 J,Q	25.0

Table 1.--Summary of concentrations of analytes in ground water from monitoring well D at Landfill 5, Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Trichloroethene µg/L	03/04/1999	2.4	1.0
Arsenic µg/L		6.0	5.0
Barium µg/L		61.3	10.0
Calcium µg/L		30500	200
Chromium µg/L		0.59 B	1.0
Iron µg/L		445	100
Lead µg/L		0.35 B	1.0
Magnesium µg/L		30600	200
Manganese µg/L		8.0 B	10.0
Potassium µg/L		5880	5000
Selenium µg/L		0.68 B	5.0
Sodium µg/L		47800	5000
Tin µg/L		36.2 B	100
Vanadium µg/L		39.0	10.0
Methylene chloride µg/L	08/31/1999	0.45 J	1.0
Trichloroethene µg/L		1.9	1.0
2-Butanone (MEK) µg/L		1.5 J	5.0
Total Organic Halogens µg/L		8.2 B	30.0
Total Organic Carbon mg/L		0.60 B	1.0
Chloroform µg/L	03/01/2000	0.65 B	1.0
Trichloroethene µg/L		1.4	1.0
Aluminum µg/L		49.1 B	100
Arsenic µg/L		6.1	5.0
Barium µg/L		46.8	10.0
Calcium µg/L		30200	200
Chromium µg/L		0.65 B	1.0
Copper µg/L		1.6 B	20.0
Iron µg/L		74.6 B	100
Lead µg/L		2.7 B	1.0
Magnesium µg/L		31300	200
Potassium µg/L		5980	5000
Selenium µg/L		1.8 B	5.0
Sodium µg/L		46700	5000
Vanadium µg/L		25.0	10.0

Analyte and unit	Date sampled	Result	RL
Zinc µg/L	03/01/2000	6.9 B	20.0
Total Organic Halogens µg/L	-continued	7.9 B	30.0
Boroform µg/L	08/10/2000	0.45 J	1.0
Trichloroethene µg/L		1.3	1.0
Total Organic Carbon mg/L		0.48 B	1.0
Trichloroethene µg/L	03/21/2001	1.1	1.0
Antimony µg/L		0.39 B	1.0
Arsenic µg/L		4.9 B	5.0
Barium µg/L		80.0	10.0
Calcium µg/L		31900	200
Chromium µg/L		1.6	1.0
Iron µg/L		35.1 B	100
Magnesium µg/L		31600	200
Molybdenum µg/L		4.0 B	20.0
Potassium µg/L		5290	5000
Sodium µg/L		46500	5000
Vanadium µg/L		38.8	10.0
Zinc µg/L		3.6 B	20.0
Trichloroethene µg/L	08/22/2001	0.94 J	1.0
Trichloroethene µg/L	03/12/2002	0.83 J	1.0
Arsenic µg/L		4.6 B	5.0
Barium µg/L		90.3	10.0
Calcium µg/L		32300	200
Chromium µg/L		1.1 J	1.0
Iron µg/L		26.4 B	100
Magnesium µg/L		32800	200
Manganese µg/L		1.2 B	10.0
Molybdenum µg/L		3.0 B	20.0
Potassium µg/L		6110	5000
Sodium µg/L		50800	5000
Vanadium µg/L		33.4	10.0
Total Organic Halogens µg/L		4.5 B	30.0
Total Cyanide mg/L		0.0065 B	0.010

Table 1.--Summary of concentrations of analytes in ground water from monitoring well D at Landfill 5, Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Trichloroethene µg/L	08/13/2002	0.57 J	1.0
Total Organic Carbon mg/L		0.47 B	1.0
Methylene chloride µg/L	03/20/2003	0.23 J	5.0
Trichloroethene µg/L		0.55 J	1.0
Arsenic µg/L		5.0 J	5.0
Barium µg/L		83.0	10.0
Calcium µg/Ll		31000	200
Chromium µg/L		1.2 B,J	2.0
Iron µg/L		19.0 B	100
Magnesium µg/L		30000	200
Manganese µg/L		1.6 B	10.0
Mercury µg/L		0.021 B	0.20
Molybdenum µg/L		3.3 B	20.0
Potassium µg/L		5300	3000
Selenium µg/L		0.32 B	5.0
Sodium µg/L		47000	5000
Tin µg/L		3.8 B	100
Vanadium µg/L		36.0	10.0
Trichloroethene µg/L	08/20/2003	0.51 J	1.0
Total Organic Carbon mg/L		0.58 B	1.0
Methylene chloride µg/L	06/16/2004	0.30 J	5.0
Perchlorate µg/L		0.21 B	0.01
Trichloroethene µg/L		0.40 J	1.0
Arsenic µg/L		4.6 B	5.0
Aluminum µg/L		57.0 B,J	100
Barium µg/L		88.0 J	10.0
Beryllium µg/L		0.60 B	5.0
Calcium µg/L		33000	200
Chromium µg/L		0.78 J	2.0
Copper µg/L		1.0 B	20.0
Iron µg/L		43.0 B	100
Lead µg/L		0.14 B	1.0
Magnesium µg/L		33000	200
Manganese µg/L		1.4 B	10.0
Mecury µg/L		0.090 B	0.20
Molybdenum µg/L		2.5 B	20.0

Analyte and unit	Date sampled	Result	RL
Potassium µg/L	06/16/2004	6500	3000
Selenium µg/L	-continued	0.52 B	5.0
Sodium µg/L		50000	5000
Vanadium µg/L		37.0	10.0
Total Dissolved Solids mg/L		350	10.0
Nitrate mg/L		1.4	0.10
Nitrite mg/L		0.0076B	0.010
Sulfate mg/L		90.0 Q	25.0
Total Organic Halogens µg/L		17.0	10.0

Table 1.--Summary of concentrations of analytes in ground water from monitoring well E at the Sewage Lagoons, Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Tetrachloroethene µg/L	03/02/1999	2.1	1.0
Arsenic µg/L		4.1 B	5.0
Barium µg/L		48.2	10.0
Calcium µg/L		36900	200
Chromium µg/L		5.1	1.0
Lead µg/L		0.47 B	1.0
Magnesium µg/L		34500	200
Potassium µg/L		6200	5000
Selenium µg/L		5.7	5.0
Sodium µg/L		53200	5000
Tin µg/L		44.4	100
Vanadium µg/L		20.0	10.0
Total Dissolved Solids mg/L		414	10.0
Sulfate mg/L		60.3 Q	25.0
Methylene chloride µg/L	08/31/1999	0.28 J	1.0
Tetrachloroethene µg/L		1.9	1.0
Trichloroethene µg/L		0.11 J	1.0
2-Butanone (MEK) µg/L		1.0 J	5.0
Nitrate mg/L		4.4	0.20
Methylene chloride µg/L	03/15/2000	1.0	1.0
Tetrachloroethene µg/L		1.0	1.0
Trichloroethene µg/L		0.12 J	1.0
Aluminum µg/L		56.9 B	100
Arsenic µg/L		3.5 B	5.0
Antimony µg/L		0.75 B	1.0
Barium µg/L		51.2	10.0
Calcium µg/L		39800	200
Chromium µg/L		11.5	1.0
Iron µg/L		96.6 B	100
Lead µg/L		11.4	1.0
Magnesium µg/L		37200	200
Manganese µg/L		4.0 B	10.0
Potassium µg/L		6920	5000
Selenium µg/L		4.0 B	5.0
Sodium µg/L		56400	5000

Analyte and unit	Date sampled	Result	RL
Vanadium µg/L	03/15/2000	40.6	10.0
Zinc µg/L	-continued	12.3 B	20.0
Total Dissolved Solids mg/L		426	10.0
Nitrate mg/L		1.8	0.20
Sulfate mg/L		64.7 Q	25.0
Aluminum µg/L	03/22/2001	107	100
Arsenic µg/L		3.1 B	5.0
Barium µg/L		51.8	10.0
Calcium µg/L		47300	200
Chromium µg/L		12.0	1.0
Iron µg/L		84.0 B	100
Lead µg/L		5.4	1.0
Magnesium µg/L		43500	200
Manganese µg/L		2.0 B	10.0
Potassium µg/L		6700	5000
Selenium µg/L		5.2	5.0
Silver µg/L		0.060 B	1.0
Sodium µg/L		60300	5000
Vanadium µg/L		18.0	10.0
Zinc µg/L		7.0 B	20.0
Total Dissolved Solids mg/L		503	10.0
Nitrate mg/L		1.4	0.20
Sulfate mg/L		81.1 Q	25.0
Arsenic µg/L	03/14/2002	2.8 B	5.0
Barium µg/L		52.8	10.0
Calcium µg/L		5000	200
Chromium µg/L		6.9 J	1.0
Iron µg/L		93.0 B	100
Lead µg/L		6.7	1.0
Magnesium µg/L		44600	200
Manganese µg/L		5.2 B	10.0
Potassium µg/L		6900	5000
Selenium µg/L		5.3	5.0
Silver µg/L		0.030 B	1.0
Sodium µg/L		59500	5000

Table 1.--Summary of concentrations of analytes in ground water from monitoring well E at the Sewage Lagoons, Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Vanadium µg/L	03/14/2002	18.4	10.0
Total Dissolved Solids mg/L	-continued	549	10.0
Nitrate mg/L		1.6	0.20
Nitrite mg/L		0.0023 B	0.010
Sulfate mg/L		85.2 Q	25.0
Perchlorate µg/L	03/21/2003	1.7	1.0
Tetrachloroethene µg/L		0.31 J	1.0
Arsenic µg/L		3.1 B,J	5.0
Barium µg/L		52.0	10.0
Calcium µg/L		53000	200
Chromium µg/L		3.2 J	1.0
Iron µg/L		32.0 B	100
Lead µg/L		0.70 B	1.0
Magnesium µg/L		48000	200
Manganese µg/L		1.9 B	10.0
Nickel µg/L		2.9 B	40.0
Selenium µg/L		4.9 B	5.0
Vanadium µg/L		18.0	10.0
Zinc µg/L		9.5 B	20.0
Total Dissolved Solids mg/L		550	10.0
Nitrate mg/L		1.7	0.20
Nitrite mg/L		0.0021 B	0.010
Sulfate mg/L		83.0 Q	25.0
Methylene chloride µg/L	06/16/2004	0.26 J	5.0
Perchlorate µg/L		1.8 B	0.10
Tetrachloroethene µg/L		0.48 J	1.0
Arsenic µg/L		2.6 B	5.0
Aluminum µg/L		51.0 B,J	100
Barium µg/L		47.0 J	10.0
Beryllium µg/L		0.65 B	5.0
Calcium µg/L		56000	200
Chromium µg/L		3.7 J	2.0
Copper µg/L		1.2 B	20.0
Iron µg/L		31.0 B	100
Lead µg/L		0.60 B	1.0
Magnesium µg/L		52000	200
Manganese µg/L		0.64 B	10.0
Potassium µg/L	06/16/2004	8700	3000
Selenium µg/L	-continued	5.1	5.0
Sodium µg/L		54000	5000
Vanadium µg/L		17.0	10.0
Zinc µg/L		19.0 B	20.0
Total Organic Halogens µg/L		8.3 B	10.0
Total Dissolved Solids mg/L		610	10.0
Nitrate mg/L		1.7	0.10
Nitrite mg/L		0.0034B	0.01
Sulfate mg/L		97.0 Q	25.0

Table 1.--Summary of concentrations of analytes in ground water from monitoring well F at the Sewage Lagoons, Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Acetone µg/L	03/02/1999	1.4 J,B	10.0
Methylene chloride µg/L		0.43 J	1.0
Arsenic µg/L		4.4 B	5.0
Chromium µg/L		1.5	1.0
Selenium µg/L		5.8	5.0
Sodium µg/L		643 B	5000
Tin µg/L		29.3 B	100
Total Dissolved Solids mg/L		506	10.0
Sulfate mg/L		139 Q	25.0
Nitrate mg/L	08/31/1999	1.2	0.10
Methylene chloride µg/L	03/02/2000	0.38 J	1.0
Tetrachloroethene µg/L		0.11 J	1.0
Aluminum µg/L		52.2 B	100
Arsenic µg/L		4.2 B	5.0
Barium µg/L		37.9	10.0
Calcium µg/L		44700	200
Chromium µg/L		2.2	1.0
Iron µg/L		27.8 B	100
Lead µg/L		0.67 B	1.0
Magnesium µg/L		45000	200
Potassium µg/L		7550	5000
Selenium µg/L		8.8	5.0
Sodium µg/L		42800	5000
Thallium µg/L		0.082 B	1.0
Vanadium µg/L		18.5	10.0
Zinc µg/L		5.0 B	20.0
Total Dissolved Solids mg/L		432	10.0
Nitrate mg/L		1.3	0.20
Sulfate mg/L		139 Q	25.0
Aldrin µg/L	08/21/2001	0.013 J	0.050
beta-BHC µg/L		0.049 J	0.050
delta-BHC µg/L		0.027 J	0.050
Endosulfan I µg/L		0.011 J	0.050
Endosulfan sulfate µg/L		0.020 J	0.050

Analyte and unit	Date sampled	Result	RL
Heptachlor µg/L	08/21/2001	0.016 J	0.050
Heptachlor epoxide µg/L	-continued	0.017 J	0.050
Aluminum µg/L		1890	100
Antimony µg/L		2.0	1.0
Arsenic µg/L		4.0 B	5.0
Barium µg/L		55.0	10.0
Cadmium µg/L		0.74 B	1.0
Calcium µg/L		49600	200
Chromium µg/L		10.6	1.0
Cobalt µg/L		0.81 B	10.0
Copper µg/L		12.4 B	20.0
Iron µg/L		1730	100
Lead µg/L		10.2	1.0
Magnesium µg/L		44000	200
Manganese µg/L		42.8	10.0
Mercury µg/L		0.054 B	0.20
Molybdenum µg/L		3.0 B	20.0
Nickel µg/L		14.3 B	40.0
Potassium µg/L		8380	5000
Selenium µg/L		7.1	5.0
Silver µg/L		1.6	1.0
Sodium µg/L		46900	5000
Vanadium µg/L		23.3	10.0
Zinc µg/L		60.5	20.0
Total Dissolved Solids mg/L		538	10.0
Nitrate mg/L		1.4	0.20
Nitrite mg/L		0.0054 B	0.010
Sulfate mg/L		131 Q	25.0
Arsenic µg/L	03/14/2002	2.9 B	5.0
Barium µg/L		39.9	10.0
Cadmium µg/L		0.37 B	1.0
Calcium µg/L		49600	200
Chromium µg/L		2.0 J	1.0
Iron µg/L		4400	100
Lead µg/L		0.45 B	1.0
Magnesium µg/L		4550	200

Table 1.--Summary of concentrations of analytes in ground water from monitoring well F at the Sewage Lagoons, Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Manganese µg/L	03/14/2002	1.2 B	10.0
Molybdenum µg/L	-continued	3.4 B	20.0
Potassium µg/L		7200	5000
Selenium µg/L		6.7	5.0
Sodium µg/L		49300	5000
Vanadium µg/L		17.4	10.0
Zinc µg/L		14.7 B	20.0
Total Dissolved Solids mg/L		525	10.0
Nitrate mg/L		1.2	0.20
Nitrite mg/L		0.0035 B	0.010
Sulfate mg/L		132 Q	25.0
Perchlorate µg/L	03/20/2003	2.3	1.0
Aluminum µg/L		24.0 B,J	100
Antimony µg/L		0.35 B	2.0
Arsenic µg/L		3.2 B	5.0
Barium µg/L		37.0	10.0
Beryllium µg/L		0.23 B	5.0
Cadmium µg/L		0.34 B	1.0
Calcium µg/L		47000	200
Chromium µg/L		3.3 J	1.0
Copper µg/L		8.6 B	20.0
Iron µg/L		53.0 B	100
Lead µg/L		0.62 B	1.0
Magnesium µg/L		46000	200
Manganese µg/L		2.3 B	10.0
Mercury µg/L		0.018 B	0.20
Molybdenum µg/L		3.8 B	20.0
Nickel µg/L		2.5 B	40.0
Selenium µg/L		7.2	5.0
Silver µg/L		0.031 B	5.0
Vanadium µg/L		18.0	10.0
Zinc µg/L		42.0	20.0
Total Dissolved Solids mg/L		520	10.0
Nitrate mg/L		1.0	0.10
Sulfate mg/L		140 Q	25.0
Methylene chloride µg/L	06/16/2004	0.29 J	5.0
Perchlorate µg/L		2.2 B	0.10
Arsenic µg/L	06/16/2004	3.2 B	5.0
Aluminum µg/L	-continued	59.0 B,J	100
Barium µg/L		38.0 J	10.0
Beryllium µg/L		0.64 B	5.0
Cadmium µg/L		0.071 B	1.0
Calcium µg/L		51000	200
Copper µg/L		14.0 B	20.0
Iron µg/L		53.0 B	100
Lead µg/L		0.26 B	1.0
Magnesium µg/L		48000	200
Mercury µg/L		0.10 B	0.20
Molybdenum µg/L		2.7 B	20.0
Potassium µg/L		8500	3000
Selenium µg/L		5.1	5.0
Sodium µg/L		55000	5000
Vanadium µg/L		17.0	10.0
Zinc µg/L		19.0 B	20.0
Total Dissolved Solids mg/L		550	10.0
Nitrate mg/L		1.2	0.10
Nitrite mg/L		0.004 B	0.01
Sulfate mg/L		130.0 Q	25.0
Total Carbon mg/L		9.5	1.0

Table 1.--Summary of concentrations of analytes in ground water from monitoring well G at the Sewage Lagoons, Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Methylene chloride µg/L	03/02/1999	0.25 J	1.0
Antimony µg/L		0.48 B	1.0
Arsenic µg/L		3.6 B	5.0
Barium µg/L		31.4	10.0
Calcium µg/L		71900	200
Chromium µg/L		7.6	1.0
Lead µg/L		0.88 B	1.0
Magnesium µg/L		70200	200
Potassium µg/L		8690	5000
Selenium µg/L		4.2 B	5.0
Sodium µg/L		60300	5000
Tin µg/L		74.0 B	100
Vanadium µg/L		15.8	10.0
Zinc µg/L		19.9 B	20.0
Total Dissolved Solids mg/L		781	10.0
Sulfate mg/L		182 Q	25.0
Nitrate mg/L	08/31/1999	4.0	0.10
Methylene chloride µg/L	03/02/2000	0.38 J	1.0
Aluminum µg/L		45.6 B	100
Arsenic µg/L		4.3 B	5.0
Barium µg/L		33.5	10.0
Calcium µg/L		69100	200
Chromium µg/L		1.4	1.0
Copper µg/L		2.1 B	20.0
Iron µg/L		33.4 B	100
Lead µg/L		0.44 B	1.0
Magnesium µg/L		69800	200
Potassium µg/L		9060	5000
Selenium µg/L		9.1	5.0
Sodium µg/L		55600	5000
Thallium µg/L		0.043 B	1.0
Vanadium µg/L		17.3	10.0
Zinc µg/L		9.8 B	20.0
Total Dissolved Solids mg/L		696	10.0

Analyte and unit	Date sampled	Result	RL
Nitrate mg/L	03/02/2000	10.6 Q	0.50
Sulfate mg/L	-continued	183 Q	25.0
Aluminum µg/L	03/22/2001	82.6 B	100
Arsenic µg/L		3.0 B	5.0
Barium µg/L		30.3	10.0
Calcium µg/L		59000	200
Chromium µg/L		3.4	1.0
Copper µg/L		3.2 B	20.0
Iron µg/L		86.7 B	100
Lead µg/L		0.65 B	1.0
Magnesium µg/L		56900	200
Manganese µg/L		0.92 B	10.0
Molybdenum µg/L		2.9 B	20.0
Potassium µg/L		6610	5000
Selenium µg/L		6.2	5.0
Sodium µg/L		57200	5000
Vanadium µg/L		17.1	10.0
Zinc µg/L		15.9 B	20.0
Total Dissolved Solids mg/L		627	10.0
Nitrate mg/L		5.6	0.50
Sulfate mg/L		169 Q	25.0
Aluminum µg/L	03/14/2002	71.8 B	100
Arsenic µg/L		3.1 B	5.0
Barium µg/L		32.4	10.0
Cadmium µg/L		0.032 B	1.0
Calcium µg/L		58100	200
Chromium µg/L		3.6 J	1.0
Iron µg/L		83.8 B	100
Lead µg/L		0.51 B	1.0
Magnesium µg/L		54500	200
Manganese µg/L		3.3 B	10.0
Potassium µg/L		7310	5000
Selenium µg/L		5.9	5.0
Silver µg/L		0.026 B	1.0
Sodium µg/L		52900	5000

Table 1.--Summary of concentrations of analytes in ground water from monitoring well G at the Sewage Lagoons, Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Vanadium µg/L	03/14/2002	18.0	10.0
Zinc µg/L	-continued	20.2	20.0
Total Dissolved Solids mg/L		624	10.0
Nitrate mg/L		4.2	0.10
Nitrite mg/L		0.0023 B	0.010
Sulfate mg/L		170 Q	25.0
Methylene chloride µg/L	03/20/2003	0.36 J	5.0
Perchlorate µg/L		1.7	1.0
Trichlorethene µg/L		0.18 J	1.0
Aluminum µg/L		48.0 B	100
Antimony µg/L		0.060 B	2.0
Arsenic µg/L		2.9 B	5.0
Barium µg/L		32.0	10.0
Cadmium µg/L		0.022 B	1.0
Calcium µg/L		53000	200
Chromium µg/L		3.8 J	1.0
Copper µg/L		5.3 B	20.0
Iron µg/L		45.0 B	100
Lead µg/L		0.71 B	1.0
Magnesium µg/L		53000	200
Manganese µg/L		1.4 B	10.0
Mercury µg/L		0.021 B	0.20
Molybdenum µg/L		2.7 B	20.0
Nickel µg/L		2.0 B	40.0
Selenium µg/L		5.5	5.0
Silver µg/L		0.034 B	5.0
Vanadium µg/L		19.0	10.0
Zinc µg/L		16.0 B	20.0
Total Dissolved Solids mg/L		550	10.0
Nitrate mg/L		2.1	0.10
Sulfate mg/L		150 Q	25.0
Methylene chloride µg/L	06/15/2004	0.35 J	5.0
Perchlorate µg/L		1.7	0.20
Arsenic µg/L		2.7 B	5.0
Aluminum µg/L		100.0 J	100
Barium µg/L		32.0 J	10.0
Beryllium µg/L		0.61 B	5.0

Analyte and unit	Date sampled	Result	RL
Cadmium µg/L	06/15/2004	0.035 B	1.0
Calcium µg/L	-continued	52000	200
Copper µg/L		8.1 B	20.0
Iron µg/L		53.0 B	100
Lead µg/L		1.4	1.0
Magnesium µg/L		50000	200
Mercury µg/L		0.11 B,J	0.20
Molybdenum µg/L		2.3 B	20.0
Potassium µg/L		8500	3000
Selenium µg/L		4.5 B	5.0
Sodium µg/L		53000	5000
Vanadium µg/L		17.0	10.0
Zinc µg/L		28.0 B	20.0
Total Dissolved Solids mg/L		530	10.0
Nitrate mg/L		1.6	0.10
Nitrite mg/L		0.0032 B	0.01
Sulfate mg/L		140 Q, J	25.0
Total Cyanide mg/L		0.0035 B	0.01

Table 1.--Summary of concentrations of analytes in ground water from monitoring well H at the Sewage Lagoons, Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Acetone µg/L	03/02/1999	1.5 J	10.0
Methylene chloride µg/L		0.26 J	1.0
Aluminum µg/L		61.1 B	100
Arsenic µg/L		4.4 B	5.0
Barium µg/L		33.6	10.0
Calcium µg/L		40200	200
Chromium µg/L		5.4	1.0
Iron µg/L		284	100
Lead µg/L		2.1	1.0
Magnesium µg/L		38000	200
Manganese µg/L		6.0 B	10.0
Nickel µg/L		8.6 B	40.0
Potassium µg/L		6400	5000
Selenium µg/L		7.2	5.0
Sodium µg/L		52500	5000
Tin µg/L		28.4 B	100
Vanadium µg/L		18.0	10.0
Zinc µg/L		138	20.0
Total Dissolved Solids mg/L		492	10.0
Sulfate mg/L		132 Q	25.0
Nitrate mg/L	08/31/1999	1.1	0.10
Methylene chloride µg/L	03/02/2000	0.29 J	1.0
Aluminum µg/L		86.3 B	100
Arsenic µg/L		4.0 B	5.0
Barium µg/L		30.3	10.0
Calcium µg/L		38500	200
Chromium µg/L		2.4	1.0
Copper µg/L		1.1 B	20.0
Iron µg/L		67.0 B	100
Lead µg/L		6.6	1.0
Magnesium µg/L		38000	200
Manganese µg/L		2.2 B	10.0
Potassium µg/L		6720	5000
Selenium µg/L		6.6	5.0
Sodium µg/L		53300	5000

Analyte and unit	Date sampled	Result	RL
Vanadium µg/L	03/02/2000	21.6	10.0
Zinc µg/L	-continued	28.0	20.0
Total Dissolved Solids mg/L		454	10.0
Nitrate mg/L		1.2	0.10
Sulfate mg/L		121 Q	25.0
Total Sulfide mg/L		34.0 B	4.0
Aluminum µg/L	03/22/2001	111	100
Arsenic µg/L		3.4 B	5.0
Barium µg/L		30.3	10.0
Calcium µg/L		43500	200
Chromium µg/L		3.5	1.0
Iron µg/L		54.3 B	100
Lead µg/L		0.38 B	1.0
Magnesium µg/L		40400	200
Manganese µg/L		1.1 B	10.0
Molybdenum µg/L		2.6 B	20.0
Nickel µg/L		6.4 B	40.0
Potassium µg/L		6630	5000
Selenium µg/L		6.7	5.0
Sodium µg/L		57900	5000
Vanadium µg/L		19.4	10.0
Zinc µg/L		53.3	20.0
Total Dissolved Solids mg/L		468	10.0
Nitrate mg/L		1.3	0.50
Sulfate mg/L		126 Q	25.0
Arsenic µg/L	03/14/2002	3.3 B	5.0
Barium µg/L		36.9	10.0
Cadmium µg/L		0.030 B	1.0
Calcium µg/L		53200	200
Chromium µg/L		5.7 J	1.0
Copper µg/L		5.8 B	20.0
Iron µg/L		310	100
Lead µg/L		2.7	1.0
Magnesium µg/L		39200	200
Manganese µg/L		10.6	10.0

Table 1.--Summary of concentrations of analytes in ground water from monitoring well H at the Sewage Lagoons, Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Molybdenum µg/L	03/14/2002	2.8 B	20.0
Nickel µg/L	-continued	9.5 B	40.0
Potassium µg/L		6800	5000
Selenium µg/L		6.7	5.0
Silver µg/L		0.053 B	5.0
Sodium µg/L		55300	5000
Vanadium µg/L		20.1	10.0
Zinc µg/L		81.1	20.0
Total Dissolved Solids mg/L		478	10.0
Nitrate mg/L		1.8	0.50
Nitrite mg/L		0.0027 B	0.010
Sulfate mg/L		129 Q	25.0
Perchlorate µg/L	04/02/2003	2.4	1.0
Antimony µg/L		0.094 B	2.0
Arsenic µg/L		3.8 B	5.0
Barium µg/L		33.0	10.0
Chromium µg/L		7.6 J	1.0
Colbalt µg/L		1.2 B	10.0
Iron µg/L		320	100
Lead µg/L		2.7	1.0
Magnesium µg/L		40000	200
Manganese µg/L		11.0	10.0
Nickel µg/L		4.8 B	40.0
Vanadium µg/L		22.0	10.0
Zinc µg/L		88.0	20.0
Total Dissolved Solids mg/L		460	10.0
Nitrate mg/L		1.6	0.50
Sulfate mg/L		120 Q	25.0
Methylene chloride µg/L	06/15/2004	0.43 J	5.0
Perchlorate µg/L		2.6	0.20
Arsenic µg/L		3.3 B	5.0
Aluminum µg/L		100.0 J	100
Barium µg/L		31.0 J	10.0
Beryllium µg/L		0.68 B	5.0
Calcium µg/L		43000	200
Copper µg/L		2.5 B	20.0
Iron µg/L		150	100

Analyte and unit	Date sampled	Result	RL
Lead µg/L	06/15/2004	0.88 B	1.0
Magnesium µg/L	-continued	41000	200
Manganese µg/L		4.2 B	10.0
Mercury µg/L		0.089 B	0.20
Molybdenum µg/L		2.3 B	20.0
Potassium µg/L		7600	3000
Selenium µg/L		6.7	5.0
Sodium µg/L		57000	5000
Vanadium µg/L		20.0	10.0
Zinc µg/L		32.0 B	20.0
Total Dissolved Solids mg/L		490	10.0
Nitrate mg/L		1.5	0.10
Nitrite mg/L		0.0038 B	0.01
Sulfate mg/L		140 Q, J	25.0

Table 1.--Summary of concentrations of analytes in ground water from monitoring well S at Landfill 5, Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Acetone µg/L	03/03/1999	0.96 J,B	10
Aluminum µg/L		126	100
Arsenic µg/L		5.4	5.0
Barium µg/L		45.2	10.0
Calcium µg/L		45000	200
Chromium µg/L		2.7	1.0
Iron µg/L		124	100
Magnesium µg/L		40500	200
Manganese µg/L		33.0	10.0
Mercury µg/L		0.14 B	0.20
Molybdenum µg/L		8.0 B	20.0
Potassium µg/L		6870	5000
Selenium µg/L		6.8	5.0
Sodium µg/L		53500	5000
Tin µg/L		25.6 B	100
Vanadium µg/L		25.4	10.0
Zinc µg/L		63.0	20.0
Total Organic Halogens µg/L		8.3 B	30.0
Total Organic Carbon mg/L	08/29/1999	0.30 B	1.0
Methylene Chloride µg/L	02/29/2000	0.31 J	1.0
Aluminum µg/L		118	100
Arsenic µg/L		6.5	5.0
Barium µg/L		35.3	10.0
Beryllium µg/L		1.5 B	2.0
Calcium µg/L		43500	200
Chromium µg/L		1.6	1.0
Iron µg/L		33.8 B	100
Lead µg/L		0.12 B	1.0
Magnesium µg/L		40200	200
Manganese µg/L		2.9 B	10.0
Potassium µg/L		6610	5000
Selenium µg/L		10.9	5.0
Sodium µg/L		48400	5000
Vanadium µg/L		26.8	10.0
Zinc µg/L		30.5	20.0

Analyte and unit	Date sampled	Result	RL
Sampled, no detections	08/10/2000	--	--
Aluminum µg/L	03/20/2001	51.0 B	100
Arsenic µg/L		4.7 B	5.0
Barium µg/L		35.6	10.0
Calcium µg/L		43300	200
Chromium µg/L		2.1	1.0
Iron µg/L		45.5 B	100
Magnesium µg/L		41500	200
Manganese µg/L		2.7 B	10.0
Molybdenum µg/L		3.8 B	20.0
Potassium µg/L		6490	5000
Selenium µg/L		6.5	5.0
Sodium µg/L		49800	5000
Vanadium µg/L		29.3	10.0
Zinc µg/L		26.9	20.0
Total Organic Carbon mg/L		0.40 B	1.0
Carbon disulfide µg/L	08/21/2001	3.7	1.0
Chloromethane µg/L	03/13/2002	0.43 J	2.0
Trichloroethene µg/L		1.6	1.0
Arsenic µg/L		4.5 B	5.0
Barium µg/L		31.7	10.0
Calcium µg/L		44700	200
Chromium µg/L		1.8 J	1.0
Iron µg/L		28.1 B	100
Magnesium µg/L		42900	200
Manganese µg/L		3.6 B	10.0
Molybdenum µg/L		5.1 B	20.0
Potassium µg/L		6590	5000
Selenium µg/L		5.9	5.0
Sodium µg/L		51600	5000
Vanadium µg/L		25.3	10.0
Zinc µg/L		18.0 B	20.0
Total Organic Carbon mg/L		0.43 B,J	1.0
Total Cyanide mg/L		0.0052 B	0.010

Table 1.--Summary of concentrations of analytes in ground water from monitoring well S at Landfill 5, Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Perchlorate µg/L	08/15/2002	4.6 B	20.0
Total Organic Carbon mg/L		0.42 B	1.0
Perchlorate µg/L	03/19/2003	2.4	1.0
Arsenic µg/L		5.5 J	5.0
Barium µg/L		32.0	10.0
Calcium µg/L		46000	200
Chromium µg/L		2.3 J	2.0
Iron µg/L		21.0 B	100
Magnesium µg/L		42000	200
Manganese µg/L		2.3 B	10.0
Mercury µg/L		0.020 B	0.20
Molybdenum µg/L		3.9 B	20.0
Potassium µg/L		6100	3000
Selenium µg/L		7.3	5.0
Silver µg/L		0.068 B	5.0
Sodium µg/L		49000	5000
Vanadium µg/L		29.0	10.0
Zinc µg/L		21.0 J	20.0
Total Organic Carbon mg/L		0.32 B	1.0
Total Cyanide mg/L		0.0059B	0.010
Dichlorodifluoromethane µg/L	08/19/2003	1.7 J	2.0
Trichloroefluoromethane µg/L		0.30 J	2.0
Perchlorate µg/L		2.9	1.0
Total Organic Carbon mg/L		0.79 B	1.0
Perchlorate µg/L	06/14/2004	2.7	0.20
Toluene µg/L		0.29 J	1.0
Arsenic µg/L		4.8 B	5.0
Aluminum µg/L		89.0 B,J	100
Barium µg/L		30.0 J	10.0
Beryllium µg/L		0.58 B	5.0
Calcium µg/L		50000	200
Cadmium µg/L		0.032 B	1.0
Chromium µg/L		2.1 J	2.0
Copper µg/L		28.0	20.0
Iron µg/L		49.0 B	100
Lead µg/L		0.30 B	1.0
Magnesium µg/L	06/14/2004 -continued	47000	200
Manganese µg/L		1.7 B	10.0
Molybdenum µg/L		4.2 B	20.0
Potassium µg/L		7800	3000
Selenium µg/L		6.3	5.0
Silver µg/L		0.072 B	5.0
Sodium µg/L		54000	5000
Vanadium µg/L		30.0	10.0
Zinc µg/L		35.0 B	20.0
Total Organic Halogens µg/L		16.0 B	20.0
Total Dissolved Solids mg/L		540	10.0
Nitrate mg/L		0.94	0.10
Nitrite mg/L		0.0042B	0.01
Sulfate mg/L		150 Q	25.0

Table 1.--Summary of concentrations of analytes in ground water from monitoring well T at Landfill 5, Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Aluminum µg/L	03/04/1999	47.5 B	100
Arsenic µg/L		5.8	5.0
Barium µg/L		35.2	10.0
Calcium µg/L		44600	200
Chromium µg/L		1.0	1.0
Magnesium µg/L		40100	200
Manganese µg/L		15.4	10.0
Mercury µg/L		0.19 B	0.20
Molybdenum µg/L		6.6 B	20.0
Potassium µg/L		6590	5000
Selenium µg/L		8.5	5.0
Sodium µg/L		55400	5000
Vanadium µg/L		25.5	10.0
Zinc µg/L		29.9	20.0
Total Organic Carbon mg/L	08/30/1999	0.40 B	1.0
Aluminum µg/L	02/29/2000	108	100
Arsenic µg/L		6.9	5.0
Barium µg/L		29.3	10.0
Beryllium µg/L		1.5 B	2.0
Calcium µg/L		45500	200
Chromium µg/L		2.3	1.0
Iron µg/L		86.6 B	100
Lead µg/L		0.17 B	1.0
Magnesium µg/L		41800	200
Potassium µg/L		6970	5000
Selenium µg/L		13.2	5.0
Sodium µg/L		52900	5000
Vanadium µg/L		26.5	10.0
Zinc µg/L		13.3 B	20.0
Total Organic Halogens µg/L	08/10/2000	3.0 B	30.0
Perchlorate µg/L	03/21/2001	19.9 B	20.0
Aluminum µg/L		83.2 B	100
Arsenic µg/L		4.9 B	5.0

Analyte and unit	Date sampled	Result	RL
Barium µg/L	03/21/2001	35.4	10.0
Calcium µg/L	-continued	47800	200
Chromium µg/L		3.5	1.0
Iron µg/L		86.6 B	100
Magnesium µg/L		44200	200
Manganese µg/L		3.2 B	10.0
Molybdenum µg/L		4.6 B	20.0
Potassium µg/L		6180	5000
Selenium µg/L		8.4	5.0
Sodium µg/L		55400	5000
Vanadium µg/L		28.4	10.0
Zinc µg/L		17.9	20.0
Total Sulfide mg/L		0.61 B	4.0
Total Organic Carbon mg/L	08/21/2001	0.78 B	1.0
Aluminum µg/L	03/13/2002	55.8 B	100
Arsenic µg/L		4.7 B	5.0
Barium µg/L		33.5	10.0
Calcium µg/L		46900	200
Chromium µg/L		2.5 J	1.0
Iron µg/L		115	100
Magnesium µg/L		44600	200
Manganese µg/L		4.2 B	10.0
Molybdenum µg/L		3.8 B	20.0
Potassium µg/L		6800	5000
Selenium µg/L		7.8	5.0
Silver µg/L		0.030 B	1.0
Sodium µg/L		57000	5000
Vanadium µg/L		24.8	10.0
Zinc µg/L		12.0 B	20.0
Total Organic Carbon mg/L		1.1 J	1.0
Total Cyanide mg/L		0.0056 B	0.010
Chloromethane µg/L	08/15/2002	60.0 J	2.0
Perchlorate µg/L		4.6 B	20.0
Total Organic Carbon mg/L		0.60 B,J	1.0

Table 1.--Summary of concentrations of analytes in ground water from monitoring well T at Landfill 5, Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Perchlorate µg/L	08/15/2002	4.6 B	20.0
Total Organic Carbon mg/L		0.42 B	1.0
Perchlorate µg/L	03/19/2003	2.3	1.0
Aluminum µg/L		53.0 B	100
Arsenic µg/L		5.6 J	5.0
Barium µg/L		34.0	10.0
Calcium µg/L		47000	200
Chromium µg/L		4.6 J	2.0
Copper µg/L		0.80 B	20.0
Iron µg/L		130	100
Lead µg/L		0.21 B	1.0
Magnesium µg/L		41000	200
Manganese µg/L		4.9 B	10.0
Mercury µg/L		0.021 B	0.20
Molybdenum µg/L		4.6 B	20.0
Nickel µg/L		1.9 B	40.0
Potassium µg/L		6600	3000
Selenium µg/L		6.9	5.0
Silver µg/L		0.21 B	5.0
Sodium µg/L		54000	5000
Vanadium µg/L		30.0	10.0
Zinc µg/L		20.0 J	20.0
Methylene chloride µg/L	08/19/2003	0.33 J	5.0
Perchlorate µg/L		2.7	1.0
Total Organic Carbon mg/L		0.52 B	1.0
Methylene chloride µg/L	06/15/2004	0.30 J	5.0
Perchlorate µg/L		2.3	0.01
Arsenic µg/L		4.7 B	5.0
Aluminum µg/L		62.0 B,J	100
Barium µg/L		29.0 J	10.0
Beryllium µg/L		0.61 B	5.0
Calcium µg/L		44000	200
Chromium µg/L		1.6 J	2.0
Copper µg/L		1.0 B	20.0
Iron µg/L		53.0 B	100
Lead µg/L		0.11 B	1.0

Analyte and unit	Date sampled	Result	RL
Magnesium µg/L	06/15/2004	41000	200
Manganese µg/L	-continued	1.6 B	10.0
Mecury µg/L		0.086 B	0.20
Molybdenum µg/L		4.6 B	20.0
Potassium µg/L		7000	3000
Selenium µg/L		6.2	5.0
Sodium µg/L		54000	5000
Vanadium µg/L		30.0	10.0
Total Dissolved Solids mg/L		480	10.0
Nitrate mg/L		3.1	0.10
Nitrite mg/L		0.0037B	0.010
Sulfate mg/L		140 J,Q	25.0

Table 1.--Summary of concentrations of analytes in ground water from monitoring well U at Landfill 5. Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Aluminum µg/L	03/04/1999	98.0 B	100
Arsenic µg/L		5.7	5.0
Barium µg/L		46.0	10.0
Beryllium µg/L		1.0 B	2.0
Calcium µg/L		46000	200
Chromium µg/L		1.0	1.0
Magnesium µg/L		39800	200
Manganese µg/L		6.7 B	10.0
Mercury µg/L		0.16 B	0.20
Molybdenum µg/L		3.0 B	20.0
Potassium µg/L		7230	5000
Selenium µg/L		7.6	5.0
Sodium µg/L		57300	5000
Vanadium µg/L		24.7	10.0
Total Organic Halogens µg/L		21.6 B	30.0
Sampled, no detections	08/30/1999	--	--
Aluminum µg/L	02/29/2000	112	100
Arsenic µg/L		5.7	5.0
Barium µg/L		27.7	10.0
Beryllium µg/L		1.5 B	2.0
Calcium µg/L		43400	200
Chromium µg/L		0.91 B	1.0
Iron µg/L		23.6 B	100
Lead µg/L		0.12 B	1.0
Magnesium µg/L		38700	200
Potassium µg/L		6630	5000
Selenium µg/L		9.9	5.0
Sodium µg/L		52900	5000
Vanadium µg/L		25.0	10.0
Total Organic Halogens µg/L		3.0 B	30.0
Sampled, no detections	08/10/2000	--	--
Dichlorodifluoromethane µg/L	03/21/2001	0.41 J	2.0
Trichlorofluoromethane µg/L		0.57 J	2.0

Analyte and unit	Date sampled	Result	RL
Aluminum µg/L	03/21/2001	103	100
Arsenic µg/L	-continued	4.2 B	5.0
Barium µg/L		36.8	10.0
Calcium µg/L		47500	200
Chromium µg/L		2.7	1.0
Iron µg/L		79.3 B	100
Magnesium µg/L		36800	200
Manganese µg/L		3.1 B	10.0
Molybdenum µg/L		3.9 B	20.0
Potassium µg/L		6310	5000
Selenium µg/L		7.1	5.0
Sodium µg/L		53500	5000
Vanadium µg/L		25.6	10.0
Zinc µg/L		14.1 B	20.0
Total Sulfide mg/L		0.64 B	4.0
Dichlorodifluoromethane µg/L	08/21/2001	0.36 J	2.0
Trichlorofluoromethane µg/L		0.45 J	2.0
Aluminum µg/L	03/13/2002	20.4 B	100
Arsenic µg/L		4.3 B	5.0
Barium µg/L		26.9	10.0
Calcium µg/L		44200	200
Chromium µg/L		1.8 J	1.0
Iron µg/L		20.9 B	100
Magnesium µg/L		39900	200
Manganese µg/L		2.1 B	10.0
Molybdenum µg/L		4.7 B	20.0
Potassium µg/L		6550	5000
Selenium µg/L		6.3	5.0
Sodium µg/L		55700	5000
Vanadium µg/L		23.8	10.0
Zinc µg/L		5.3 B	20.0
Total Organic Carbon mg/L		1.2 J	1.0
Total Cyanide mg/L		0.0081 B	0.010
Total Organic Carbon mg/L	08/15/2002	0.29 B,J	1.0

Table 1.--Summary of concentrations of analytes in ground water from monitoring well U at Landfill 5, Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Perchlorate µg/L	03/19/2003	2.3	1.0
Arsenic µg/L		5.0 J	5.0
Barium µg/L		29.0	10.0
Calcium µg/L		44000	200
Chromium µg/L		1.7 B,J	2.0
Iron µg/L		19.0 B	100
Magnesium µg/L		39000	200
Manganese µg/L		1.8 B	10.0
Mercury µg/L		0.019 B	0.20
Molybdenum µg/L		4.6 B	20.0
Potassium µg/L		6000	3000
Selenium µg/L		5.9	5.0
Sodium µg/L		52000	5000
Vanadium µg/L		29.0	10.0
Zinc µg/L		15.0 B,J	20.0
Methylene chloride µg/L	08/19/2003	0.29 J	5.0
Perchlorate µg/L		2.4	1.0
Total Organic Carbon mg/L		0.32 B	1.0
bis(2-Ethylhexylphalate) µg/L	06/16/2004	9.7 J	10.0
Perchlorate µg/L		2.3 B	0.10
Arsenic µg/L		4.7 B	5.0
Aluminum µg/L		71.0 B,J	100
Barium µg/L		28.0 J	10.0
Beryllium µg/L		0.69 B	5.0
Cadmium µg/L		0.12 B	1.0
Calcium µg/L		47000	200
Chromium µg/L		1.4 B,J	2.0
Iron µg/L		27.0 B	100
Lead µg/L		0.24 B	1.0
Magnesium µg/L		41000	200
Manganese µg/L		1.0 B	10.0
Mecury µg/L		0.090 B	0.20
Molybdenum µg/L		4.7 B	20.0
Potassium µg/L		7100	3000
Selenium µg/L		5.9	5.0
Sodium µg/L		55000	5000
Vanadium µg/L		30.0	10.0

Analyte and unit	Date sampled	Result	RL
Total Dissolved Solids mg/L	06/16/2004	460	10.0
Nitrate mg/L	-continued	0.75	0.10
Nitrite mg/L		0.0031B	0.010
Sulfate mg/L		130 Q	25.0

Table 1.--Summary of concentrations of analytes in ground water from monitoring well V, NW corner of Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Benzyl alcohol µg/L	06/14/2004	1.4 J,B	10.0
Perchlorate µg/L		5.6	0.50
Toluene µg/L		0.65 J	1.0
Arsenic µg/L		4.5 B	5.0
Aluminum µg/L		80.0 B,J	100
Barium µg/L		31.0 J	10.0
Beryllium µg/L		0.72 B	5.0
Calcium µg/L		72000	200
Chromium µg/L		1.3 B,J	2.0
Iron µg/L		55.0 B	100
Lead µg/L		0.11 B	1.0
Magnesium µg/L		63000	200
Manganese µg/L		24.0	10.0
Molybdenum µg/L		3.2 B	20.0
Potassium µg/L		8700	3000
Selenium µg/L		10.0	5.0
Sodium µg/L		80000	5000
Vanadium µg/L		22.0	10.0
Zinc µg/L		12.0 B	20.0
Total Dissolved Solids mg/L		760	10.0
Nitrate mg/L		3.9	0.10
Nitrite mg/L		0.0049B	0.01
Sulfate mg/L		220 Q	25.0
Total Organic Carbon mg/L		0.70 B	1.0
Total Cyanide mg/L		0.0033B	0.01

Analyte and unit	Date sampled	Result	RL

Table 1.--Summary of concentrations of analytes in ground water from monitoring well W, NE section of Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Methylene chloride µg/L	06/15/2004	0.37 J	5.0
Perchlorate µg/L		0.63	0.05
Toluene µg/L		0.17 J	1.0
Arsenic µg/L		2.0 B	5.0
Aluminum µg/L		110	100
Barium µg/L		22.0 J	10.0
Beryllium µg/L		0.69 B	5.0
Calcium µg/L		58000	200
Cadmium µg/L		0.029 B	1.0
Chromium µg/L		1.1 B,J	2.0
Copper µg/L		2.8 B	20.0
Iron µg/L		110	100
Lead µg/L		0.78 B	1.0
Magnesium µg/L		48000	200
Manganese µg/L		2.8 B	10.0
Mecury µg/L		0.19 B	0.20
Molybdenum µg/L		12.0 B	20.0
Potassium µg/L		11000	3000
Selenium µg/L		2.0 B	5.0
Sodium µg/L		98000	5000
Vanadium µg/L		7.3 B	10.0
Zinc µg/L		10.0	20.0
Total Dissolved Solids mg/L		700	10.0
Nitrate mg/L		9.8	0.10
Nitrite mg/L		0.0061B	0.010
Sulfate mg/L		220 J,Q	25.0

Analyte and unit	Date sampled	Result	RL

Table 1.--Summary of concentrations of analytes in ground water from monitoring well X, SW section of Cannon Air Force Base, New Mexico

[RL, reporting limit; µg/L, micrograms per liter; J, result is detected below the reporting limit or is an estimated concentration; B, estimated result, result less than RL; --, no data; mg/L, milligrams per liter; Q, reporting limit is elevated due to high analyte levels; G, reporting limit is elevated due to matrix interference]

Analyte and unit	Date sampled	Result	RL
Methylene chloride µg/L	06/15/2004	0.34 J	5.0
Perchlorate µg/L		1.1	0.05
Toluene µg/L		0.35 J	1.0
Arsenic µg/L		6.4	5.0
Aluminum µg/L		58.0 B,J	100
Barium µg/L		61.0 J	10.0
Beryllium µg/L		0.64 B	5.0
Calcium µg/L		28000	200
Chromium µg/L		1.7 B,J	2.0
Iron µg/L		22.0 B	100
Lead µg/L		0.18 B	1.0
Magnesium µg/L		24000	200
Mecury µg/L		0.089 B	0.20
Molybdenum µg/L		8.7 B	20.0
Potassium µg/L		6500	3000
Selenium µg/L		2.4 B	5.0
Sodium µg/L		47000	5000
Vanadium µg/L		48.0	10.0
Total Dissolved Solids mg/L		310	10.0
Nitrate mg/L		1.5	0.10
Nitrite mg/L		0.003 B	0.010
Sulfate mg/L		48.0 J	5.0
Total Cyanide mg/L		0.0030B	0.010

Analyte and unit	Date sampled	Result	RL

Table 2.--Records of water-level measurements from monitoring wells on Cannon Air Force Base, New Mexico

Well Locations: LF5 (Landfill 5); SL (Sewage Lagoons); PM (Perimeter)
[TOC, top of casing; --, no data; *, water quality samples not collected; #, well abandoned (water level below screen interval)]

Well identification, diameter, and depth below TOC	Date	Water level (feet below TOC)	Altitude of water level (feet above sea level)
Well-A (LF5)	02/21/1994	268.79	3,997.01
4 inches	08/09/1994	270.28	3,995.52
343 feet	02/22/1995	271.73	3,994.07
	08/21/1995	273.30	3,992.50
	02/28/1996	275.14	3,990.66
	*08/22/2001	287.90	3,977.90
	*03/12/2002	288.89	3,976.91
	*08/20/2003	292.91	3,972.89
	*11/04/2003	293.38	3,972.42
	*12/15/2003	293.86	3,971.94
	06/16/2004	294.79	3,971.01

Well identification, diameter, and depth below TOC	Date	Water level (feet below TOC)	Altitude of water level (feet above sea level)
Well-B (LF5)	02/21/1994	272.49	3,991.81
4 inches	02/22/1995	276.26	3,988.04
362.3 feet	08/23/1995	277.45	3,986.85
	03/04/1997	283.52	3,980.78
	05/29/1997	283.74	3,980.56
	*07/23/1997	284.79	3,979.51
	08/21/1997	285.33	3,978.97
	*10/29/1997	286.75	3,977.55
	*01/05/1998	286.15	3,978.15
	04/06/1998	286.72	3,977.58
	08/12/1998	290.23	3,974.07
	*12/07/1998	291.34	3,972.96
	03/01/1999	290.65	3,973.65
	08/29/1999	292.67	3,971.63
	*09/22/1999	292.76	3,971.54
	03/01/2000	292.45	3,971.85
	08/09/2000	295.38	3,968.92
	*09/22/2000	295.60	3,968.70
	*01/31/2001	294.07	3,970.23
	03/21/2001	295.51	3,968.79
	*07/17/2001	296.82	3,967.48
	08/21/2001	297.05	3,967.25
	03/13/2002	296.55	3,967.75
	08/15/2002	300.30	3,964.00
	03/18/2003	300.15	3,964.15
	08/20/2003	302.85	3,961.45
	*11/04/2003	301.67	3,962.63
	*12/15/2003	303.11	3,961.19
	06/16/2004	304.43	3,959.87

Table 2.--Records of water-level measurements from monitoring wells on Cannon Air Force Base, New Mexico

Well Locations: LF5 (Landfill 5); SL (Sewage Lagoons); PM (Perimeter)
[TOC, top of casing; --, no data; *, water quality samples not collected; #, well abandoned (water level below screen interval)]

Well identification, diameter, and depth below TOC	Date	Water level (feet below TOC)	Altitude of water level (feet above sea level)
Well C (LF5)	04/06/1998	291.30	3,974.53
4 inches	03/02/1999	295.96	3,969.87
362 feet	08/29/1999	297.46	3,968.37
	03/01/2000	294.24	3,971.59
	08/10/2000	301.75	3,964.08
	03/23/2001	298.18	3,967.65
	08/22/2001	303.04	3,962.79
	03/13/2002	298.53	3,967.30
	08/13/2002	307.72	3,958.11
	03/20/2003	304.22	3,961.61
	08/20/2003	309.47	3,956.36
	06/15/2004	310.41	3,955.42

Well identification, diameter, and depth below TOC	Date	Water level (feet below TOC)	Altitude of water level (feet above sea level)
Well D (LF5)	03/02/1999	289.11	3,974.72
4 inches	08/29/1999	290.97	3,972.86
356.75 feet	03/01/2000	290.12	3,973.71
	08/10/2000	294.33	3,969.50
	03/21/2001	293.62	3,970.21
	08/22/2001	295.88	3,967.95
	03/12/2002	294.33	3,969.50
	08/13/2002	300.13	3,963.70
	03/20/2003	299.03	3,964.80
	08/20/2003	301.94	3,961.89
	06/16/2004	303.27	3,960.56

Table 2.--Records of water-level measurements from monitoring wells on Cannon Air Force Base, New Mexico

Well Locations: LF5 (Landfill 5); SL (Sewage Lagoons); PM (Perimeter)
[TOC, top of casing; --, no data; *, water quality samples not collected; #, well abandoned (water level below screen interval)]

Well identification, diameter, and depth below TOC	Date	Water level (feet below TOC)	Altitude of water level (feet above sea level)
Well E (SL)	09/13/1994	283.46	3,997.66
4 inches	06/27/1995	285.47	3,995.65
370 feet	04/16/1996	286.61	3,994.51
	06/24/1996	287.23	3,993.89
	08/19/1996	287.59	3,993.53
	08/19/1997	288.14	3,992.98
	04/06/1998	288.68	3,992.44
	08/31/1999	291.10	3,990.02
	*03/02/2000	291.65	3,989.47
	03/15/2000	291.84	3,989.28
	03/22/2001	293.95	3,987.17
	03/12/2002	295.24	3,985.88
	03/21/2003	297.73	3,983.39
	06/16/2004	300.57	3,980.55

Well identification, diameter, and depth below TOC	Date	Water level (feet below TOC)	Altitude of water level (feet above sea level)
Well F (SL)	09/12/1994	280.56	3,996.76
4 inches	06/27/1995	282.48	3,994.84
370 feet	04/16/1996	282.74	3,994.58
	06/26/1996	284.07	3,993.25
	08/19/1996	285.96	3,991.36
	08/20/1997	285.32	3,992.00
	04/06/1998	285.78	3,991.54
	08/31/1999	288.31	3,989.01
	03/02/2000	288.72	3,988.60
	*03/22/2001	290.98	3,986.34
	08/21/2001	291.38	3,985.94
	03/14/2002	292.80	3,984.52
	03/18/2003	295.10	3,982.22
	06/16/2004	297.86	3,979.46

Table 2.--Records of water-level measurements from monitoring wells on Cannon Air Force Base, New Mexico

Well Locations: LF5 (Landfill 5); SL (Sewage Lagoons); PM (Perimeter)
[TOC, top of casing; --, no data; *, water quality samples not collected; #, well abandoned (water level below screen interval)]

Well identification, diameter, and depth below TOC	Date	Water level (feet below TOC)	Altitude of water level (feet above sea level)
Well G (SL)	09/13/1994	282.40	3,997.59
4 inches	06/27/1995	284.17	3,995.82
372 feet	04/17/1996	284.98	3,995.01
	06/25/1996	285.95	3,994.04
	08/19/1996	287.05	3,992.94
	08/20/1997	287.55	3,992.44
	04/06/1998	287.92	3,992.07
	03/02/1999	290.12	3,989.87
	08/31/1999	290.69	3,989.30
	03/02/2000	291.08	3,988.91
	03/22/2001	293.43	3,986.56
	03/14/2002	294.68	3,985.31
	03/20/2003	297.53	3,982.46
	06/15/2004	299.96	3,980.03

Well identification, diameter, and depth below TOC	Date	Water level (feet below TOC)	Altitude of water level (feet above sea level)
Well H (SL)	09/13/1993	281.40	3,994.75
4 inches	06/27/1995	283.35	3,992.80
375 feet	04/17/1996	284.20	3,991.95
	06/25/1996	285.15	3,991.00
	08/19/1996	286.38	3,989.77
	08/19/1997	286.68	3,989.47
	04/06/1998	287.31	3,988.84
	03/02/1999	289.66	3,986.49
	08/31/1999	290.22	3,985.93
	03/02/2000	290.68	3,985.47
	03/22/2001	293.12	3,983.03
	03/12/2002	294.37	3,981.78
	*03/20/2003	297.07	3,979.08
	04/02/2003	297.00	3,979.15
	06/15/2004	299.53	3,976.62

Table 2.--Records of water-level measurements from monitoring wells on Cannon Air Force Base, New Mexico

Well Locations: LF5 (Landfill 5); SL (Sewage Lagoons); PM (Perimeter)
[TOC, top of casing; --, no data; *, water quality samples not collected; #, well abandoned (water level below screen interval)]

Well identification, diameter, and depth below TOC	Date	Water level (feet below TOC)	Altitude of water level (feet above sea level)
Well Q (LF5)	11/19/1996	276.20	3,990.69
4 inches	03/04/1997	277.00	3,989.89
296.59 feet	05/27/1997	277.51	3,989.38
	08/18/1997	278.10	3,988.79
	04/06/1998	279.72	3,987.17
	08/12/1998	282.23	3,984.66
	03/02/1999	284.32	3,982.57
	08/29/1999	284.30	3,982.59
	02/28/2000	284.78	3,982.11
	08/10/2000	286.10	3,980.79
	03/20/2001	287.52	3,979.37
	08/22/2001	287.85	3,979.04
	03/12/2002	288.92	3,977.97
	08/13/2002	290.36	3,976.53
	03/19/2003	291.82	3,975.07
	#08/19/2003	292.82	3,974.07

Well identification, diameter, and depth below TOC	Date	Water level (feet below TOC)	Altitude of water level (feet above sea level)
Well S (LF5)	03/02/1999	291.18	3,972.65
4 inches	08/29/1999	292.98	3,970.85
365 feet	02/29/2000	291.77	3,972.06
	08/10/2000	296.29	3,967.54
	03/20/2001	295.86	3,967.97
	08/21/2001	297.72	3,966.11
	03/13/2002	296.43	3,967.40
	08/15/2002	301.75	3,962.08
	03/19/2003	299.19	3,964.64
	08/19/2003	304.04	3,959.79
	06/14/2004	305.68	3,958.15

Table 2.--Records of water-level measurements from monitoring wells on Cannon Air Force Base, New Mexico

Well Locations: LF5 (Landfill 5); SL (Sewage Lagoons); PM (Perimeter)
[TOC. top of casing; --, no data; *, water quality samples not collected; #, well abandoned (water level below screen interval)]

Well identification, diameter, and depth below TOC	Date	Water level (feet below TOC)	Altitude of water level (feet above sea level)
Well T (LF5)	03/02/1999	290.57	3,973.12
4 inches	08/29/1999	291.71	3,971.98
365 feet	02/29/2000	291.16	3,972.53
	08/10/2000	294.77	3,968.92
	03/20/2001	294.80	3,968.89
	08/21/2001	296.34	3,967.35
	03/13/2002	295.71	3,967.98
	08/15/2002	299.86	3,963.83
	03/19/2003	299.27	3,964.42
	08/19/2003	302.38	3,961.31
	06/15/2004	304.28	3,959.41

Well identification, diameter, and depth below TOC	Date	Water level (feet below TOC)	Altitude of water level (feet above sea level)
Well U (LF5)	03/02/1999	290.60	3,974.66
4 inches	08/29/1999	291.48	3,973.78
365 feet	02/29/2000	291.05	3,974.21
	08/10/2000	294.12	3,971.14
	03/20/2001	294.44	3,970.82
	08/21/2001	295.67	3,969.59
	03/13/2002	295.61	3,969.65
	08/15/2002	298.90	3,966.36
	03/19/2003	299.27	3,965.99
	08/19/2003	301.47	3,963.79
	06/16/2004	303.43	3,961.83

Table 2.--Records of water-level measurements from monitoring wells on Cannon Air Force Base, New Mexico

Well Locations: LF5 (Landfill 5); SL (Sewage Lagoons); PM (Perimeter)
[TOC, top of casing; --, no data; *, water quality samples not collected; #, well abandoned (water level below screen interval)]

Well identification, diameter, and depth below TOC	Date	Water level (feet below TOC)	Altitude of water level (feet above sea level)
Well V (PM)	*11/06/2003	331.89	3,992.93
4 inches	*01/16/2004	331.63	3,993.19
365 feet	*03/11/2004	332.18	3,992.64
	*04/20/2004	331.90	3,992.92
	06/14/2004	332.23	3,992.59
Well W (PM)	*03/11/2004	316.40	3,980.55
4 inches	*04/20/2004	316.89	3,980.06
365 feet	06/15/2004	318.52	3,978.43

Well identification, diameter, and depth below TOC	Date	Water level (feet below TOC)	Altitude of water level (feet above sea level)
Well X (PM)	*03/11/2004	271.50	3,993.26
4 inches	*04/20/2004	271.34	3,993.42
336 feet	06/15/2004	271.95	3,992.81

MONITORING WELL IDENTIFICATION REPORT

NEW MEXICO ENVIRONMENT DEPARTMENT
HAZARDOUS AND RADIOACTIVE MATERIALS BUREAU
525 CAMINO DE LOS MARQUEZ, SUITE 4
SANTA FE, NEW MEXICO 87502

FACILITY NAME	Cannon Air Force Base
USGS SITE ID	342218103182601
COUNTY	Curry
WELL NUMBER	A
WELL LOCATION (LONGITUDE)	103° 18' 31.44"
WELL LOCATION (LATITUDE)	34° 22' 18.91"
AQUIFER NAME	Ogallala
AQUIFER CONFINED	_____ UNCONFINED X
WELL INSTALLATION DATE	01-07-1985
DRILLING METHOD	HYDRT (mud rotary)
INNER CASING DIAMETER	4 inches
BOREHOLE DIAMETER	8 inches
CASING MATERIAL	PVC
METHOD OF DEVELOPMENT	AIRFT
ELEV BOTTOM OF BOREHOLE	3,898.83 feet above NAVD88
ELEV BOTTOM OF WELL CASING	3,920.83 feet above NAVD88
ELEV BOTTOM OF SCREENED INT	3,920.83 feet above NAVD88
ELEV OF TOP OF SCREENED INT	3,935.83 feet above NAVD88
MEASURING POINT CORRECTION	1.97 feet
SURVEYED ELEV OF LAND SURFACE	4,263.83 feet above NAVD88

DATE OF REPORT 03-30-05 SIGNATURE Fredrick E. Gebhardt

NAME (TYPED) Fredrick E. Gebhardt

MONITORING WELL IDENTIFICATION REPORT

NEW MEXICO ENVIRONMENT DEPARTMENT
HAZARDOUS AND RADIOACTIVE MATERIALS BUREAU
525 CAMINO DE LOS MARQUEZ, SUITE 4
SANTA FE, NEW MEXICO 87502

FACILITY NAME	Cannon Air Force Base
USGS SITE ID	342203103181001
COUNTY	Curry
WELL NUMBER	B – Landfill 5
WELL LOCATION (LONGITUDE)	103° 18' 10.36"
WELL LOCATION (LATITUDE)	34° 22' 2.67"
AQUIFER NAME	Ogallala
AQUIFER CONFINED	_____ UNCONFINED X
WELL INSTALLATION DATE	11-30-1984
DRILLING METHOD	HYDRT (mud rotary)
INNER CASING DIAMETER	4 inches
BOREHOLE DIAMETER	8 inches
CASING MATERIAL	PVC
METHOD OF DEVELOPMENT	AIRFT
ELEV BOTTOM OF BOREHOLE	3,899.8 feet above NAVD88
ELEV BOTTOM OF WELL CASING	3,899.8 feet above NAVD88
ELEV BOTTOM OF SCREENED INT	3,899.8 feet above NAVD88
ELEV OF TOP OF SCREENED INT	3,914.8 feet above NAVD88
MEASURING POINT CORRECTION	2.2 feet
SURVEYED ELEV OF LAND SURFACE	4,262.1 feet above NAVD88

DATE OF REPORT 03-30-05 SIGNATURE Fredrick E. Gebhardt

NAME (TYPED) Fredrick E. Gebhardt

MONITORING WELL IDENTIFICATION REPORT

NEW MEXICO ENVIRONMENT DEPARTMENT
HAZARDOUS AND RADIOACTIVE MATERIALS BUREAU
525 CAMINO DE LOS MARQUEZ, SUITE 4
SANTA FE, NEW MEXICO 87502

FACILITY NAME	Cannon Air Force Base
USGS SITE ID	342156103180801
COUNTY	Curry
WELL NUMBER	C – Landfill 5
WELL LOCATION (LONGITUDE)	103° 18' 16.5"
WELL LOCATION (LATITUDE)	34° 21' 56.68"
AQUIFER NAME	Ogallala
AQUIFER CONFINED	_____ UNCONFINED X
WELL INSTALLATION DATE	01-11-1985
DRILLING METHOD	HYDRT (mud rotary)
INNER CASING DIAMETER	4 inches
BOREHOLE DIAMETER	8 inches
CASING MATERIAL	PVC
METHOD OF DEVELOPMENT	AIRFT
ELEV BOTTOM OF BOREHOLE	3,901.72 feet above NAVD88
ELEV BOTTOM OF WELL CASING	3,901.72 feet above NAVD88
ELEV BOTTOM OF SCREENED INT	3,901.72 feet above NAVD88
ELEV OF TOP OF SCREENED INT	3,916.72 feet above NAVD88
MEASURING POINT CORRECTION	2.11 feet
SURVEYED ELEV OF LAND SURFACE	4,263.72 feet above NAVD88

DATE OF REPORT 03-30-05 SIGNATURE Fredrick E. Gebhardt

NAME (TYPED) Fredrick E. Gebhardt

MONITORING WELL IDENTIFICATION REPORT

NEW MEXICO ENVIRONMENT DEPARTMENT
HAZARDOUS AND RADIOACTIVE MATERIALS BUREAU
525 CAMINO DE LOS MARQUEZ, SUITE 4
SANTA FE, NEW MEXICO 87502

FACILITY NAME	Cannon Air Force Base
USGS SITE ID	342157103181701
COUNTY	Curry
WELL NUMBER	D – Landfill 5
WELL LOCATION (LONGITUDE)	103° 18' 24.44"
WELL LOCATION (LATITUDE)	34° 21' 57.13"
AQUIFER NAME	Ogallala
AQUIFER CONFINED	_____ UNCONFINED X
WELL INSTALLATION DATE	12/16/1984
DRILLING METHOD	HYDRT (mud rotary)
INNER CASING DIAMETER	4 inches
BOREHOLE DIAMETER	8 inches
CASING MATERIAL	PVC
METHOD OF DEVELOPMENT	AIRFT
ELEV BOTTOM OF BOREHOLE	3,905.19 feet above NAVD88
ELEV BOTTOM OF WELL CASING	3,905.19 feet above NAVD88
ELEV BOTTOM OF SCREENED INT	3,905.19 feet above NAVD88
ELEV OF TOP OF SCREENED INT	3,920.19 feet above NAVD88
MEASURING POINT CORRECTION	1.89 feet
SURVEYED ELEV OF LAND SURFACE	4,261.94 feet above NAVD88

DATE OF REPORT 03-30-05 SIGNATURE Fredrick E. Gebhardt

NAME (TYPED) Fredrick E. Gebhardt

MONITORING WELL IDENTIFICATION REPORT

NEW MEXICO ENVIRONMENT DEPARTMENT
HAZARDOUS AND RADIOACTIVE MATERIALS BUREAU
525 CAMINO DE LOS MARQUEZ, SUITE 4
SANTA FE, NEW MEXICO 87502

FACILITY NAME	Cannon Air Force Base
USGS SITE ID	342328103182401
COUNTY	Curry
WELL NUMBER	E – Sewage Lagoons
WELL LOCATION (LONGITUDE)	103° 18' 26.23"
WELL LOCATION (LATITUDE)	34° 23' 26.51"
AQUIFER NAME	Ogallala
AQUIFER CONFINED	_____ UNCONFINED X
WELL INSTALLATION DATE	11/17/1985
DRILLING METHOD	HYDRT (mud rotary)
INNER CASING DIAMETER	4 inches
BOREHOLE DIAMETER	8 inches
CASING MATERIAL	PVC
METHOD OF DEVELOPMENT	AIRFT
ELEV BOTTOM OF BOREHOLE	3,906.7 feet above NAVD88
ELEV BOTTOM OF WELL CASING	3,906.7 feet above NAVD88
ELEV BOTTOM OF SCREENED INT	3,909.7 feet above NAVD88
ELEV OF TOP OF SCREENED INT	3,924.7 feet above NAVD88
MEASURING POINT CORRECTION	2.91 feet
SURVEYED ELEV OF LAND SURFACE	4,279.7 feet above NAVD88

DATE OF REPORT 03-30-05 SIGNATURE Fredrick E. Gebhardt

NAME (TYPED) Fredrick E. Gebhardt

MONITORING WELL IDENTIFICATION REPORT

NEW MEXICO ENVIRONMENT DEPARTMENT
HAZARDOUS AND RADIOACTIVE MATERIALS BUREAU
525 CAMINO DE LOS MARQUEZ, SUITE 4
SANTA FE, NEW MEXICO 87502

FACILITY NAME	Cannon Air Force Base
USGS SITE ID	342321103181001
COUNTY	Curry
WELL NUMBER	F – Sewage Lagoons
WELL LOCATION (LONGITUDE)	103° 18' 14.32"
WELL LOCATION (LATITUDE)	34° 23' 21.29"
AQUIFER NAME	Ogallala
AQUIFER CONFINED	_____ UNCONFINED X
WELL INSTALLATION DATE	11/19/1985
DRILLING METHOD	HYDRT (mud rotary)
INNER CASING DIAMETER	4 inches
BOREHOLE DIAMETER	8 inches
CASING MATERIAL	PVC
METHOD OF DEVELOPMENT	AIRFT
ELEV BOTTOM OF BOREHOLE	3,899.93 feet above NAVD88
ELEV BOTTOM OF WELL CASING	3,899.93 feet above NAVD88
ELEV BOTTOM OF SCREENED INT	3,904.93 feet above NAVD88
ELEV OF TOP OF SCREENED INT	3,919.93 feet above NAVD88
MEASURING POINT CORRECTION	3.57 feet
SURVEYED ELEV OF LAND SURFACE	4,274.93 feet above NAVD88

DATE OF REPORT 03-30-05 SIGNATURE Fredrick E. Gebhardt

NAME (TYPED) Fredrick E. Gebhardt

MONITORING WELL IDENTIFICATION REPORT

NEW MEXICO ENVIRONMENT DEPARTMENT
HAZARDOUS AND RADIOACTIVE MATERIALS BUREAU
525 CAMINO DE LOS MARQUEZ, SUITE 4
SANTA FE, NEW MEXICO 87502

FACILITY NAME	Cannon Air Force Base
USGS SITE ID	342313103180801
COUNTY	Curry
WELL NUMBER	G – Sewage Lagoons
WELL LOCATION (LONGITUDE)	103° 18' 12.07"
WELL LOCATION (LATITUDE)	34° 23' 12.86"
AQUIFER NAME	Ogallala
AQUIFER CONFINED	_____ UNCONFINED X
WELL INSTALLATION DATE	11/10/1985
DRILLING METHOD	HYDRT (mud rotary)
INNER CASING DIAMETER	4 inches
BOREHOLE DIAMETER	8 inches
CASING MATERIAL	PVC
METHOD OF DEVELOPMENT	AIRFT
ELEV BOTTOM OF BOREHOLE	3,904.46 feet above NAVD88
ELEV BOTTOM OF WELL CASING	3,904.46 feet above NAVD88
ELEV BOTTOM OF SCREENED INT	3,904.46 feet above NAVD88
ELEV OF TOP OF SCREENED INT	3,919.46 feet above NAVD88
MEASURING POINT CORRECTION	3.09 feet
SURVEYED ELEV OF LAND SURFACE	4,276.46 feet above NAVD88

DATE OF REPORT 03-30-05 SIGNATURE Fredrick E. Gebhardt

NAME (TYPED) Fredrick E. Gebhardt

MONITORING WELL IDENTIFICATION REPORT

NEW MEXICO ENVIRONMENT DEPARTMENT
HAZARDOUS AND RADIOACTIVE MATERIALS BUREAU
525 CAMINO DE LOS MARQUEZ, SUITE 4
SANTA FE, NEW MEXICO 87502

FACILITY NAME	Cannon Air Force Base
USGS SITE ID	342307103181601
COUNTY	Curry
WELL NUMBER	H – Sewage Lagoons
WELL LOCATION (LONGITUDE)	103° 18' 17.43"
WELL LOCATION (LATITUDE)	34° 23' 7.72"
AQUIFER NAME	Ogallala
AQUIFER CONFINED	_____ UNCONFINED X
WELL INSTALLATION DATE	11/18/1985
DRILLING METHOD	HYDRT (mud rotary)
INNER CASING DIAMETER	4 inches
BOREHOLE DIAMETER	8 inches
CASING MATERIAL	PVC
METHOD OF DEVELOPMENT	AIRFT
ELEV BOTTOM OF BOREHOLE	3,900.98 feet above NAVD88
ELEV BOTTOM OF WELL CASING	3,900.98 feet above NAVD88
ELEV BOTTOM OF SCREENED INT	3,905.98 feet above NAVD88
ELEV OF TOP OF SCREENED INT	3,920.98 feet above NAVD88
MEASURING POINT CORRECTION	3.0 feet
SURVEYED ELEV OF LAND SURFACE	4,275.98 feet above NAVD88

DATE OF REPORT 03-30-05 SIGNATURE Fredrick E. Gebhardt

NAME (TYPED) Fredrick E. Gebhardt

MONITORING WELL IDENTIFICATION REPORT

NEW MEXICO ENVIRONMENT DEPARTMENT
HAZARDOUS AND RADIOACTIVE MATERIALS BUREAU
525 CAMINO DE LOS MARQUEZ, SUITE 4
SANTA FE, NEW MEXICO 87502

FACILITY NAME	Cannon Air Force Base
USGS SITE ID	342157103181101
COUNTY	Curry
WELL NUMBER	S – Landfill 5
WELL LOCATION (LONGITUDE)	103° 18' 10.7"
WELL LOCATION (LATITUDE)	34° 21' 57.01"
AQUIFER NAME	Ogallala
AQUIFER CONFINED	_____ UNCONFINED X
WELL INSTALLATION DATE	12/06/1998
DRILLING METHOD	HYDRT (mud rotary)
INNER CASING DIAMETER	4 inches
BOREHOLE DIAMETER	8 inches
CASING MATERIAL	PVC (schedule 80)
METHOD OF DEVELOPMENT	BAILD
ELEV BOTTOM OF BOREHOLE	3,895.72 feet above NAVD88
ELEV BOTTOM OF WELL CASING	3,895.72 feet above NAVD88
ELEV BOTTOM OF SCREENED INT	3,936.72 feet above NAVD88
ELEV OF TOP OF SCREENED INT	3,976.72 feet above NAVD88
MEASURING POINT CORRECTION	2.06 feet
SURVEYED ELEV OF LAND SURFACE	4,260.72 feet above NAVD88

DATE OF REPORT 03-30-05 SIGNATURE Fredrick E. Gebhardt

NAME (TYPED) Fredrick E. Gebhardt

MONITORING WELL IDENTIFICATION REPORT

NEW MEXICO ENVIRONMENT DEPARTMENT
HAZARDOUS AND RADIOACTIVE MATERIALS BUREAU
525 CAMINO DE LOS MARQUEZ, SUITE 4
SANTA FE, NEW MEXICO 87502

FACILITY NAME	Cannon Air Force Base
USGS SITE ID	342200103180901
COUNTY	Curry
WELL NUMBER	T – Landfill 5
WELL LOCATION (LONGITUDE)	103° 18' 9.47"
WELL LOCATION (LATITUDE)	34° 22' 0.07"
AQUIFER NAME	Ogallala
AQUIFER CONFINED	_____ UNCONFINED X
WELL INSTALLATION DATE	12/10/1998
DRILLING METHOD	HYDRT (mud rotary)
INNER CASING DIAMETER	4 inches
BOREHOLE DIAMETER	8 inches
CASING MATERIAL	PVC (schedule 80)
METHOD OF DEVELOPMENT	BAILD
ELEV BOTTOM OF BOREHOLE	3,895.82 feet above NAVD88
ELEV BOTTOM OF WELL CASING	3,895.82 feet above NAVD88
ELEV BOTTOM OF SCREENED INT	3,936.82 feet above NAVD88
ELEV OF TOP OF SCREENED INT	3,976.82 feet above NAVD88
MEASURING POINT CORRECTION	1.87 feet
SURVEYED ELEV OF LAND SURFACE	4,260.82 feet above NAVD88

DATE OF REPORT 03-30-05 SIGNATURE Fredrick E. Gebhardt

NAME (TYPED) Fredrick E. Gebhardt

MONITORING WELL IDENTIFICATION REPORT

NEW MEXICO ENVIRONMENT DEPARTMENT
HAZARDOUS AND RADIOACTIVE MATERIALS BUREAU
525 CAMINO DE LOS MARQUEZ, SUITE 4
SANTA FE, NEW MEXICO 87502

FACILITY NAME	Cannon Air Force Base
USGS SITE ID	342205103181001
COUNTY	Curry
WELL NUMBER	U – Landfill 5
WELL LOCATION (LONGITUDE)	103° 18' 9.93"
WELL LOCATION (LATITUDE)	34° 22' 4.81"
AQUIFER NAME	Ogallala
AQUIFER CONFINED	_____ UNCONFINED X
WELL INSTALLATION DATE	12/14/1998
DRILLING METHOD	HYDRT (mud rotary)
INNER CASING DIAMETER	4 inches
BOREHOLE DIAMETER	8 inches
CASING MATERIAL	PVC (schedule 80)
METHOD OF DEVELOPMENT	BAILD
ELEV BOTTOM OF BOREHOLE	3,897.27 feet above NAVD88
ELEV BOTTOM OF WELL CASING	3,897.27 feet above NAVD88
ELEV BOTTOM OF SCREENED INT	3,938.27 feet above NAVD88
ELEV OF TOP OF SCREENED INT	3,978.27 feet above NAVD88
MEASURING POINT CORRECTION	1.93 feet
SURVEYED ELEV OF LAND SURFACE	4,262.27 feet above NAVD88

DATE OF REPORT 03-30-05 SIGNATURE Fredrick E. Gebhardt

NAME (TYPED) Fredrick E. Gebhardt

MONITORING WELL IDENTIFICATION REPORT

NEW MEXICO ENVIRONMENT DEPARTMENT
HAZARDOUS AND RADIOACTIVE MATERIALS BUREAU
525 CAMINO DE LOS MARQUEZ, SUITE 4
SANTA FE, NEW MEXICO 87502

FACILITY NAME	Cannon Air Force Base
USGS SITE ID	342418103201201
COUNTY	Curry
WELL NUMBER	V
WELL LOCATION (LONGITUDE)	103° 20' 12.62"
WELL LOCATION (LATITUDE)	34° 24' 18"
AQUIFER NAME	Ogallala
AQUIFER CONFINED	_____ UNCONFINED X
WELL INSTALLATION DATE	08/08/2001
DRILLING METHOD	HYDRT (mud rotary)
INNER CASING DIAMETER	4 inches
BOREHOLE DIAMETER	8 inches
CASING MATERIAL	PVC (schedule 80)
METHOD OF DEVELOPMENT	BAILD
ELEV BOTTOM OF BOREHOLE	3,954.82 feet above NAVD88
ELEV BOTTOM OF WELL CASING	3,954.82 feet above NAVD88
ELEV BOTTOM OF SCREENED INT	3,959.82 feet above NAVD88
ELEV OF TOP OF SCREENED INT	4,019.82 feet above NAVD88
MEASURING POINT CORRECTION	1.59 feet
SURVEYED ELEV OF LAND SURFACE	4,324.82 feet above NAVD88

DATE OF REPORT 03-30-05 SIGNATURE Fredrick E. Gebhardt

NAME (TYPED) Fredrick E. Gebhardt

MONITORING WELL IDENTIFICATION REPORT

NEW MEXICO ENVIRONMENT DEPARTMENT
HAZARDOUS AND RADIOACTIVE MATERIALS BUREAU
525 CAMINO DE LOS MARQUEZ, SUITE 4
SANTA FE, NEW MEXICO 87502

FACILITY NAME	Cannon Air Force Base
USGS SITE ID	342348103175801
COUNTY	Curry
WELL NUMBER	W
WELL LOCATION (LONGITUDE)	103° 17' 57.65"
WELL LOCATION (LATITUDE)	34° 23' 48.64"
AQUIFER NAME	Ogallala
AQUIFER CONFINED	_____ UNCONFINED X
WELL INSTALLATION DATE	06/01/2002
DRILLING METHOD	HYDRT (mud rotary)
INNER CASING DIAMETER	4 inches
BOREHOLE DIAMETER	8 inches
CASING MATERIAL	PVC (schedule 80)
METHOD OF DEVELOPMENT	BAILD
ELEV BOTTOM OF BOREHOLE	3,915.45 feet above NAVD88
ELEV BOTTOM OF WELL CASING	3,931.95 feet above NAVD88
ELEV BOTTOM OF SCREENED INT	3,936.95 feet above NAVD88
ELEV OF TOP OF SCREENED INT	3,996.95 feet above NAVD88
MEASURING POINT CORRECTION	2.08 feet
SURVEYED ELEV OF LAND SURFACE	4,296.95 feet above NAVD88

DATE OF REPORT 03-30-05 SIGNATURE Fredrick E. Gebhardt

NAME (TYPED) Fredrick E. Gebhardt

MONITORING WELL IDENTIFICATION REPORT

NEW MEXICO ENVIRONMENT DEPARTMENT
HAZARDOUS AND RADIOACTIVE MATERIALS BUREAU
525 CAMINO DE LOS MARQUEZ, SUITE 4
SANTA FE, NEW MEXICO 87502

FACILITY NAME	Cannon Air Force Base
USGS SITE ID	342222103194301
COUNTY	Curry
WELL NUMBER	X
WELL LOCATION (LONGITUDE)	103° 19' 43.14"
WELL LOCATION (LATITUDE)	34° 22' 22.16"
AQUIFER NAME	Ogallala
AQUIFER CONFINED	_____ UNCONFINED X
WELL INSTALLATION DATE	02/26/2004
DRILLING METHOD	HYDRT (mud rotary)
INNER CASING DIAMETER	4 inches
BOREHOLE DIAMETER	8 inches
CASING MATERIAL	PVC (schedule 80)
METHOD OF DEVELOPMENT	BAILD
ELEV BOTTOM OF BOREHOLE	3,924.76 feet above NAVD88
ELEV BOTTOM OF WELL CASING	3,928.76 feet above NAVD88
ELEV BOTTOM OF SCREENED INT	3,933.76 feet above NAVD88
ELEV OF TOP OF SCREENED INT	3,973.76 feet above NAVD88
MEASURING POINT CORRECTION	1.24 feet
SURVEYED ELEV OF LAND SURFACE	4,264.76 feet above NAVD88

DATE OF REPORT 03-30-05 SIGNATURE Fredrick E. Gebhardt

NAME (TYPED) Fredrick E. Gebhardt

MONITORING WELL
ANNUAL SAMPLING REPORT

SAMPLE COLLECTED BY Ralph Wilcox

LABORATORY NAME Severn Trent Services WELL NUMBER CAFB-A

WELL DEPTH 343.0 feet WELL CASING VOLUME 26.6 gallons

DATE SAMPLED 06-16-2004 LABORATORY SAMPLE I.D.# D4F170353

TIME SAMPLED 1150 DATE RECEIVED BY LAB 06-17-2004

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3971.01	06-16-2004
Flow Rate	00059	gal/min	1.29	06-16-2004
Pump Period	72004	min.	31	06-16-2004
Volume Evacuated	73675	gal	40.0	06-16-2004
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: TEFLON Well Sampling Method: BENNETT PUMP

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.62	N/A	06-16-2004	field electrometer
Specific Conductivity	00095	umhos/cm	655	N/A	06-16-2004	field electrometer
T.O.X.	70354	ug/L	ND	10	07-13-2004	SW9020B
T.O.C.	00680	mg/L	ND	1.0	07-13-2004	SW9060

SIGNATURE: Fredrick E. Gebhardt

NAME (PRINTED): Fredrick E. Gebhardt

MONITORING WELL
ANNUAL SAMPLING REPORT

SAMPLE COLLECTED BY Ralph Wilcox

LABORATORY NAME Severn Trent Services WELL NUMBER CAFB-B

WELL DEPTH 362.30 feet WELL CASING VOLUME 31.8 gallons

DATE SAMPLED 06-16-2004 LABORATORY SAMPLE I.D.# D4F170353

TIME SAMPLED 0830 DATE RECEIVED BY LAB 06-17-2004

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3959.87	06-16-2004
Flow Rate	00059	gal/min	1.14	06-16-2004
Pump Period	72004	min.	35	06-16-2004
Volume Evacuated	73675	gal	40.0	06-16-2004
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: TEFLON Well Sampling Method: BENNETT PUMP

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.75	N/A	06-16-2004	field electrometer
Specific Conductivity	00095	umhos/cm	761	N/A	06-16-2004	field electrometer
T.O.X.	70354	ug/L	ND	10	07-13-2004	SW9020B
T.O.C.	00680	mg/L	ND	1.0	07-13-2004	SW9060

SIGNATURE: Fredrick E. Gebhardt

NAME (PRINTED): Fredrick E. Gebhardt

MONITORING WELL
ANNUAL SAMPLING REPORT

SAMPLE COLLECTED BY Jeff Langman

LABORATORY NAME Severn Trent Services WELL NUMBER CAFB-C

WELL DEPTH 362.00 feet WELL CASING VOLUME 28.5 gallons

DATE SAMPLED 06-15-2004 LABORATORY SAMPLE I.D.# D4F160246

TIME SAMPLED 1430 DATE RECEIVED BY LAB 06-16-2004

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3955.42	06-15-2004
Flow Rate	00059	gal/min	0.98	06-15-2004
Pump Period	72004	min.	46	06-15-2004
Volume Evacuated	73675	gal	50.0	06-15-2004
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: TEFLON Well Sampling Method: BENNETT PUMP

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.67	N/A	06-15-2004	field electrometer
Specific Conductivity	00095	umhos/cm	585	N/A	06-15-2004	field electrometer
T.O.X.	70354	ug/L	ND	10	07-19-2004	SW9020B
T.O.C.	00680	mg/L	ND	1.0	07-13-2004	SW9060

SIGNATURE: Fredrick E. Gebhardt

NAME (PRINTED): Fredrick E. Gebhardt

MONITORING WELL
ANNUAL SAMPLING REPORT

SAMPLE COLLECTED BY Jeff Langman

LABORATORY NAME Severn Trent Services WELL NUMBER CAFB-D

WELL DEPTH 356.75 feet WELL CASING VOLUME 29.4 gallons

DATE SAMPLED 06-16-2004 LABORATORY SAMPLE I.D.# D4F170353

TIME SAMPLED 1210 DATE RECEIVED BY LAB 06-17-2004

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3960.56	06-16-2004
Flow Rate	00059	gal/min	1.00	06-16-2004
Pump Period	72004	min.	50	06-16-2004
Volume Evacuated	73675	gal	50.0	06-16-2004
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: TEFLON Well Sampling Method: BENNETT PUMP

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.54	N/A	06-16-2004	field electrometer
Specific Conductivity	00095	umhos/cm	603	N/A	06-16-2004	field electrometer
T.O.X.	70354	ug/L	17	10	07-13-2004	SW9020B
T.O.C.	00680	mg/L	ND	1.0	07-13-2004	SW9060

SIGNATURE: Fredrick E. Gebhardt

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MONITORING WELL
ANNUAL SAMPLING REPORT

SAMPLE COLLECTED BY Jeff Langman

LABORATORY NAME Severn Trent Services WELL NUMBER CAFB-E

WELL DEPTH 373.00 feet WELL CASING VOLUME 39.9 gallons

DATE SAMPLED 06-16-2004 LABORATORY SAMPLE I.D.# D4F170353

TIME SAMPLED 1300 DATE RECEIVED BY LAB 06-17-2004

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3982.04	06-16-2004
Flow Rate	00059	gal/min	1.04	06-16-2004
Pump Period	72004	min.	24	06-16-2004
Volume Evacuated	73675	gal	25.0	06-16-2004
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: TEFLON Well Sampling Method: BENNETT PUMP

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.60	N/A	06-16-2004	field electrometer
Specific Conductivity	00095	umhos/cm	993	N/A	06-16-2004	field electrometer
T.O.X.	70354	ug/L	8.3	10	07-13-2004	SW9020B
T.O.C.	00680	mg/L	ND	1.0	07-13-2004	SW9060

SIGNATURE: Fredrick E. Gebhardt

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MONITORING WELL
ANNUAL SAMPLING REPORT

SAMPLE COLLECTED BY Jeff Langman

LABORATORY NAME Severn Trent Services WELL NUMBER CAFB-F

WELL DEPTH 375.00 feet WELL CASING VOLUME 42.8 gallons

DATE SAMPLED 06-16-2004 LABORATORY SAMPLE I.D.# D4F170353

TIME SAMPLED 1155 DATE RECEIVED BY LAB 06-17-2004

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3980.64	06-16-2004
Flow Rate	00059	gal/min	1.11	06-16-2004
Pump Period	72004	min.	45	06-16-2004
Volume Evacuated	73675	gal	50.0	06-16-2004
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: TEFLON Well Sampling Method: BENNETT PUMP

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.63	N/A	06-16-2004	field electrometer
Specific Conductivity	00095	umhos/cm	892	N/A	06-16-2004	field electrometer
T.O.X.	70354	ug/L	ND	10	07-14-2004	SW9020B
T.O.C.	00680	mg/L	9.5	1.0	07-13-2004	SW9060

SIGNATURE: Fredrick E. Gebhardt

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MONITORING WELL
ANNUAL SAMPLING REPORT

SAMPLE COLLECTED BY Jeff Langman

LABORATORY NAME Severn Trent Services WELL NUMBER CAFB-G

WELL DEPTH 372.00 feet WELL CASING VOLUME 39.8 gallons

DATE SAMPLED 06-15-2004 LABORATORY SAMPLE I.D.# D4F160246

TIME SAMPLED 1120 DATE RECEIVED BY LAB 06-16-2004

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3979.59	06-15-2004
Flow Rate	00059	gal/min	1.00	06-15-2004
Pump Period	72004	min.	50	06-15-2004
Volume Evacuated	73675	gal	50.0	06-15-2004
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: TEFLON Well Sampling Method: BENNETT PUMP

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.36	N/A	06-15-2004	field electrometer
Specific Conductivity	00095	umhos/cm	867	N/A	06-15-2004	field electrometer
T.O.X.	70354	ug/L	ND	10	07-19-2004	SW9020B
T.O.C.	00680	mg/L	ND	1.0	07-13-2004	SW9060

SIGNATURE: Fredrick E. Gebhardt

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MONITORING WELL
ANNUAL SAMPLING REPORT

SAMPLE COLLECTED BY Jeff Langman

LABORATORY NAME Severn Trent Services WELL NUMBER CAFB-H

WELL DEPTH 375.00 feet WELL CASING VOLUME 41.6 gallons

DATE SAMPLED 06-15-2004 LABORATORY SAMPLE I.D.# D4F160246

TIME SAMPLED 0945 DATE RECEIVED BY LAB 06-16-2004

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3979.45	06-15-2004
Flow Rate	00059	gal/min	0.89	06-15-2004
Pump Period	72004	min.	50	06-15-2004
Volume Evacuated	73675	gal	50.0	06-15-2004
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: TEFLON Well Sampling Method: BENNETT PUMP

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.65	N/A	06-15-2004	field electrometer
Specific Conductivity	00095	umhos/cm	784	N/A	06-15-2004	field electrometer
T.O.X.	70354	ug/L	ND	10	07-19-2004	SW9020B
T.O.C.	00680	mg/L	ND	1.0	07-13-2004	SW9060

SIGNATURE: Fredrick E. Gebhardt

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MONITORING WELL
ANNUAL SAMPLING REPORT

SAMPLE COLLECTED BY Jeff Langman

LABORATORY NAME Severn Trent Services WELL NUMBER CAFB-S

WELL DEPTH 365.0 feet WELL CASING VOLUME 32.5 gallons

DATE SAMPLED 06-14-2004 LABORATORY SAMPLE I.D.# D4F150189

TIME SAMPLED 1425 DATE RECEIVED BY LAB 06-15-2004

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3957.10	06-14-2004
Flow Rate	00059	gal/min	0.90	06-14-2004
Pump Period	72004	min.	50	06-14-2004
Volume Evacuated	73675	gal	45.0	06-14-2004
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: TEFLON Well Sampling Method: BENNETT PUMP

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.59	N/A	06-14-2004	field electrometer
Specific Conductivity	00095	umhos/cm	840	N/A	06-14-2004	field electrometer
T.O.X.	70354	ug/L	16	20	07-19-2004	SW9020B
T.O.C.	00680	mg/L	ND	1.0	07-09-2004	SW9060

SIGNATURE: Fredrick E. Gebhardt

NAME (PRINTED): Fredrick E. Gebhardt

MONITORING WELL
ANNUAL SAMPLING REPORT

SAMPLE COLLECTED BY Jeff Langman

LABORATORY NAME Severn Trent Services WELL NUMBER CAFB-T

WELL DEPTH 365.00 feet WELL CASING VOLUME 33.2 gallons

DATE SAMPLED 06-15-2004 LABORATORY SAMPLE I.D.# D4F160246

TIME SAMPLED 1300 DATE RECEIVED BY LAB 06-16-2004

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3958.41	06-15-2004
Flow Rate	00059	gal/min	0.83	06-15-2004
Pump Period	72004	min.	60	06-15-2004
Volume Evacuated	73675	gal	50.0	06-15-2004
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: TEFLON Well Sampling Method: BENNETT PUMP

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.66	N/A	06-15-2004	field electrometer
Specific Conductivity	00095	umhos/cm	782	N/A	06-15-2004	field electrometer
T.O.X.	70354	ug/L	ND	10	07-19-2004	SW9020B
T.O.C.	00680	mg/L	ND	1.0	07-13-2004	SW9060

SIGNATURE: Fredrick E. Gebhardt

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MONITORING WELL
ANNUAL SAMPLING REPORT

SAMPLE COLLECTED BY Ralph Wilcox

LABORATORY NAME Severn Trent Services WELL NUMBER CAFB-U

WELL DEPTH 365.00 feet WELL CASING VOLUME 33.7 gallons

DATE SAMPLED 06-16-2004 LABORATORY SAMPLE I.D.# D4F170353

TIME SAMPLED 0940 DATE RECEIVED BY LAB 06-17-2004

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3960.77	06-16-2004
Flow Rate	00059	gal/min	1.18	06-16-2004
Pump Period	72004	min.	34	06-16-2004
Volume Evacuated	73675	gal	40.0	06-16-2004
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: TEFLON Well Sampling Method: BENNETT PUMP

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.58	N/A	06-16-2004	field electrometer
Specific Conductivity	00095	umhos/cm	767	N/A	06-16-2004	field electrometer
T.O.X.	70354	ug/L	ND	10	07-13-2004	SW9020B
T.O.C.	00680	mg/L	ND	1.0	07-13-2004	SW9060

SIGNATURE: Fredrick E. Gebhardt

NAME (PRINTED): Fredrick E. Gebhardt

MONITORING WELL
ANNUAL SAMPLING REPORT

SAMPLE COLLECTED BY Ralph Wilcox

LABORATORY NAME Severn Trent Services WELL NUMBER CAFB-V

WELL DEPTH 365.0 feet WELL CASING VOLUME 18.2 gallons

DATE SAMPLED 06-14-2004 LABORATORY SAMPLE I.D.# D4F150189

TIME SAMPLED 1420 DATE RECEIVED BY LAB 06-15-2004

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3994.18	06-14-2004
Flow Rate	00059	gal/min	1.18	06-14-2004
Pump Period	72004	min.	85	06-14-2004
Volume Evacuated	73675	gal	100.0	06-14-2004
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: TEFLON Well Sampling Method: BENNETT PUMP

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.46	N/A	06-14-2004	field electrometer
Specific Conductivity	00095	umhos/cm	1142	N/A	06-14-2004	field electrometer
T.O.X.	70354	ug/L	ND	20	07-19-2004	SW9020B
T.O.C.	00680	mg/L	0.70	1.0	07-09-2004	SW9060

SIGNATURE: Fredrick E. Gebhardt

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MONITORING WELL
ANNUAL SAMPLING REPORT

SAMPLE COLLECTED BY Ralph Wilcox

LABORATORY NAME Severn Trent Services WELL NUMBER CAFB-W

WELL DEPTH 365.0 feet WELL CASING VOLUME 25.7 gallons

DATE SAMPLED 06-15-2004 LABORATORY SAMPLE I.D.# D4F160246

TIME SAMPLED 1300 DATE RECEIVED BY LAB 06-16-2004

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3980.51	06-15-2004
Flow Rate	00059	gal/min	1.11	06-15-2004
Pump Period	72004	min.	90	06-15-2004
Volume Evacuated	73675	gal	100.0	06-15-2004
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: TEFLON Well Sampling Method: BENNETT PUMP

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.75	N/A	06-15-2004	field electrometer
Specific Conductivity	00095	umhos/cm	1108	N/A	06-15-2004	field electrometer
T.O.X.	70354	ug/L	ND	10	07-14-2004	SW9020B
T.O.C.	00680	mg/L	ND	1.0	07-13-2004	SW9060

SIGNATURE: Fredrick E. Gebhardt

NAME (PRINTED): Fredrick E. Gebhardt

MONITORING WELL
ANNUAL SAMPLING REPORT

SAMPLE COLLECTED BY Ralph Wilcox

LABORATORY NAME Severn Trent Services WELL NUMBER CAFB-X

WELL DEPTH 336.0 feet WELL CASING VOLUME 34.6 gallons

DATE SAMPLED 06-15-2004 LABORATORY SAMPLE I.D.# D4F160246

TIME SAMPLED 0915 DATE RECEIVED BY LAB 06-16-2004

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3994.05	06-15-2004
Flow Rate	00059	gal/min	1.25	06-15-2004
Pump Period	72004	min.	80	06-15-2004
Volume Evacuated	73675	gal	100.0	06-15-2004
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: TEFLON Well Sampling Method: BENNETT PUMP

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.73	N/A	06-15-2004	field electrometer
Specific Conductivity	00095	umhos/cm	510	N/A	06-15-2004	field electrometer
T.O.X.	70354	ug/L	ND	10	07-19-2004	SW9020B
T.O.C.	00680	mg/L	ND	1.0	07-13-2004	SW9060

SIGNATURE: Fredrick E. Gebhardt

NAME (PRINTED): Fredrick E. Gebhardt

APPENDIX I

Severn Trent Laboratory Results of Analysis of Ground-Water Samples Collected June 14-16, 2004

SEVERN TRENT STL

STL Denver
4955 Yarrow Street
Arvada, CO 80002

Tel: 303 736 0100 Fax: 303 431 7171
www.stl-inc.com

ANALYTICAL REPORT

Cannon AFB
SDG: CANNON-4
Lot #s: D4F150189, D4F160246, and D4F170353

Richard Daddow

U.S. Geological Survey

STL DENVER

for

Wayne Scott
Project Manager

July 29, 2004

Table Of Contents

Standard Deliverables with Supporting Documentation

Report Contents	Number of Pages
Standard Deliverables *(The **Cover Letter** and the **Report Cover** page are considered integral parts of this Standard Deliverable package. This report is incomplete unless all pages indicated in this Table of Contents are included.)*	505
• **Table of Contents**	
• **Case Narrative**	
• **Executive Summary – Detection Highlights**	
• **Methods Summary**	
• **Method/Analyst Summary**	
• **Lot Sample Summary**	
• **Analytical Results**	
• **QC Data Association Summary**	
• **QC Sample Results**	
• **Chain-of-Custody**	

Supporting Documentation *(Note: A one-page "Description of Supporting Documentation" is provided at the beginning of this section.).*	**Check below when supporting documentation is present.**
• **Volatile GC/MS**	✓
• **Semivolatile GC/MS**	✓
• **Volatile GC**	
• **Semivolatile GC**	✓
• **LC/MS or HPLC**	✓
• **Metals**	✓
• **General Chemistry**	✓
• **Subcontracted Data**	✓

Case Narrative
CANNON-4

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits.

The test results presented in this report meet all requirements of NELAC, and any exceptions are noted. This report shall not be reproduced, except in full, without written permission from the laboratory.

Sample Receiving

Three samples were received under chain of custody on June 15, 2004 and logged under lot D4F150189. Seven samples, one trip blank, and one equipment blank were received under chain of custody on June 16, 2004 and logged under lot D4F160246. Seven samples and one equipment blank were received under chain of custody on April 17, 2004 and logged under lot D4F170353. These three lots are reported here under SDG CANNON-4.

The samples were received at the lab at temperatures of 3.7°C and 5.3°C on June 15th, 5.2°C, 2.3°C, 4.2°C, 3.8°C, 3.5°C, 4.6°C, 3.0°C, and 3.3°C on June 16th, 4.7°C, 3.8°C, 3.3°C, 3.7°C, 2.9°C, 2.2°C, 4.2°C, 3.2°C, and 4.8°C on June 17th.

Sample CAFB-S for lot D4F150189 was crossed out on the COC. The volume for volatile analysis was included; therefore, the sample was logged.

Sample CAFB-B-EB was received but not listed on the chain of custody for lot D4F170353. The sample was logged for volatile analysis per bottles received.

GC/MS Volatiles, SW846 8260B

The method blanks associated with batches 4181517 and 4181544 contained methylene chloride at concentrations below the reporting limit but above the method detection limit. Associated positive sample data are flagged "B".

The MS/MSD associated with batch 4177179 was performed on a sample from another client and/or lot and was in control.

The MS/MSD associated with batch 4181517 was performed on a sample from another client and/or lot and was in control.

The MS/MSD performed on sample D4F170353-001 was in control.

GC/MS Semivolatiles, SW846 8270C

The method blank associated with batch 4168427 contained benzyl alcohol at a concentration below the reporting limit but above the method detection limit. Associated positive sample data are flagged "B".

An MS/MSD associated with batch 4168427 was not requested and the laboratory could not designate one due to insufficient sample volume.

The MS/MSD performed on sample D4F170353-001 was in control.

The second source verification of the Initial Calibration (ICV) associated with batch 4168427 demonstrated a difference greater than 25% for methyl methanesulfonate.

The Continuing Calibration Verification (CCV) standard for samples D4F170353-001 through 007 demonstrated a drift greater than +15% for aniline. The average percent drift of all compounds in the CCV standard was less than ±15%; therefore the CCV met all criteria for the method.

The ICV second source verification of the initial calibration associated with samples D4F150189-001 and 003 and D4F160246-001 through 008 in batch 4168427 met all method and SOP requirements. However, the percent recovery was outside of STL Denver internal criteria for methyl methanesulfonate at 160%. This compound was not detected in the associated samples.

GC Semivolatiles – Pesticides, SW846 8081A

MS/MSDs associated with batches 4167449 and 4168385 were not requested and the laboratory was unable to designate one due to limited sample volume.

The MS/MSD performed on sample D4F170353-001 was in control.

The Continuing Calibration Verification (CCV) standards for samples D4F150189-001 and 003 demonstrated drifts greater than +15% on the primary column for endrin aldehyde, endrin ketone, and the surrogate dechachlorobiphenyl. The CCV standards also demonstrated drifts greater than -15% on the primary column for kepone. The average percent drifts of all compounds in the CCV standards were less than ±15%; therefore the CCV met all criteria for the method.

The CCV standards for samples D4F160246-001 through 008 demonstrated drifts greater than +15% on the primary column for heptachlor, 4,4'-DDT, and methoxychlor. The CCV standards also demonstrated drifts greater than -15% on the primary column for kepone. The average percent drifts of all compounds in the CCV standards were less than ±15%; therefore the CCV met all criteria for the method.

The CCV standards for samples D4F170353-001 through 007 demonstrated drifts greater than +15% on the primary column for endrin aldehyde. The CCV standards also demonstrated drifts greater than -15% on the primary column for endrin and kepone. The average percent drifts of all compounds in the CCV standards were less than ±15%; therefore the CCV met all criteria for the method.

GC Semivolatiles – PCBs, SW846 8082

MS/MSDs associated with batches 4167450 and 4168413 were not requested and the laboratory was unable to designate one due to limited sample volume.

The MS/MSD performed on sample D4F170353-001 was in control.

A Continuing Calibration Verification (CCV) standard associated with sample D4F170353-001 demonstrated a percent difference greater than -15% for the surrogate decachlorobiphenyl. The average percent difference of all compounds in the CCV standards was less than ±15%, meeting all criteria for the method. The decachlorobiphenyl surrogate recovery was in control in the associated sample.

GC Semivolatiles – Herbicides, SW846 8151A

MS/MSDs associated with batches 4167559 and 4169456 were not requested and the laboratory was unable to designate one due to limited sample volume.

The MS/MSD performed on sample D4F170353-001 was in control.

The Continuing Calibration Verification (CCV) standards associated with samples D4F150189-001 and 003 demonstrated percent differences greater than +15% for dinoseb. The average percent difference of all compounds in the CCV standards was less than ±15%, meeting all criteria for the method.

The CCV standards associated with samples D4F160246-001 through 008 demonstrated percent differences greater than +15% for 2,4,5-T, dinoseb and silvex. This may indicate a high bias in the sample data. These compounds were not detected in the associated samples and no further corrective action was taken.

The CCV standards associated with samples D4F170353-001 through 007 demonstrated percent differences greater than +15% for dinoseb and 2,4,5-T. The average percent difference of all compounds in the CCV standards was less than ±15%, meeting all criteria for the method.

HRGC/HRMS – Dioxins/Furans, SW846 8280A

The MS/MSD performed on sample D4F170353-001 was in control.

A MS/MSD associated with batch 4174488 was not requested and the laboratory was unable to designate one due to insufficient sample volume.

HPLC – PAHs, SW846 8310

MS/MSDs associated with batches 4167463 and 4168422 were not requested and the laboratory was unable to designate one due to limited sample volume.

The MS/MSD performed on sample D4F170353-001 was below control limits for benzo(a)pyrene.

A second MS/MSD associated with batch 4174278 was performed on a sample from another client and/or lot and demonstrated some analyte recoveries below control limits.

HPLC/MS – Explosives, SW86 8321A

Samples D4F150189-001 and 003, D4F160246-001 through 004, 006 through 008, and D4F170353-002 through 005, and 007 were analyzed at dilutions due to high analyte levels. Reporting limits have been raised accordingly.

The method blank associated with batch 4182292 contained perchlorate at a concentration below the reporting limit but above the method detection limit. Associated positive sample data are flagged "B".

The MS/MSD associated with batch 4176194 was performed on a sample from another client and/or lot and was in control.

The MS/MSD performed on sample D4F170353-001 was in control.

Total Metals, SW846 6010B, 6020, 7470A

Chromium was detected in the method 6020 blank associated with batch 4177601 at a concentration below the reporting limit, but above the method detection limit. Associated positive sample results are flagged "J".

Aluminum, barium, and beryllium were detected in the method 6010B blank associated with batch 4177616 at concentrations below the reporting limits, but above the method detection limits. Associated positive sample results are flagged "J".

Chromium was detected in the method 6020 blank associated with batch 4182583 at a concentration below the reporting limit, but above the method detection limit. Associated positive sample results are flagged "J".

Mercury was detected in the method 7470A blank associated with batch 4182444 at a concentration below the reporting limit, but above the method detection limit. Associated positive sample results are flagged "J".

The method 6010B, 6020, and 7470A MS/MSDs performed on sample D4F170353-001 were in control.

The method 6020 and 7470A MS/MSDs performed on sample D4F150189-001 were in control.

General Chemistry, Various Methods

Due to instrument failure and laboratory oversight, samples D4F150189-001, 003 and D4F160246-001 through 008 were analyzed outside of EPA recommended holding time of twenty-eight days.

Samples D4F150189-001, 003, D4F160246-001, 004, 006 through 008, and D4F170353-002 through 005 and 007 were analyzed at dilutions for sulfate due to high analyte concentrations. The reporting limits are elevated accordingly and the associated sample data are flagged "Q".

Samples D4F150189-001 and 003 and were analyzed at dilutions for total organic halogens due to high inorganic chloride concentrations. The reporting limits are elevated accordingly and the associated sample data are flagged "IC".

Nitrite was detected in the method 300.0A blank associated with batches 4167619, 4168543, and 4169557 at concentrations below the reporting limits, but above the method detection limits. Associated positive sample results are flagged "J".

Sulfate was detected in the method 300.A blank associated with batch 4181299 at a concentration below the reporting limit but above the method detection limit. Associated positive sample results are flagged "J".

The method 9012A MS/MSD performed on sample D4F170353-001 was in control for total cyanide.

The method 354.1 MS/MSDs performed on samples D4F160246-001 and D4F170353-001 were in control for nitrite.

The method 300.0A MS/MSD performed on sample D4F170353-001 demonstrated recoveries above control limits for sulfate. The recoveries are estimated since the results exceed the calibration range.

The method 9020B MS/MSDs performed on samples D4F150189-001 and D4F170353-001 were in control for total organic halogens.

The method 9060 MS/MSD performed on sample D4F170353-001 was in control for total organic carbon.

The method 9030B/9034 MS/MSD performed on sample D4F170353-001 was in control for total sulfide.

A method 9030B/9034 MS/MSD associated with batch 4173462 was not requested and the laboratory was unable to designate one due to limited sample volume.

All other MS/MSDs were performed on samples from another client and/or lot and some were not in control.

All duplicates were performed on samples from another client and/or lot and were in control.

Quality Control Definitions of Terms

Term	Definition
Batch	A set of up to 20 field samples plus associated laboratory QC samples that are similar in composition (matrix) and that are processed within the same time period with the same reagent and standard lots.
Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD)	A volume of regent water for aqueous samples or a contaminant-free solid matrix (Ottawa sand) for soil and sediment samples which is spiked with known amounts of representative target analytes and required surrogates. A LCS is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. An LCSD is a second Laboratory Control Sample.
Matrix Spike and Matrix Spike Duplicate (MS/MSD)	A field sample fortified with known quantities of target analytes that are also added to the LCS. Matrix spike duplicate is a second matrix spike sample. MSs/MSDs are carried throughout he entire analytical process and are used to determine sample matrix effect on accuracy of the measurement system. The accuracy and precision estimated using MS/MSD is only representative of the precision of the sample that was spiked.
Method Blank	A sample composed of all the reagents (in the same quantities) in reagent water carried through the entire analytical process. The method blank is used to monitor the level of contamination introduced during sample preparation steps.
Surrogate	Organic constituents not expected to be detected in environmental media and are added to every sample and QC at a known concentration. Surrogates are used to determine the efficiency of the sample preparation and the analytical process.
Sample Duplicate	A second aliquot of an environmental sample, taken form the same sample container when possible, that is processed independently with the first sample aliquot. The results are used to assess the effect of the sample matrix on the precision of the analytical process. The precision estimated using this sample is not necessarily representative to the precision for other samples in the batch.
Method Detection Limit "MDL"	The method detection limit is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from replicate analyses of low level standards in a typical representative matrix.
Reporting Limit "RL"	The STL reporting limit is normally the lowest level at which measurements become quantitatively meaningful, ie., the quantitation limit, which is approximately three times the MDL. Some projects require RLs that are less than the quantitation limit to achieve particular maximum contaminant levels (MCLs) or relevant and appropriate requirements (ARARs), but RLs cannot be less than the statistically determined MDL.

Quality Control Definitions of Qualifiers

Qualifier	Definition
*	Surrogate or Relative Percent Difference (RPD) is outside control limits.
a	Spiked analyte recovery is outside control limits.
B	Organics: Method blank contamination. The associated method blank contains the target analyte at a reportable level. Inorganics: Estimated result. Result is less than the RL
COL	More than 40% difference between the primary and confirmation detector results. The lower of the two results is reported.
DIL	The concentration is estimated or not reported due to dilution.
E	Estimated result. Result concentrations exceeds the calibration range.
G	Inorganics: Elevated reporting limit. The reporting limit is elevated due to matrix interference.
J	Organics: Estimated result. Result is less than RL Inorganics: Method blank contamination. The associated method blank contains the target analyte at a reportable level.
L	Serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present
N	Spiked analyte recovery is outside stated control limits.
NC	The recovery and/or RPD were not calculated.
ND	The analyte was not detected at the MDL concentration and with a measurable degree of confidence can be said not to be present at or above the RL concentration.
p	Relative percent difference (RPD) is outside stated control limits.
Q	Elevated reporting limit. The reporting limit is elevated due to high analyte levels.
V	General Chemistry: Elevated reporting limit due to limited sample volume.
Wa	Post digestion spike recovery fell between 40-85% due to matrix interference.
Wb	Post digestion spike recovery fell between 115-150% due to matrix interference.
I	Percent recovery is estimated since the results exceeded the calibration range.
T1	A tentatively identified compound that did not generate a spectral match of 80% or greater. Typically called "unknown"
T2	A tentatively identified compound with a spectral match of 80% or better
T3	A tentatively identified compound that was calibrated for by the lab, but not on the client target analyte list.
IC	Diluted due to high inorganic chloride.

EXECUTIVE SUMMARY - Detection Highlights

CANNON-4 : D4F150189

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
CAFB-V 06/14/04 14:20 001				
Perchlorate	5.6	0.50	ug/L	SW846 8321A
Arsenic	4.5 B	5.0	ug/L	SW846 6020
Chromium	1.3 B,J	2.0	ug/L	SW846 6020
Lead	0.11 B	1.0	ug/L	SW846 6020
Selenium	10	5.0	ug/L	SW846 6020
Molybdenum	3.2 B	20	ug/L	SW846 6010B
Zinc	12 B	20	ug/L	SW846 6010B
Aluminum	80 B,J	100	ug/L	SW846 6010B
Barium	31 J	10	ug/L	SW846 6010B
Beryllium	0.72 B,J	5.0	ug/L	SW846 6010B
Calcium	72000	200	ug/L	SW846 6010B
Iron	55 B	100	ug/L	SW846 6010B
Potassium	8700	3000	ug/L	SW846 6010B
Magnesium	63000	200	ug/L	SW846 6010B
Manganese	24	10	ug/L	SW846 6010B
Sodium	80000	5000	ug/L	SW846 6010B
Vanadium	22	10	ug/L	SW846 6010B
Benzyl alcohol	1.4 J,B	10	ug/L	SW846 8270C
Toluene	0.65 J	1.0	ug/L	SW846 8260B
Total Dissolved Solids	760	10	mg/L	MCAWW 160.1
Nitrate	3.9	0.10	mg/L	MCAWW 353.2
Nitrite	0.0049	0.010	mg/L	MCAWW 354.1
	Qualifiers: B,J			
Sulfate	220 Q	25	mg/L	MCAWW 300.0A
Total Organic Carbon	0.70 B	1.0	mg/L	SW846 9060
Cyanide, Total	0.0033 B	0.010	mg/L	SW846 9012A
CAFB-V1 06/14/04 15:00 002				
Methylene chloride	0.83 J	5.0	ug/L	SW846 8260B
Toluene	0.47 J	1.0	ug/L	SW846 8260B
CAFB-S 06/14/04 14:25 003				
Perchlorate	2.7	0.20	ug/L	SW846 8321A
Silver	0.072 B	5.0	ug/L	SW846 6020
Arsenic	4.8 B	5.0	ug/L	SW846 6020
Cadmium	0.032 B	1.0	ug/L	SW846 6020
Chromium	2.1 J	2.0	ug/L	SW846 6020
Lead	0.30 B	1.0	ug/L	SW846 6020
Selenium	6.3	5.0	ug/L	SW846 6020
Molybdenum	4.2 B	20	ug/L	SW846 6010B

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EXECUTIVE SUMMARY - Detection Highlights

CANNON-4 : D4F150189

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
CAFB-S 06/14/04 14:25 003				
Aluminum	89 B,J	100	ug/L	SW846 6010B
Barium	30 J	10	ug/L	SW846 6010B
Beryllium	0.58 B,J	5.0	ug/L	SW846 6010B
Calcium	50000	200	ug/L	SW846 6010B
Copper	28	20	ug/L	SW846 6010B
Iron	49 B	100	ug/L	SW846 6010B
Potassium	7800	3000	ug/L	SW846 6010B
Magnesium	47000	200	ug/L	SW846 6010B
Manganese	1.7 B	10	ug/L	SW846 6010B
Sodium	54000	5000	ug/L	SW846 6010B
Vanadium	30	10	ug/L	SW846 6010B
Zinc	35	20	ug/L	SW846 6010B
Toluene	0.29 J	1.0	ug/L	SW846 8260B
Total Dissolved Solids	540	10	mg/L	MCAWW 160.1
Nitrate	0.94	0.10	mg/L	MCAWW 353.2
Nitrite	0.0042	0.010	mg/L	MCAWW 354.1
	Qualifiers: B,J			
Sulfate	150 Q	25	mg/L	MCAWW 300.0A
Total Organic Halogens	16 B,IC	20	ug/L	SW846 9020B

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EXECUTIVE SUMMARY - Detection Highlights

CANNON-4 : D4F160246

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
CAFB-W 06/15/04 13:00 001				
Perchlorate	0.63	0.050	ug/L	SW846 8321A
Arsenic	2.0 B	5.0	ug/L	SW846 6020
Cadmium	0.029 B	1.0	ug/L	SW846 6020
Chromium	1.1 B,J	2.0	ug/L	SW846 6020
Lead	0.78 B	1.0	ug/L	SW846 6020
Selenium	2.0 B	5.0	ug/L	SW846 6020
Mercury	0.19 B,J	0.20	ug/L	SW846 7470A
Molybdenum	12 B	20	ug/L	SW846 6010B
Aluminum	110 J	100	ug/L	SW846 6010B
Barium	22 J	10	ug/L	SW846 6010B
Beryllium	0.69 B,J	5.0	ug/L	SW846 6010B
Calcium	58000	200	ug/L	SW846 6010B
Copper	2.8 B	20	ug/L	SW846 6010B
Iron	110	100	ug/L	SW846 6010B
Potassium	11000	3000	ug/L	SW846 6010B
Magnesium	48000	200	ug/L	SW846 6010B
Manganese	2.8 B	10	ug/L	SW846 6010B
Sodium	98000	5000	ug/L	SW846 6010B
Vanadium	7.3 B	10	ug/L	SW846 6010B
Zinc	10 B	20	ug/L	SW846 6010B
Methylene chloride	0.37 J,B	5.0	ug/L	SW846 8260B
Toluene	0.17 J	1.0	ug/L	SW846 8260B
Total Dissolved Solids	700	10	mg/L	MCAWW 160.1
Nitrate	9.8	0.10	mg/L	MCAWW 353.2
Nitrite	0.0061	0.010	mg/L	MCAWW 354.1
	Qualifiers: B,J			
Sulfate	220 J,Q	25	mg/L	MCAWW 300.0A
CAFB-XX 06/15/04 09:30 002				
Perchlorate	1.1	0.10	ug/L	SW846 8321A
Arsenic	6.3	5.0	ug/L	SW846 6020
Chromium	1.7 B,J	2.0	ug/L	SW846 6020
Lead	0.14 B	1.0	ug/L	SW846 6020
Antimony	0.21 B	2.0	ug/L	SW846 6020
Selenium	2.5 B	5.0	ug/L	SW846 6020
Mercury	0.11 B,J	0.20	ug/L	SW846 7470A
Molybdenum	7.8 B	20	ug/L	SW846 6010B
Aluminum	68 B,J	100	ug/L	SW846 6010B
Barium	61 J	10	ug/L	SW846 6010B
Beryllium	0.63 B,J	5.0	ug/L	SW846 6010B
Calcium	28000	200	ug/L	SW846 6010B

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EXECUTIVE SUMMARY - Detection Highlights

CANNON-4 : D4F160246

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
CAFB-XX 06/15/04 09:30 002				
Iron	41 B	100	ug/L	SW846 6010B
Potassium	6500	3000	ug/L	SW846 6010B
Magnesium	24000	200	ug/L	SW846 6010B
Sodium	46000	5000	ug/L	SW846 6010B
Vanadium	47	10	ug/L	SW846 6010B
Benzyl alcohol	1.6 J,B	10	ug/L	SW846 8270C
Methylene chloride	0.39 J,B	5.0	ug/L	SW846 8260B
Toluene	0.37 J	1.0	ug/L	SW846 8260B
Total Dissolved Solids	300	10	mg/L	MCAWW 160.1
Nitrate	1.6	0.10	mg/L	MCAWW 353.2
Nitrite	0.0030	0.010	mg/L	MCAWW 354.1
	Qualifiers: B,J			
Sulfate	48 J	5.0	mg/L	MCAWW 300.0A
Cyanide, Total	0.0046 B	0.010	mg/L	SW846 9012A
CAFB-X 06/15/04 09:15 003				
Perchlorate	1.1	0.10	ug/L	SW846 8321A
Arsenic	6.4	5.0	ug/L	SW846 6020
Chromium	1.7 B,J	2.0	ug/L	SW846 6020
Lead	0.18 B	1.0	ug/L	SW846 6020
Selenium	2.4 B	5.0	ug/L	SW846 6020
Mercury	0.089 B,J	0.20	ug/L	SW846 7470A
Molybdenum	8.7 B	20	ug/L	SW846 6010B
Aluminum	58 B,J	100	ug/L	SW846 6010B
Barium	61 J	10	ug/L	SW846 6010B
Beryllium	0.64 B,J	5.0	ug/L	SW846 6010B
Calcium	28000	200	ug/L	SW846 6010B
Iron	22 B	100	ug/L	SW846 6010B
Potassium	6500	3000	ug/L	SW846 6010B
Magnesium	24000	200	ug/L	SW846 6010B
Sodium	47000	5000	ug/L	SW846 6010B
Vanadium	48	10	ug/L	SW846 6010B
Methylene chloride	0.34 J,B	5.0	ug/L	SW846 8260B
Toluene	0.35 J	1.0	ug/L	SW846 8260B
Total Dissolved Solids	310	10	mg/L	MCAWW 160.1
Nitrate	1.5	0.10	mg/L	MCAWW 353.2
Nitrite	0.0030	0.010	mg/L	MCAWW 354.1
	Qualifiers: B,J			
Sulfate	48 J	5.0	mg/L	MCAWW 300.0A
Cyanide, Total	0.0030 B	0.010	mg/L	SW846 9012A

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EXECUTIVE SUMMARY - Detection Highlights

CANNON-4 : D4F160246

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
CAFB-G 06/15/04 11:20 004				
Perchlorate	1.7	0.20	ug/L	SW846 8321A
Arsenic	2.7 B	5.0	ug/L	SW846 6020
Cadmium	0.035 B	1.0	ug/L	SW846 6020
Chromium	3.4 J	2.0	ug/L	SW846 6020
Lead	1.4	1.0	ug/L	SW846 6020
Selenium	4.5 B	5.0	ug/L	SW846 6020
Mercury	0.11 B,J	0.20	ug/L	SW846 7470A
Molybdenum	2.3 B	20	ug/L	SW846 6010B
Aluminum	100 J	100	ug/L	SW846 6010B
Barium	32 J	10	ug/L	SW846 6010B
Beryllium	0.61 B,J	5.0	ug/L	SW846 6010B
Calcium	52000	200	ug/L	SW846 6010B
Copper	8.1 B	20	ug/L	SW846 6010B
Iron	110	100	ug/L	SW846 6010B
Potassium	8500	3000	ug/L	SW846 6010B
Magnesium	50000	200	ug/L	SW846 6010B
Sodium	53000	5000	ug/L	SW846 6010B
Vanadium	17	10	ug/L	SW846 6010B
Zinc	28	20	ug/L	SW846 6010B
Methylene chloride	0.35 J,B	5.0	ug/L	SW846 8260B
Total Dissolved Solids	530	10	mg/L	MCAWW 160.1
Nitrate	1.6	0.10	mg/L	MCAWW 353.2
Nitrite	0.0032	0.010	mg/L	MCAWW 354.1
	Qualifiers: B,J			
Sulfate	140 J,Q	25	mg/L	MCAWW 300.0A
Cyanide, Total	0.0035 B	0.010	mg/L	SW846 9012A
CAFB-X-EB 06/15/04 10:00 005				
Chromium	0.54 B,J	2.0	ug/L	SW846 6020
Mercury	0.085 B,J	0.20	ug/L	SW846 7470A
Aluminum	53 B,J	100	ug/L	SW846 6010B
Beryllium	0.54 B,J	5.0	ug/L	SW846 6010B
Calcium	100 B	200	ug/L	SW846 6010B
Magnesium	43 B	200	ug/L	SW846 6010B
Acetone	5.7 J	10	ug/L	SW846 8260B
Methylene chloride	0.42 J,B	5.0	ug/L	SW846 8260B
Toluene	1.1	1.0	ug/L	SW846 8260B
Nitrite	0.0029	0.010	mg/L	MCAWW 354.1
	Qualifiers: B,J			
Cyanide, Total	0.0082 B	0.010	mg/L	SW846 9012A

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EXECUTIVE SUMMARY - Detection Highlights

CANNON-4 : D4F160246

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
CAFB-H 06/15/04 09:45 006				
Perchlorate	2.6	0.20	ug/L	SW846 8321A
Arsenic	3.3 B	5.0	ug/L	SW846 6020
Chromium	2.7 J	2.0	ug/L	SW846 6020
Lead	0.88 B	1.0	ug/L	SW846 6020
Selenium	6.7	5.0	ug/L	SW846 6020
Mercury	0.089 B,J	0.20	ug/L	SW846 7470A
Molybdenum	2.3 B	20	ug/L	SW846 6010B
Aluminum	68 B,J	100	ug/L	SW846 6010B
Barium	31 J	10	ug/L	SW846 6010B
Beryllium	0.68 B,J	5.0	ug/L	SW846 6010B
Calcium	43000	200	ug/L	SW846 6010B
Copper	2.5 B	20	ug/L	SW846 6010B
Iron	150	100	ug/L	SW846 6010B
Potassium	7600	3000	ug/L	SW846 6010B
Magnesium	41000	200	ug/L	SW846 6010B
Manganese	4.2 B	10	ug/L	SW846 6010B
Sodium	57000	5000	ug/L	SW846 6010B
Vanadium	20	10	ug/L	SW846 6010B
Zinc	32	20	ug/L	SW846 6010B
Methylene chloride	0.43 J,B	5.0	ug/L	SW846 8260B
Total Dissolved Solids	490	10	mg/L	MCAWW 160.1
Nitrate	1.5	0.10	mg/L	MCAWW 353.2
Nitrite	0.0038	0.010	mg/L	MCAWW 354.1
	Qualifiers: B,J			
Sulfate	140 J,Q	25	mg/L	MCAWW 300.0A
CAFB-T 06/15/04 13:00 007				
Perchlorate	2.3	0.20	ug/L	SW846 8321A
Arsenic	4.7 B	5.0	ug/L	SW846 6020
Chromium	1.6 B,J	2.0	ug/L	SW846 6020
Lead	0.11 B	1.0	ug/L	SW846 6020
Selenium	6.2	5.0	ug/L	SW846 6020
Mercury	0.086 B,J	0.20	ug/L	SW846 7470A
Molybdenum	4.6 B	20	ug/L	SW846 6010B
Aluminum	62 B,J	100	ug/L	SW846 6010B
Barium	29 J	10	ug/L	SW846 6010B
Beryllium	0.61 B,J	5.0	ug/L	SW846 6010B
Calcium	44000	200	ug/L	SW846 6010B
Copper	1.0 B	20	ug/L	SW846 6010B
Iron	53 B	100	ug/L	SW846 6010B
Potassium	7000	3000	ug/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

CANNON-4 : D4F160246

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
CAFB-T 06/15/04 13:00 007				
Magnesium	41000	200	ug/L	SW846 6010B
Manganese	1.6 B	10	ug/L	SW846 6010B
Sodium	54000	5000	ug/L	SW846 6010B
Vanadium	30	10	ug/L	SW846 6010B
Methylene chloride	0.36 J,B	5.0	ug/L	SW846 8260B
Total Dissolved Solids	480	10	mg/L	MCAWW 160.1
Nitrate	3.1	0.10	mg/L	MCAWW 353.2
Nitrite	0.0037	0.010	mg/L	MCAWW 354.1
	Qualifiers: B,J			
Sulfate	140 J,Q	25	mg/L	MCAWW 300.0A
CAFB-C 06/15/04 14:30 008				
Perchlorate	0.41	0.050	ug/L	SW846 8321A
Arsenic	5.3	5.0	ug/L	SW846 6020
Chromium	1.3 B,J	2.0	ug/L	SW846 6020
Lead	0.11 B	1.0	ug/L	SW846 6020
Selenium	0.85 B	5.0	ug/L	SW846 6020
Mercury	0.079 B,J	0.20	ug/L	SW846 7470A
Molybdenum	3.8 B	20	ug/L	SW846 6010B
Aluminum	60 B,J	100	ug/L	SW846 6010B
Barium	45 J	10	ug/L	SW846 6010B
Beryllium	0.68 B,J	5.0	ug/L	SW846 6010B
Calcium	31000	200	ug/L	SW846 6010B
Iron	21 B	100	ug/L	SW846 6010B
Potassium	6300	3000	ug/L	SW846 6010B
Magnesium	30000	200	ug/L	SW846 6010B
Sodium	50000	5000	ug/L	SW846 6010B
Vanadium	40	10	ug/L	SW846 6010B
Methylene chloride	0.34 J,B	5.0	ug/L	SW846 8260B
Trichloroethene	0.78 J	1.0	ug/L	SW846 8260B
Total Dissolved Solids	350	10	mg/L	MCAWW 160.1
Nitrate	2.2	0.10	mg/L	MCAWW 353.2
Nitrite	0.0023	0.010	mg/L	MCAWW 354.1
	Qualifiers: B,J			
Sulfate	63 J,Q	25	mg/L	MCAWW 300.0A

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EXECUTIVE SUMMARY - Detection Highlights

CANNON-4 : D4F160246

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
CAFB-X-TB 06/15/04 09:00 009				
Methylene chloride	0.50 J,B	5.0	ug/L	SW846 8260B

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EXECUTIVE SUMMARY - Detection Highlights

CANNON-4 : D4F170353

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
CAFB-L 06/16/04 09:05 001				
Perchlorate	0.21 B	0.010	ug/L	SW846 8321A
Arsenic	4.6 B	5.0	ug/L	SW846 6020
Chromium	0.78 B,J	2.0	ug/L	SW846 6020
Lead	0.14 B	1.0	ug/L	SW846 6020
Selenium	0.52 B	5.0	ug/L	SW846 6020
Mercury	0.090 B,J	0.20	ug/L	SW846 7470A
Molybdenum	2.5 B	20	ug/L	SW846 6010B
Aluminum	57 B,J	100	ug/L	SW846 6010B
Barium	88 J	10	ug/L	SW846 6010B
Beryllium	0.60 B,J	5.0	ug/L	SW846 6010B
Calcium	33000	200	ug/L	SW846 6010B
Copper	1.0 B	20	ug/L	SW846 6010B
Iron	43 B	100	ug/L	SW846 6010B
Potassium	6500	3000	ug/L	SW846 6010B
Magnesium	33000	200	ug/L	SW846 6010B
Manganese	1.4 B	10	ug/L	SW846 6010B
Sodium	50000	5000	ug/L	SW846 6010B
Vanadium	37	10	ug/L	SW846 6010B
Methylene chloride	0.30 J,B	5.0	ug/L	SW846 8260B
Trichloroethene	0.40 J	1.0	ug/L	SW846 8260B
Total Dissolved Solids	350	10	mg/L	MCAWW 160.1
Nitrate	1.4	0.10	mg/L	MCAWW 353.2
Nitrite	0.0076	0.010	mg/L	MCAWW 354.1
	Qualifiers: B,J			
Sulfate	30	5.0	mg/L	MCAWW 300.0A
Total Organic Halogens	17	10	ug/L	SW846 9020B
CAFB-U 06/16/04 09:40 002				
Perchlorate	2.3 B	0.10	ug/L	SW846 8321A
Arsenic	4.7 B	5.0	ug/L	SW846 6020
Cadmium	0.12 B	1.0	ug/L	SW846 6020
Chromium	1.4 B,J	2.0	ug/L	SW846 6020
Lead	0.24 B	1.0	ug/L	SW846 6020
Selenium	5.9	5.0	ug/L	SW846 6020
Mercury	0.090 B,J	0.20	ug/L	SW846 7470A
Molybdenum	4.7 B	20	ug/L	SW846 6010B
Aluminum	71 B,J	100	ug/L	SW846 6010B
Barium	28 J	10	ug/L	SW846 6010B
Beryllium	0.69 B,J	5.0	ug/L	SW846 6010B
Calcium	47000	200	ug/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

CANNON-4 : D4F170353

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
CAFB-U 06/16/04 09:40 002				
Iron	27 B	100	ug/L	SW846 6010B
Potassium	7100	3000	ug/L	SW846 6010B
Magnesium	41000	200	ug/L	SW846 6010B
Manganese	1.0 B	10	ug/L	SW846 6010B
Sodium	55000	5000	ug/L	SW846 6010B
Vanadium	30	10	ug/L	SW846 6010B
bis(2-Ethylhexyl) phthalate	9.7 J	10	ug/L	SW846 8270C
Total Dissolved Solids	460	10	mg/L	MCAWW 160.1
Nitrate	0.75	0.10	mg/L	MCAWW 353.2
Nitrite	0.0031	0.010	mg/L	MCAWW 354.1
	Qualifiers: B,J			
Sulfate	130 Q	25	mg/L	MCAWW 300.0A
CAFB-E 06/16/04 13:00 003				
Perchlorate	1.8 B	0.10	ug/L	SW846 8321A
Arsenic	2.6 B	5.0	ug/L	SW846 6020
Chromium	3.7 J	2.0	ug/L	SW846 6020
Lead	0.60 B	1.0	ug/L	SW846 6020
Selenium	5.1	5.0	ug/L	SW846 6020
Mercury	0.085 B,J	0.20	ug/L	SW846 7470A
Aluminum	51 B,J	100	ug/L	SW846 6010B
Barium	47 J	10	ug/L	SW846 6010B
Beryllium	0.65 B,J	5.0	ug/L	SW846 6010B
Calcium	56000	200	ug/L	SW846 6010B
Copper	1.2 B	20	ug/L	SW846 6010B
Iron	31 B	100	ug/L	SW846 6010B
Potassium	8700	3000	ug/L	SW846 6010B
Magnesium	52000	200	ug/L	SW846 6010B
Manganese	0.64 B	10	ug/L	SW846 6010B
Sodium	66000	5000	ug/L	SW846 6010B
Vanadium	17	10	ug/L	SW846 6010B
Zinc	19 B	20	ug/L	SW846 6010B
Methylene chloride	0.26 J,B	5.0	ug/L	SW846 8260B
Tetrachloroethene	0.48 J	1.0	ug/L	SW846 8260B
Total Dissolved Solids	610	10	mg/L	MCAWW 160.1
Nitrate	1.7	0.10	mg/L	MCAWW 353.2
Nitrite	0.0034	0.010	mg/L	MCAWW 354.1
	Qualifiers: B,J			
Sulfate	97 Q	25	mg/L	MCAWW 300.0A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

CANNON-4 : D4F170353

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
CAFB-E 06/16/04 13:00 003				
Total Organic Halogens	8.3 B	10	ug/L	SW846 9020B
CAFB-B 06/16/04 08:30 004				
Perchlorate	2.3 B	0.10	ug/L	SW846 8321A
Arsenic	4.7 B	5.0	ug/L	SW846 6020
Chromium	1.5 B,J	2.0	ug/L	SW846 6020
Lead	0.24 B	1.0	ug/L	SW846 6020
Selenium	5.9	5.0	ug/L	SW846 6020
Mercury	0.078 B,J	0.20	ug/L	SW846 7470A
Molybdenum	4.0 B	20	ug/L	SW846 6010B
Aluminum	71 B,J	100	ug/L	SW846 6010B
Barium	27 J	10	ug/L	SW846 6010B
Beryllium	0.71 B,J	5.0	ug/L	SW846 6010B
Calcium	42000	200	ug/L	SW846 6010B
Copper	4.5 B	20	ug/L	SW846 6010B
Iron	32 B	100	ug/L	SW846 6010B
Potassium	7700	3000	ug/L	SW846 6010B
Magnesium	41000	200	ug/L	SW846 6010B
Sodium	61000	5000	ug/L	SW846 6010B
Vanadium	28	10	ug/L	SW846 6010B
Methylene chloride	0.29 J,B	5.0	ug/L	SW846 8260B
Total Dissolved Solids	470	10	mg/L	MCAWW 160.1
Nitrate	0.88	0.10	mg/L	MCAWW 353.2
Nitrite	0.0034	0.010	mg/L	MCAWW 354.1
	Qualifiers: B,J			
Sulfate	130 Q	25	mg/L	MCAWW 300.0A
CAFB-A 06/16/04 11:50 005				
Perchlorate	2.4 B	0.10	ug/L	SW846 8321A
Arsenic	5.7	5.0	ug/L	SW846 6020
Chromium	2.5 J	2.0	ug/L	SW846 6020
Lead	0.63 B	1.0	ug/L	SW846 6020
Selenium	5.1	5.0	ug/L	SW846 6020
Mercury	0.085 B,J	0.20	ug/L	SW846 7470A
Molybdenum	3.9 B	20	ug/L	SW846 6010B
Aluminum	71 B,J	100	ug/L	SW846 6010B
Barium	32 J	10	ug/L	SW846 6010B
Beryllium	0.65 B,J	5.0	ug/L	SW846 6010B
Calcium	34000	200	ug/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

CANNON-4 : D4F170353

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
CAFB-A 06/16/04 11:50 005				
Copper	1.8 B	20	ug/L	SW846 6010B
Iron	88 B	100	ug/L	SW846 6010B
Potassium	6800	3000	ug/L	SW846 6010B
Magnesium	33000	200	ug/L	SW846 6010B
Manganese	5.7 B	10	ug/L	SW846 6010B
Sodium	51000	5000	ug/L	SW846 6010B
Vanadium	35	10	ug/L	SW846 6010B
Methylene chloride	0.25 J,B	5.0	ug/L	SW846 8260B
Total Dissolved Solids	390	10	mg/L	MCAWW 160.1
Nitrate	1.4	0.10	mg/L	MCAWW 353.2
Nitrite	0.0031	0.010	mg/L	MCAWW 354.1
	Qualifiers: B,J			
Sulfate	90 Q	25	mg/L	MCAWW 300.0A
CAFB-D1 06/16/04 09:10 006				
Perchlorate	0.18 B	0.010	ug/L	SW846 8321A
Arsenic	4.5 B	5.0	ug/L	SW846 6020
Chromium	0.75 B,J	2.0	ug/L	SW846 6020
Lead	0.29 B	1.0	ug/L	SW846 6020
Selenium	0.38 B	5.0	ug/L	SW846 6020
Mercury	0.10 B,J	0.20	ug/L	SW846 7470A
Aluminum	60 B,J	100	ug/L	SW846 6010B
Barium	90 J	10	ug/L	SW846 6010B
Beryllium	0.60 B,J	5.0	ug/L	SW846 6010B
Calcium	33000	200	ug/L	SW846 6010B
Copper	1.2 B	20	ug/L	SW846 6010B
Iron	39 B	100	ug/L	SW846 6010B
Potassium	6700	3000	ug/L	SW846 6010B
Magnesium	33000	200	ug/L	SW846 6010B
Manganese	2.0 B	10	ug/L	SW846 6010B
Sodium	51000	5000	ug/L	SW846 6010B
Vanadium	38	10	ug/L	SW846 6010B
Zinc	170	20	ug/L	SW846 6010B
Methylene chloride	0.25 J,B	5.0	ug/L	SW846 8260B
Trichloroethene	0.45 J	1.0	ug/L	SW846 8260B
Total Dissolved Solids	350	10	mg/L	MCAWW 160.1
Nitrate	1.4	0.10	mg/L	MCAWW 353.2
Nitrite	0.0031	0.010	mg/L	MCAWW 354.1
	Qualifiers: B,J			
Sulfate	30	5.0	mg/L	MCAWW 300.0A

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EXECUTIVE SUMMARY - Detection Highlights

CANNON-4 : D4F170353

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
CAFB-F 06/16/04 11:55 007				
Perchlorate	2.2 B	0.10	ug/L	SW846 8321A
Arsenic	3.2 B	5.0	ug/L	SW846 6020
Cadmium	0.071 B	1.0	ug/L	SW846 6020
Chromium	2.8 J	2.0	ug/L	SW846 6020
Lead	0.26 B	1.0	ug/L	SW846 6020
Selenium	6.2	5.0	ug/L	SW846 6020
Mercury	0.10 B,J	0.20	ug/L	SW846 7470A
Molybdenum	2.7 B	20	ug/L	SW846 6010B
Aluminum	59 B,J	100	ug/L	SW846 6010B
Barium	38 J	10	ug/L	SW846 6010B
Beryllium	0.64 B,J	5.0	ug/L	SW846 6010B
Calcium	51000	200	ug/L	SW846 6010B
Copper	14 B	20	ug/L	SW846 6010B
Iron	53 B	100	ug/L	SW846 6010B
Potassium	8500	3000	ug/L	SW846 6010B
Magnesium	48000	200	ug/L	SW846 6010B
Sodium	55000	5000	ug/L	SW846 6010B
Vanadium	17	10	ug/L	SW846 6010B
Zinc	19 B	20	ug/L	SW846 6010B
Methylene chloride	0.29 J,B	5.0	ug/L	SW846 8260B
Total Dissolved Solids	550	10	mg/L	MCAWW 160.1
Nitrate	1.2	0.10	mg/L	MCAWW 353.2
Nitrite	0.0040	0.010	mg/L	MCAWW 354.1
	Qualifiers: B,J			
Sulfate	130 Q	25	mg/L	MCAWW 300.0A
Total Organic Carbon	9.5	1.0	mg/L	SW846 9060
CAFB-B-EB 06/16/04 08:00 008				
Methylene chloride	0.32 J,B	5.0	ug/L	SW846 8260B

METHODS SUMMARY

CANNON-4

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Chlorinated Herbicides by GC	SW846 8151A	SW846 8151A
Cyanide, Total	SW846 9012A	SW846 9012A
Dioxins/Furans, HRGC/LRMS (8280A)	SW846 8280A	SW846 8280A
Filterable Residue (TDS)	MCAWW 160.1	MCAWW 160.1
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3010A
ICP-MS (6020)	SW846 6020	SW846 3020A
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A	SW846 7470A
Nitrate	MCAWW 353.2	MCAWW 353.2
Nitrite	MCAWW 354.1	
Organochlorine Pesticides	SW846 8081A	SW846 3510C
Polynuclear Aromatic Hydrocarbons by HPLC	SW846 8310	SW846 3510
PCBs by SW-846 8082	SW846 8082	SW846 3510C
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3520C
Sulfate	MCAWW 300.0A	MCAWW 300.0A
Sulfides, Total 9030B/9034	SW846 9030B/903	SW846 9030B/903
Total Organic Carbon	SW846 9060	SW846 9060
Total Organic Halogens	SW846 9020B	SW846 9020B
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3010A
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826
8321A Perchlorate ICMSMS	SW846 8321A	SW846 8321A

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

CANNON-4

ANALYTICAL METHOD	ANALYST	ANALYST ID
MCAWW 160.1	David Kendall	002164
MCAWW 300.0A	Andrita Scofield	004409
MCAWW 353.2	Claire Likar	004382
MCAWW 354.1	Nicole Dean	008504
SW846 6010B	Kristen Roda	5692
SW846 6010B	Lynn-Anne Trudell	6645
SW846 6020	Thomas Lill	6929
SW846 7470A	Kacey Ono	003371
SW846 7470A	Yong-ming Ding	011576
SW846 8081A	Dennis Jonsrud	009226
SW846 8081A	Mike Dobransky	008777
SW846 8082	Steve Jetter	011748
SW846 8151A	Heather Dybas	038161
SW846 8260B	Dan Appelhans	001008
SW846 8260B	Greg Meier	006004
SW846 8260B	Jason Reinhardt	013454
SW846 8270C	David Kidd	007536
SW846 8270C	Judy Murray	016800
SW846 8280A	Janet Hernandez	001970
SW846 8280A	Ross Fernandes	003648
SW846 8310	Heather Dybas	038161
SW846 8321A	Steve Cowling	008738
SW846 9012A	Ewa Kudla	001167
SW846 9020B	Duane Allee	001470
SW846 9020B	Ewa Kudla	001167
SW846 9030B/9034	Dave Elkin	000901
SW846 9060	Dave Elkin	000901

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

CANNON-4 : D4F150189

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GJANT	001	CAFB-V	06/14/04	14:20
GJAPX	002	CAFB-V1	06/14/04	15:00
GJAP9	003	CAFB-S	06/14/04	14:25

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

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SAMPLE SUMMARY

CANNON-4 : D4F160246

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GJEQC	001	CAFB-W	06/15/04	13:00
GJEQW	002	CAFB-XX	06/15/04	09:30
GJEQ3	003	CAFB-X	06/15/04	09:15
GJEQ5	004	CAFB-G	06/15/04	11:20
GJERC	005	CAFB-X-EB	06/15/04	10:00
GJERE	006	CAFB-H	06/15/04	09:45
GJERG	007	CAFB-T	06/15/04	13:00
GJERH	008	CAFB-C	06/15/04	14:30
GJERJ	009	CAFB-X-TB	06/15/04	09:00

NOTE(S):

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- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
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SAMPLE SUMMARY

CANNON-4 : D4F170353

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GJH7K	001	CAFB-D	06/16/04	09:05
GJH78	002	CAFB-U	06/16/04	09:40
GJH8D	003	CAFB-E	06/16/04	13:00
GJH8F	004	CAFB-B	06/16/04	08:30
GJH8G	005	CAFB-A	06/16/04	11:50
GJH8H	006	CAFB-D1	06/16/04	09:10
GJH8M	007	CAFB-F	06/16/04	11:55
GJH8Q	008	CAFB-B-EB	06/16/04	08:00

NOTE(S):

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- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-V

GC/MS Volatiles

Lot-Sample #...: D4F150189-001 **Work Order #...:** GJANT1AA **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:20 **Date Received..:** 06/15/04
Prep Date.....: 06/24/04 **Analysis Date..:** 06/24/04
Prep Batch #...: 4177179 **Analysis Time..:** 18:19
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Acetonitrile	ND	20	ug/L	5.3
Acrolein	ND	20	ug/L	3.1
Acrylonitrile	ND	20	ug/L	3.1
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon disulfide	ND	1.0	ug/L	0.24
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroprene	ND	1.0	ug/L	0.21
Dibromochloromethane	ND	1.0	ug/L	0.19
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
Dibromomethane	ND	1.0	ug/L	0.31
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	0.45
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
1,4-Dioxane	ND	200	ug/L	57
Ethylbenzene	ND	1.0	ug/L	0.12
Ethyl methacrylate	ND	1.0	ug/L	0.48

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-V

GC/MS Volatiles

Lot-Sample #...: D4F150189-001 **Work Order #...:** GJANT1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	1.7
Iodomethane	ND	1.0	ug/L	0.19
Isobutyl alcohol	ND	50	ug/L	15
Methacrylonitrile	ND	10	ug/L	2.3
Methylene chloride	ND	5.0	ug/L	0.21
Methyl methacrylate	ND	1.0	ug/L	0.57
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Propionitrile	ND	20	ug/L	3.8
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	**0.65 J**	**1.0**	**ug/L**	**0.15**
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl acetate	ND	2.0	ug/L	0.56
Vinyl chloride	ND	2.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(76 - 116)
1,2-Dichloroethane-d4	84	(59 - 129)
4-Bromofluorobenzene	102	(74 - 114)
Toluene-d8	112	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

US GEOLOGICAL SURVEY

CAFB-V

GC/MS Volatiles

Lot-Sample #: D4F150189-001 **Work Order #:** GJANT1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Cyclotrisiloxane, hexamethyl-	541-05-9	1.32 T2	M	9.4426	ug/L
Unknown		3.4 J	M	14.695	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-V1

GC/MS Volatiles

Lot-Sample #...: D4F150189-002 **Work Order #...:** GJAPX1AA **Matrix.....:** WATER
Date Sampled...: 06/14/04 15:00 **Date Received..:** 06/15/04
Prep Date.....: 06/24/04 **Analysis Date..:** 06/24/04
Prep Batch #...: 4177179 **Analysis Time..:** 18:42
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Acetonitrile	ND	20	ug/L	5.3
Acrolein	ND	20	ug/L	3.1
Acrylonitrile	ND	20	ug/L	3.1
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon disulfide	ND	1.0	ug/L	0.24
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroprene	ND	1.0	ug/L	0.21
Dibromochloromethane	ND	1.0	ug/L	0.19
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
Dibromomethane	ND	1.0	ug/L	0.31
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	0.45
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
1,4-Dioxane	ND	200	ug/L	57
Ethylbenzene	ND	1.0	ug/L	0.12
Ethyl methacrylate	ND	1.0	ug/L	0.48

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-V1

GC/MS Volatiles

Lot-Sample #...: D4F150189-002 **Work Order #...:** GJAPX1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	1.7
Iodomethane	ND	1.0	ug/L	0.19
Isobutyl alcohol	ND	50	ug/L	15
Methacrylonitrile	ND	10	ug/L	2.3
Methylene chloride	**0.83 J**	**5.0**	**ug/L**	**0.21**
Methyl methacrylate	ND	1.0	ug/L	0.57
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Propionitrile	ND	20	ug/L	3.8
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	**0.47 J**	**1.0**	**ug/L**	**0.15**
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl acetate	ND	2.0	ug/L	0.56
Vinyl chloride	ND	2.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(76 - 116)
1,2-Dichloroethane-d4	86	(59 - 129)
4-Bromofluorobenzene	102	(74 - 114)
Toluene-d8	110	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

US GEOLOGICAL SURVEY

CAFB-V1

GC/MS Volatiles

Lot-Sample #: D4F150189-002 **Work Order #:** GJAPX1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		2.7 J	M	14.693	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-S

GC/MS Volatiles

Lot-Sample #...: D4F150189-003 **Work Order #...:** GJAP91AM **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:25 **Date Received..:** 06/15/04
Prep Date.....: 06/24/04 **Analysis Date..:** 06/24/04
Prep Batch #...: 4177179 **Analysis Time..:** 19:05
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Acetonitrile	ND	20	ug/L	5.3
Acrolein	ND	20	ug/L	3.1
Acrylonitrile	ND	20	ug/L	3.1
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon disulfide	ND	1.0	ug/L	0.24
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroprene	ND	1.0	ug/L	0.21
Dibromochloromethane	ND	1.0	ug/L	0.19
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
Dibromomethane	ND	1.0	ug/L	0.31
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	0.45
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
1,4-Dioxane	ND	200	ug/L	57
Ethylbenzene	ND	1.0	ug/L	0.12
Ethyl methacrylate	ND	1.0	ug/L	0.48

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-S

GC/MS Volatiles

Lot-Sample #...: D4F150189-003 **Work Order #...:** GJAP91AM **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	1.7
Iodomethane	ND	1.0	ug/L	0.19
Isobutyl alcohol	ND	50	ug/L	15
Methacrylonitrile	ND	10	ug/L	2.3
Methylene chloride	ND	5.0	ug/L	0.21
Methyl methacrylate	ND	1.0	ug/L	0.57
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Propionitrile	ND	20	ug/L	3.8
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	**0.29 J**	**1.0**	**ug/L**	**0.15**
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl acetate	ND	2.0	ug/L	0.56
Vinyl chloride	ND	2.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(76 - 116)
1,2-Dichloroethane-d4	82	(59 - 129)
4-Bromofluorobenzene	100	(74 - 114)
Toluene-d8	108	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

US GEOLOGICAL SURVEY

CAFB-S

GC/MS Volatiles

Lot-Sample #: D4F150189-003 **Work Order #:** GJAP91AM **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		2.3 J	M	14.696	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-W

GC/MS Volatiles

Lot-Sample #...: D4F160246-001 **Work Order #...:** GJEQC1AA **Matrix.....:** WATER
Date Sampled...: 06/15/04 13:00 **Date Received..:** 06/16/04
Prep Date.....: 06/26/04 **Analysis Date..:** 06/26/04
Prep Batch #...: 4181517 **Analysis Time..:** 09:59
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Acetonitrile	ND	20	ug/L	5.3
Acrolein	ND	20	ug/L	3.1
Acrylonitrile	ND	20	ug/L	3.1
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon disulfide	ND	1.0	ug/L	0.24
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroprene	ND	1.0	ug/L	0.21
Dibromochloromethane	ND	1.0	ug/L	0.19
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
Dibromomethane	ND	1.0	ug/L	0.31
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	0.45
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
1,4-Dioxane	ND	200	ug/L	57
Ethylbenzene	ND	1.0	ug/L	0.12
Ethyl methacrylate	ND	1.0	ug/L	0.48

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-W

GC/MS Volatiles

Lot-Sample #...: D4F160246-001 **Work Order #...:** GJEQC1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	1.7
Iodomethane	ND	1.0	ug/L	0.19
Isobutyl alcohol	ND	50	ug/L	15
Methacrylonitrile	ND	10	ug/L	2.3
Methylene chloride	**0.37 J,B**	**5.0**	**ug/L**	**0.21**
Methyl methacrylate	ND	1.0	ug/L	0.57
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Propionitrile	ND	20	ug/L	3.8
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	**0.17 J**	**1.0**	**ug/L**	**0.15**
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl acetate	ND	2.0	ug/L	0.56
Vinyl chloride	ND	2.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(76 - 116)
1,2-Dichloroethane-d4	99	(59 - 129)
4-Bromofluorobenzene	107	(74 - 114)
Toluene-d8	95	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

CAFB-W

GC/MS Volatiles

Lot-Sample #: D4F160246-001 **Work Order #:** GJEQC1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-XX

GC/MS Volatiles

Lot-Sample #...: D4F160246-002 **Work Order #...:** GJEQW1AM **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:30 **Date Received..:** 06/16/04
Prep Date.....: 06/26/04 **Analysis Date..:** 06/26/04
Prep Batch #...: 4181517 **Analysis Time..:** 10:22
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Acetonitrile	ND	20	ug/L	5.3
Acrolein	ND	20	ug/L	3.1
Acrylonitrile	ND	20	ug/L	3.1
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon disulfide	ND	1.0	ug/L	0.24
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroprene	ND	1.0	ug/L	0.21
Dibromochloromethane	ND	1.0	ug/L	0.19
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
Dibromomethane	ND	1.0	ug/L	0.31
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	0.45
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
1,4-Dioxane	ND	200	ug/L	57
Ethylbenzene	ND	1.0	ug/L	0.12
Ethyl methacrylate	ND	1.0	ug/L	0.48

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-XX

GC/MS Volatiles

Lot-Sample #...: D4F160246-002 **Work Order #...:** GJEQW1AM **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	1.7
Iodomethane	ND	1.0	ug/L	0.19
Isobutyl alcohol	ND	50	ug/L	15
Methacrylonitrile	ND	10	ug/L	2.3
Methylene chloride	**0.39 J,B**	**5.0**	**ug/L**	**0.21**
Methyl methacrylate	ND	1.0	ug/L	0.57
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Propionitrile	ND	20	ug/L	3.8
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	**0.37 J**	**1.0**	**ug/L**	**0.15**
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl acetate	ND	2.0	ug/L	0.56
Vinyl chloride	ND	2.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(76 - 116)
1,2-Dichloroethane-d4	99	(59 - 129)
4-Bromofluorobenzene	105	(74 - 114)
Toluene-d8	94	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

CAFB-XX

GC/MS Volatiles

Lot-Sample #: D4F160246-002 **Work Order #:** GJEQW1AM **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Acetic acid, 2-ethylhexyl este	103-09-3	2.62 T2	M	16.184	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X

GC/MS Volatiles

Lot-Sample #...: D4F160246-003 **Work Order #...:** GJEQ31AM **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:15 **Date Received..:** 06/16/04
Prep Date.....: 06/26/04 **Analysis Date..:** 06/26/04
Prep Batch #...: 4181517 **Analysis Time..:** 10:46
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Acetonitrile	ND	20	ug/L	5.3
Acrolein	ND	20	ug/L	3.1
Acrylonitrile	ND	20	ug/L	3.1
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon disulfide	ND	1.0	ug/L	0.24
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroprene	ND	1.0	ug/L	0.21
Dibromochloromethane	ND	1.0	ug/L	0.19
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
Dibromomethane	ND	1.0	ug/L	0.31
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	0.45
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
1,4-Dioxane	ND	200	ug/L	57
Ethylbenzene	ND	1.0	ug/L	0.12
Ethyl methacrylate	ND	1.0	ug/L	0.48

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X

GC/MS Volatiles

Lot-Sample #...: D4F160246-003 **Work Order #...:** GJEQ31AM **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	1.7
Iodomethane	ND	1.0	ug/L	0.19
Isobutyl alcohol	ND	50	ug/L	15
Methacrylonitrile	ND	10	ug/L	2.3
Methylene chloride	**0.34 J,B**	**5.0**	**ug/L**	**0.21**
Methyl methacrylate	ND	1.0	ug/L	0.57
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Propionitrile	ND	20	ug/L	3.8
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	**0.35 J**	**1.0**	**ug/L**	**0.15**
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl acetate	ND	2.0	ug/L	0.56
Vinyl chloride	ND	2.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(76 - 116)
1,2-Dichloroethane-d4	96	(59 - 129)
4-Bromofluorobenzene	109	(74 - 114)
Toluene-d8	99	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

CAFB-X

GC/MS Volatiles

Lot-Sample #: D4F160246-003 **Work Order #:** GJEQ31AM **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
3-Methylheptyl acetate	72218-58-7	2.42 T2	M	16.183	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-G

GC/MS Volatiles

Lot-Sample #...: D4F160246-004 **Work Order #...:** GJEQ51AM **Matrix.....:** WATER
Date Sampled...: 06/15/04 11:20 **Date Received..:** 06/16/04
Prep Date.....: 06/26/04 **Analysis Date..:** 06/26/04
Prep Batch #...: 4181517 **Analysis Time..:** 11:10
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Acetonitrile	ND	20	ug/L	5.3
Acrolein	ND	20	ug/L	3.1
Acrylonitrile	ND	20	ug/L	3.1
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon disulfide	ND	1.0	ug/L	0.24
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroprene	ND	1.0	ug/L	0.21
Dibromochloromethane	ND	1.0	ug/L	0.19
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
Dibromomethane	ND	1.0	ug/L	0.31
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	0.45
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
1,4-Dioxane	ND	200	ug/L	57
Ethylbenzene	ND	1.0	ug/L	0.12
Ethyl methacrylate	ND	1.0	ug/L	0.48

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-G

GC/MS Volatiles

Lot-Sample #...: D4F160246-004 **Work Order #...:** GJEQ51AM **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	1.7
Iodomethane	ND	1.0	ug/L	0.19
Isobutyl alcohol	ND	50	ug/L	15
Methacrylonitrile	ND	10	ug/L	2.3
Methylene chloride	**0.35 J,B**	**5.0**	**ug/L**	**0.21**
Methyl methacrylate	ND	1.0	ug/L	0.57
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Propionitrile	ND	20	ug/L	3.8
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl acetate	ND	2.0	ug/L	0.56
Vinyl chloride	ND	2.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(76 - 116)
1,2-Dichloroethane-d4	99	(59 - 129)
4-Bromofluorobenzene	108	(74 - 114)
Toluene-d8	100	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

CAFB-G

GC/MS Volatiles

Lot-Sample #: D4F160246-004 **Work Order #:** GJEQ51AM **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
3-Methylheptyl acetate	72218-58-7	2.82 T2	M	16.189	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X-EB

GC/MS Volatiles

Lot-Sample #...: D4F160246-005 **Work Order #...:** GJERC1AM **Matrix.....:** WATER
Date Sampled...: 06/15/04 10:00 **Date Received..:** 06/16/04
Prep Date.....: 06/26/04 **Analysis Date..:** 06/26/04
Prep Batch #...: 4181517 **Analysis Time..:** 11:33
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**5.7 J**	**10**	**ug/L**	**2.5**
Acetonitrile	ND	20	ug/L	5.3
Acrolein	ND	20	ug/L	3.1
Acrylonitrile	ND	20	ug/L	3.1
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon disulfide	ND	1.0	ug/L	0.24
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroprene	ND	1.0	ug/L	0.21
Dibromochloromethane	ND	1.0	ug/L	0.19
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
Dibromomethane	ND	1.0	ug/L	0.31
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	0.45
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
1,4-Dioxane	ND	200	ug/L	57
Ethylbenzene	ND	1.0	ug/L	0.12
Ethyl methacrylate	ND	1.0	ug/L	0.48

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X-EB

GC/MS Volatiles

Lot-Sample #...: D4F160246-005 **Work Order #...:** GJERC1AM **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	1.7
Iodomethane	ND	1.0	ug/L	0.19
Isobutyl alcohol	ND	50	ug/L	15
Methacrylonitrile	ND	10	ug/L	2.3
Methylene chloride	**0.42 J,B**	**5.0**	**ug/L**	**0.21**
Methyl methacrylate	ND	1.0	ug/L	0.57
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Propionitrile	ND	20	ug/L	3.8
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	**1.1**	**1.0**	**ug/L**	**0.15**
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl acetate	ND	2.0	ug/L	0.56
Vinyl chloride	ND	2.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(76 - 116)
1,2-Dichloroethane-d4	100	(59 - 129)
4-Bromofluorobenzene	110	(74 - 114)
Toluene-d8	98	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

CAFB-X-EB

GC/MS Volatiles

Lot-Sample #: D4F160246-005 **Work Order #:** GJERC1AM **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
3-Methylheptyl acetate	72218-58-7	3.92 T2	M	16.185	ug/L
Unknown		1.5 J	M	17.41	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-H

GC/MS Volatiles

Lot-Sample #...: D4F160246-006 **Work Order #...:** GJERE1AM **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:45 **Date Received..:** 06/16/04
Prep Date.....: 06/26/04 **Analysis Date..:** 06/26/04
Prep Batch #...: 4181517 **Analysis Time..:** 11:57
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Acetonitrile	ND	20	ug/L	5.3
Acrolein	ND	20	ug/L	3.1
Acrylonitrile	ND	20	ug/L	3.1
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon disulfide	ND	1.0	ug/L	0.24
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroprene	ND	1.0	ug/L	0.21
Dibromochloromethane	ND	1.0	ug/L	0.19
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
Dibromomethane	ND	1.0	ug/L	0.31
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	0.45
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
1,4-Dioxane	ND	200	ug/L	57
Ethylbenzene	ND	1.0	ug/L	0.12
Ethyl methacrylate	ND	1.0	ug/L	0.48

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-H

GC/MS Volatiles

Lot-Sample #...: D4F160246-006 **Work Order #...:** GJERE1AM **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	1.7
Iodomethane	ND	1.0	ug/L	0.19
Isobutyl alcohol	ND	50	ug/L	15
Methacrylonitrile	ND	10	ug/L	2.3
Methylene chloride	**0.43 J,B**	**5.0**	**ug/L**	**0.21**
Methyl methacrylate	ND	1.0	ug/L	0.57
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Propionitrile	ND	20	ug/L	3.8
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl acetate	ND	2.0	ug/L	0.56
Vinyl chloride	ND	2.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(76 - 116)
1,2-Dichloroethane-d4	105	(59 - 129)
4-Bromofluorobenzene	111	(74 - 114)
Toluene-d8	97	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

CAFB-H

GC/MS Volatiles

Lot-Sample #: D4F160246-006 **Work Order #:** GJERE1AM **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
3-Methylheptyl acetate	72218-58-7	3.52 T2	M	16.183	ug/L
Unknown		1.8 J	M	17.418	ug/L

NOTE(S):

M: Result was [illegible]ed against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-T

GC/MS Volatiles

Lot-Sample #...: D4F160246-007 **Work Order #...:** GJERG1AM **Matrix.....:** WATER
Date Sampled...: 06/15/04 13:00 **Date Received..:** 06/16/04
Prep Date.....: 06/26/04 **Analysis Date..:** 06/26/04
Prep Batch #...: 4181517 **Analysis Time..:** 12:21
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Acetonitrile	ND	20	ug/L	5.3
Acrolein	ND	20	ug/L	3.1
Acrylonitrile	ND	20	ug/L	3.1
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon disulfide	ND	1.0	ug/L	0.24
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroprene	ND	1.0	ug/L	0.21
Dibromochloromethane	ND	1.0	ug/L	0.19
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
Dibromomethane	ND	1.0	ug/L	0.31
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	0.45
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
1,4-Dioxane	ND	200	ug/L	57
Ethylbenzene	ND	1.0	ug/L	0.12
Ethyl methacrylate	ND	1.0	ug/L	0.48

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-T

GC/MS Volatiles

Lot-Sample #...: D4F160246-007 **Work Order #...:** GJERG1AM **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	1.7
Iodomethane	ND	1.0	ug/L	0.19
Isobutyl alcohol	ND	50	ug/L	15
Methacrylonitrile	ND	10	ug/L	2.3
Methylene chloride	**0.36 J,B**	**5.0**	**ug/L**	**0.21**
Methyl methacrylate	ND	1.0	ug/L	0.57
4-Methy[illegible]-pentanone	ND	5.0	ug/L	0.98
Propion[illegible]ile	ND	20	ug/L	3.8
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,[illegible]1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl acetate	ND	2.0	ug/L	0.56
Vinyl chloride	ND	2.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(76 - 116)
1,2-Dichloroethane-d4	101	(59 - 129)
4-Bromofluorobenzene	104	(74 - 114)
Toluene-d8	97	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

CAFB-T

GC/MS Volatiles

Lot-Sample #: D4F160246-007 **Work Order #:** GJERG1AM **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-C

GC/MS Volatiles

Lot-Sample #...: D4F160246-008 **Work Order #...:** GJERH1AM **Matrix.....:** WATER
Date Sampled...: 06/15/04 14:30 **Date Received..:** 06/16/04
Prep Date.....: 06/26/04 **Analysis Date..:** 06/26/04
Prep Batch #...: 4181517 **Analysis Time..:** 12:45
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Acetonitrile	ND	20	ug/L	5.3
Acrolein	ND	20	ug/L	3.1
Acrylonitrile	ND	20	ug/L	3.1
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon disulfide	ND	1.0	ug/L	0.24
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroprene	ND	1.0	ug/L	0.21
Dibromochloromethane	ND	1.0	ug/L	0.19
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
Dibromomethane	ND	1.0	ug/L	0.31
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	0.45
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
1,4-Dioxane	ND	200	ug/L	57
Ethylbenzene	ND	1.0	ug/L	0.12
Ethyl methacrylate	ND	1.0	ug/L	0.48

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-C

GC/MS Volatiles

Lot-Sample #...: D4F160246-008 **Work Order #...:** GJERH1AM **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	1.7
Iodomethane	ND	1.0	ug/L	0.19
Isobutyl alcohol	ND	50	ug/L	15
Methacrylonitrile	ND	10	ug/L	2.3
Methylene chloride	**0.34 J,B**	**5.0**	**ug/L**	**0.21**
Methyl methacrylate	ND	1.0	ug/L	0.57
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Propionitrile	ND	20	ug/L	3.8
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**0.78 J**	**1.0**	**ug/L**	**0.16**
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl acetate	ND	2.0	ug/L	0.56
Vinyl chloride	ND	2.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(76 - 116)
1,2-Dichloroethane-d4	97	(59 - 129)
4-Bromofluorobenzene	109	(74 - 114)
Toluene-d8	97	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

CAFB-C

GC/MS Volatiles

Lot-Sample #: D4F160246-008 **Work Order #:** GJERH1AM **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Acetic acid, 2-ethylhexyl este	103-09-3	2.82 T2	M	16.191	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X-TB

GC/MS Volatiles

Lot-Sample #...: D4F160246-009 **Work Order #...:** GJERJ1AA **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:00 **Date Received..:** 06/16/04
Prep Date.....: 06/26/04 **Analysis Date..:** 06/26/04
Prep Batch #...: 4181517 **Analysis Time..:** 13:09
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Acetonitrile	ND	20	ug/L	5.3
Acrolein	ND	20	ug/L	3.1
Acrylonitrile	ND	20	ug/L	3.1
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon disulfide	ND	1.0	ug/L	0.24
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroprene	ND	1.0	ug/L	0.21
Dibromochloromethane	ND	1.0	ug/L	0.19
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
Dibromomethane	ND	1.0	ug/L	0.31
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	0.45
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
1,4-Dioxane	ND	200	ug/L	57
Ethylbenzene	ND	1.0	ug/L	0.12
Ethyl methacrylate	ND	1.0	ug/L	0.48

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X-TB

GC/MS Volatiles

Lot-Sample #...: D4F160246-009 **Work Order #...:** GJERJ1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	1.7
Iodomethane	ND	1.0	ug/L	0.19
Isobutyl alcohol	ND	50	ug/L	15
Methacrylonitrile	ND	10	ug/L	2.3
Methylene chloride	**0.50 J,B**	**5.0**	**ug/L**	**0.21**
Methyl methacrylate	ND	1.0	ug/L	0.57
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Propionitrile	ND	20	ug/L	3.8
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl acetate	ND	2.0	ug/L	0.56
Vinyl chloride	ND	2.0	ug/L	0.19
Xylene (total)	ND	2.0	ug/L	0.41

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(76 - 116)
1,2-Dichloroethane-d4	105	(59 - 129)
4-Bromofluorobenzene	114	(74 - 114)
Toluene-d8	101	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

CAFB-X-TB

GC/MS Volatiles

Lot-Sample #: D4F160246-009 **Work Order #:** GJERJ1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Propane	74-98-6	2.22 T2	M	4.2983	ug/L
3-Methylheptyl acetate	72218-58-7	4.12 T2	M	16.187	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D

GC/MS Volatiles

Lot-Sample #...: D4F170353-001 **Work Order #...:** GJH7K1AA **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04
Prep Date.....: 06/28/04 **Analysis Date..:** 06/29/04
Prep Batch #...: 4181544 **Analysis Time..:** 00:58
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Acetonitrile	ND	20	ug/L	5.3
Acrolein	ND	20	ug/L	3.1
Acrylonitrile	ND	20	ug/L	3.1
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon disulfide	ND	1.0	ug/L	0.24
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroprene	ND	1.0	ug/L	0.21
Dibromochloromethane	ND	1.0	ug/L	0.19
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
Dibromomethane	ND	1.0	ug/L	0.31
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	0.45
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
1,4-Dioxane	ND	200	ug/L	57
Ethylbenzene	ND	1.0	ug/L	0.12
Ethyl methacrylate	ND	1.0	ug/L	0.48

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D

GC/MS Volatiles

Lot-Sample #...: D4F170353-001 **Work Order #...:** GJH7K1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	1.7
Iodomethane	ND	1.0	ug/L	0.19
Isobutyl alcohol	ND	50	ug/L	15
Methacrylonitrile	ND	10	ug/L	2.3
Methylene chloride	**0.30 J,B**	**5.0**	**ug/L**	**0.21**
Methyl methacrylate	ND	1.0	ug/L	0.57
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Propionitrile	ND	20	ug/L	3.8
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**0.40 J**	**1.0**	**ug/L**	**0.16**
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl acetate	ND	2.0	ug/L	0.56
Vinyl chloride	ND	2.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(76 - 116)
1,2-Dichloroethane-d4	100	(59 - 129)
4-Bromofluorobenzene	90	(74 - 114)
Toluene-d8	91	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

CAFB-D

GC/MS Volatiles

Lot-Sample #: D4F170353-001 **Work Order #:** GJH7K1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		1.6 J	M	4.6411	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-U

GC/MS Volatiles

Lot-Sample #...: D4F170353-002 **Work Order #...:** GJH781AM **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:40 **Date Received..:** 06/17/04
Prep Date.....: 06/28/04 **Analysis Date..:** 06/29/04
Prep Batch #...: 4181544 **Analysis Time..:** 02:13
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Acetonitrile	ND	20	ug/L	5.3
Acrolein	ND	20	ug/L	3.1
Acrylonitrile	ND	20	ug/L	3.1
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon disulfide	ND	1.0	ug/L	0.24
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroprene	ND	1.0	ug/L	0.21
Dibromochloromethane	ND	1.0	ug/L	0.19
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
Dibromomethane	ND	1.0	ug/L	0.31
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	0.45
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
1,4-Dioxane	ND	200	ug/L	57
Ethylbenzene	ND	1.0	ug/L	0.12
Ethyl methacrylate	ND	1.0	ug/L	0.48

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-U

GC/MS Volatiles

Lot-Sample #...: D4F170353-002 **Work Order #...:** GJH781AM **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	1.7
Iodomethane	ND	1.0	ug/L	0.19
Isobutyl alcohol	ND	50	ug/L	15
Methacrylonitrile	ND	10	ug/L	2.3
Methylene chloride	ND	5.0	ug/L	0.21
Methyl methacrylate	ND	1.0	ug/L	0.57
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Propionitrile	ND	20	ug/L	3.8
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl acetate	ND	2.0	ug/L	0.56
Vinyl chloride	ND	2.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	102	(76 - 116)
1,2-Dichloroethane-d4	100	(59 - 129)
4-Bromofluorobenzene	87	(74 - 114)
Toluene-d8	89	(76 - 116)

US GEOLOGICAL SURVEY

CAFB-U

GC/MS Volatiles

Lot-Sample #: D4F170353-002 **Work Order #:** GJH781AM **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-E

GC/MS Volatiles

Lot-Sample #...: D4F170353-003 **Work Order #...:** GJH8D1AM **Matrix.....:** WATER
Date Sampled...: 06/16/04 13:00 **Date Received..:** 06/17/04
Prep Date.....: 06/28/04 **Analysis Date..:** 06/29/04
Prep Batch #...: 4181544 **Analysis Time..:** 02:38
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Acetonitrile	ND	20	ug/L	5.3
Acrolein	ND	20	ug/L	3.1
Acrylonitrile	ND	20	ug/L	3.1
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon disulfide	ND	1.0	ug/L	0.24
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroprene	ND	1.0	ug/L	0.21
Dibromochloromethane	ND	1.0	ug/L	0.19
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
Dibromomethane	ND	1.0	ug/L	0.31
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	0.45
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
1,4-Dioxane	ND	200	ug/L	57
Ethylbenzene	ND	1.0	ug/L	0.12
Ethyl methacrylate	ND	1.0	ug/L	0.48

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-E

GC/MS Volatiles

Lot-Sample #...: D4F170353-003 **Work Order #...:** GJH8D1AM **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	1.7
Iodomethane	ND	1.0	ug/L	0.19
Isobutyl alcohol	ND	50	ug/L	15
Methacrylonitrile	ND	10	ug/L	2.3
Methylene chloride	**0.26 J,B**	**5.0**	**ug/L**	**0.21**
Methyl methacrylate	ND	1.0	ug/L	0.57
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Propionitrile	ND	20	ug/L	3.8
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	**0.48 J**	**1.0**	**ug/L**	**0.26**
Toluene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl acetate	ND	2.0	ug/L	0.56
Vinyl chloride	ND	2.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(76 - 116)
1,2-Dichloroethane-d4	108	(59 - 129)
4-Bromofluorobenzene	91	(74 - 114)
Toluene-d8	89	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

CAFB-E

GC/MS Volatiles

Lot-Sample #: D4F170353-003 **Work Order #:** GJH8D1AM **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-B

GC/MS Volatiles

Lot-Sample #...: D4F170353-004 **Work Order #...:** GJH8F1AM **Matrix.....:** WATER
Date Sampled...: 06/16/04 08:30 **Date Received..:** 06/17/04
Prep Date.....: 06/28/04 **Analysis Date..:** 06/29/04
Prep Batch #...: 4181544 **Analysis Time..:** 03:02
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Acetonitrile	ND	20	ug/L	5.3
Acrolein	ND	20	ug/L	3.1
Acrylonitrile	ND	20	ug/L	3.1
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon disulfide	ND	1.0	ug/L	0.24
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroprene	ND	1.0	ug/L	0.21
Dibromochloromethane	ND	1.0	ug/L	0.19
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
Dibromomethane	ND	1.0	ug/L	0.31
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	0.45
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
1,4-Dioxane	ND	200	ug/L	57
Ethylbenzene	ND	1.0	ug/L	0.12
Ethyl methacrylate	ND	1.0	ug/L	0.48

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-B

GC/MS Volatiles

Lot-Sample #...: D4F170353-004 **Work Order #...:** GJH8F1AM **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	1.7
Iodomethane	ND	1.0	ug/L	0.19
Isobutyl alcohol	ND	50	ug/L	15
Methacrylonitrile	ND	10	ug/L	2.3
Methylene chloride	**0.29 J,B**	**5.0**	**ug/L**	**0.21**
Methyl methacrylate	ND	1.0	ug/L	0.57
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Propionitrile	ND	20	ug/L	3.8
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl acetate	ND	2.0	ug/L	0.56
Vinyl chloride	ND	2.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromoflu[illegible]omethane	101	(76 - 116)
1,2-Dichlo[illegible]ethane-d4	101	(59 - 129)
4-Bromofluorobenzene	93	(74 - 114)
Toluene-d8	95	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

CAFB-B

GC/MS Volatiles

Lot-Sample #: D4F170353-004 **Work Order #:** GJH8F1AM **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-A

GC/MS Volatiles

Lot-Sample #...: D4F170353-005 **Work Order #...:** GJH8G1AM **Matrix.....:** WATER
Date Sampled...: 06/16/04 11:50 **Date Received..:** 06/17/04
Prep Date.....: 06/28/04 **Analysis Date..:** 06/29/04
Prep Batch #...: 4181544 **Analysis Time..:** 03:27
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Acetonitrile	ND	20	ug/L	5.3
Acrolein	ND	20	ug/L	3.1
Acrylonitrile	ND	20	ug/L	3.1
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon disulfide	ND	1.0	ug/L	0.24
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroprene	ND	1.0	ug/L	0.21
Dibromochloromethane	ND	1.0	ug/L	0.19
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
Dibromomethane	ND	1.0	ug/L	0.31
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	0.45
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
1,4-Dioxane	ND	200	ug/L	57
Ethylbenzene	ND	1.0	ug/L	0.12
Ethyl methacrylate	ND	1.0	ug/L	0.48

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-A

GC/MS Volatiles

Lot-Sample #...: D4F170353-005 **Work Order #...:** GJH8G1AM **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	1.7
Iodomethane	ND	1.0	ug/L	0.19
Isobutyl alcohol	ND	50	ug/L	15
Methacrylonitrile	ND	10	ug/L	2.3
Methylene chloride	**0.25 J,B**	**5.0**	**ug/L**	**0.21**
Methyl methacrylate	ND	1.0	ug/L	0.57
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Propionitrile	ND	20	ug/L	3.8
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl acetate	ND	2.0	ug/L	0.56
Vinyl chloride	ND	2.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(76 - 116)
1,2-Dichloroethane-d4	98	(59 - 129)
4-Bromofluorobenzene	98	(74 - 114)
Toluene-d8	95	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

CAFB-A

GC/MS Volatiles

Lot-Sample #: D4F170353-005 **Work Order #:** GJH8G1AM **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D1

GC/MS Volatiles

Lot-Sample #...: D4F170353-006 **Work Order #...:** GJH8H1AM **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:10 **Date Received..:** 06/17/04
Prep Date.....: 06/28/04 **Analysis Date..:** 06/29/04
Prep Batch #...: 4181544 **Analysis Time..:** 03:52
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Acetonitrile	ND	20	ug/L	5.3
Acrolein	ND	20	ug/L	3.1
Acrylonitrile	ND	20	ug/L	3.1
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon disulfide	ND	1.0	ug/L	0.24
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroprene	ND	1.0	ug/L	0.21
Dibromochloromethane	ND	1.0	ug/L	0.19
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
Dibromomethane	ND	1.0	ug/L	0.31
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	0.45
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
1,4-Dioxane	ND	200	ug/L	57
Ethylbenzene	ND	1.0	ug/L	0.12
Ethyl methacrylate	ND	1.0	ug/L	0.48

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D1

GC/MS Volatiles

Lot-Sample #...: D4F170353-006 **Work Order #...:** GJH8H1AM **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	1.7
Iodomethane	ND	1.0	ug/L	0.19
Isobutyl alcohol	ND	50	ug/L	15
Methacrylonitrile	ND	10	ug/L	2.3
Methylene chloride	**0.25 J,B**	**5.0**	**ug/L**	**0.21**
Methyl methacrylate	ND	1.0	ug/L	0.57
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Propionitrile	ND	20	ug/L	3.8
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**0.45 J**	**1.0**	**ug/L**	**0.16**
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl acetate	ND	2.0	ug/L	0.56
Vinyl chloride	ND	2.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(76 - 116)
1,2-Dichloroethane-d4	105	(59 - 129)
4-Bromofluorobenzene	89	(74 - 114)
Toluene-d8	90	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

CAFB-D1

GC/MS Volatiles

Lot-Sample #: D4F170353-006 **Work Order #:** GJH8H1AM **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-F

GC/MS Volatiles

Lot-Sample #...: D4F170353-007 **Work Order #...:** GJH8M1AM **Matrix.....:** WATER
Date Sampled...: 06/16/04 11:55 **Date Received..:** 06/17/04
Prep Date.....: 06/28/04 **Analysis Date..:** 06/29/04
Prep Batch #...: 4181544 **Analysis Time..:** 04:16
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Acetonitrile	ND	20	ug/L	5.3
Acrolein	ND	20	ug/L	3.1
Acrylonitrile	ND	20	ug/L	3.1
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon disulfide	ND	1.0	ug/L	0.24
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroprene	ND	1.0	ug/L	0.21
Dibromochloromethane	ND	1.0	ug/L	0.19
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
Dibromomethane	ND	1.0	ug/L	0.31
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	0.45
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans 1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
1,4-Dioxane	ND	200	ug/L	57
Ethylbenzene	ND	1.0	ug/L	0.12
Ethyl methacrylate	ND	1.0	ug/L	0.48

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-F

GC/MS Volatiles

Lot-Sample #...: D4F170353-007 **Work Order #...:** GJH8M1AM **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	1.7
Iodomethane	ND	1.0	ug/L	0.19
Isobutyl alcohol	ND	50	ug/L	15
Methacrylonitrile	ND	10	ug/L	2.3
Methylene chloride	**0.29 J,B**	**5.0**	**ug/L**	**0.21**
Methyl methacrylate	ND	1.0	ug/L	0.57
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Propionitrile	ND	20	ug/L	3.8
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl acetate	ND	2.0	ug/L	0.56
Vinyl chloride	ND	2.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(76 - 116)
1,2-Dichloroethane-d4	102	(59 - 129)
4-Bromofluorobenzene	89	(74 - 114)
Toluene-d8	87	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

CAFB-F

GC/MS Volatiles

Lot-Sample #: D4F170353-007 **Work Order #:** GJH8M1AM **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-B-EB

GC/MS Volatiles

Lot-Sample #...: D4F170353-008 **Work Order #...:** GJH8Q1AA **Matrix.....:** WATER
Date Sampled...: 06/16/04 08:00 **Date Received..:** 06/17/04
Prep Date.....: 06/28/04 **Analysis Date..:** 06/29/04
Prep Batch #...: 4181544 **Analysis Time..:** 04:41
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Acetonitrile	ND	20	ug/L	5.3
Acrolein	ND	20	ug/L	3.1
Acrylonitrile	ND	20	ug/L	3.1
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon disulfide	ND	1.0	ug/L	0.24
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroprene	ND	1.0	ug/L	0.21
Dibromochloromethane	ND	1.0	ug/L	0.19
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
Dibromomethane	ND	1.0	ug/L	0.31
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	0.45
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
1,4-Dioxane	ND	200	ug/L	57
Ethylbenzene	ND	1.0	ug/L	0.12
Ethyl methacrylate	ND	1.0	ug/L	0.48

(Continued on next page)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-B-EB

GC/MS Volatiles

Lot-Sample #...: D4F170353-008 **Work Order #...:** GJH8Q1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	1.7
Iodomethane	ND	1.0	ug/L	0.19
Isobutyl alcohol	ND	50	ug/L	15
Methacrylonitrile	ND	10	ug/L	2.3
Methylene chloride	**0.32 J,B**	**5.0**	**ug/L**	**0.21**
Methyl methacrylate	ND	1.0	ug/L	0.57
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Propionitrile	ND	20	ug/L	3.8
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl acetate	ND	2.0	ug/L	0.56
Vinyl chloride	ND	2.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(76 - 116)
1,2-Dichloroethane-d4	98	(59 - 129)
4-Bromofluorobenzene	92	(74 - 114)
Toluene-d8	93	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

CAFB-B-EB

GC/MS Volatiles

Lot-Sample #: D4F170353-008 **Work Order #:** GJH8Q1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		1.9 J	M	4.2805	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-V

GC/MS Semivolatiles

Lot-Sample #...: D4F150189-001 **Work Order #...:** GJANT1AC **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:20 **Date Received..:** 06/15/04
Prep Date.....: 06/16/04 **Analysis Date..:** 06/25/04
Prep Batch #...: 4168427 **Analysis Time..:** 23:45
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	2.0
4-Aminobiphenyl	ND	50	ug/L	2.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	**1.4 J,B**	**10**	**ug/L**	**1.0**
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl)-ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.90
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Dibenz(a,h)anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70

(Continued on next page)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-V

GC/MS Semivolatiles

Lot-Sample #...: D4F150189-001 **Work Order #...:** GJANT1AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,6-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	0.70
4-Dimethylaminoazobenzene	ND	20	ug/L	2.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	3.0
3,3'-Dimethylbenzidine	ND	20	ug/L	4.0
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	11
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
2-sec-Butyl-4,6-dinitrophenol	ND	20	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	2.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	3.0
Methapyrilene	ND	50	ug/L	20
3-Methylcholanthrene	ND	20	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol	ND	10	ug/L	0.80
4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	1.0
2-Naphthylamine	ND	10	ug/L	1.0

(Continued on next page)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-V

GC/MS Semivolatiles

Lot-Sample #...: D4F150189-001 **Work Order #...:** GJANT1AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Nitro-o-toluidine	ND	20	ug/L	2.0
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.70
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
2-Picoline	ND	20	ug/L	3.0
Pronamide	ND	20	ug/L	2.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
Safrole	ND	50	ug/L	2.0
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	2.0
2-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichloro-benzene	ND	10	ug/L	0.90
2,4,5-Trichloro-phenol	ND	10	ug/L	1.0
2,4,6-Trichloro-phenol	ND	10	ug/L	0.80
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0

(Continued on next page)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-V

GC/MS Semivolatiles

Lot-Sample #...: D4F150189-001 **Work Order #...:** GJANT1AC **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	74	(36 - 110)
Phenol-d5	76	(39 - 109)
Nitrobenzene-d5	79	(47 - 107)
2-Fluorobiphenyl	67	(34 - 96)
2,4,6-Tribromophenol	76	(34 - 126)
Terphenyl-d14	76	(12 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

CAFB-V

GC/MS Semivolatiles

Lot-Sample #: D4F150189-001 **Work Order #:** GJANT1AC **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Ethanol, 2-butoxy-	111-76-2	14 J	M	4.4814	ug/L
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	11 J	M	5.2595	ug/L
Unknown		7.9 J	M	11.704	ug/L
Unknown		11 J	M	12.901	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-S

GC/MS Semivolatiles

Lot-Sample #...: D4F150189-003 **Work Order #...:** GJAP91AN **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:25 **Date Received..:** 06/15/04
Prep Date.....: 06/16/04 **Analysis Date..:** 06/26/04
Prep Batch #...: 4168427 **Analysis Time..:** 00:10
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	2.0
4-Aminobiphenyl	ND	50	ug/L	2.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	ND	10	ug/L	1.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl)-ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.90
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Dibenz(a,h)anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-S

GC/MS Semivolatiles

Lot-Sample #...: D4F150189-003 **Work Order #...:** GJAP91AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,6-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	0.70
4-Dimethylaminoazobenzene	ND	20	ug/L	2.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	3.0
3,3'-Dimethylbenzidine	ND	20	ug/L	4.0
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	11
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
2-sec-Butyl-4,6-dinitro-phenol	ND	20	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	2.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopenta-diene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	3.0
Methapyrilene	ND	50	ug/L	20
3-Methylcholanthrene	ND	20	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol	ND	10	ug/L	0.80
4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	1.0
2-Naphthylamine	ND	10	ug/L	1.0

(Continued on next page)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-S

GC/MS Semivolatiles

Lot-Sample #...: D4F150189-003 **Work Order #...:** GJAP91AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Nitro-o-toluidine	ND	20	ug/L	2.0
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.70
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
2-Picoline	ND	20	ug/L	3.0
Pronamide	ND	20	ug/L	2.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
Safrole	ND	50	ug/L	2.0
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	2.0
2-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichloro-benzene	ND	10	ug/L	0.90
2,4,5-Trichloro-phenol	ND	10	ug/L	1.0
2,4,6-Trichloro-phenol	ND	10	ug/L	0.80
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-S

GC/MS Semivolatiles

Lot-Sample #...: D4F150189-003 **Work Order #...:** GJAP91AN **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	76	(36 - 110)
Phenol-d5	77	(39 - 109)
Nitrobenzene-d5	80	(47 - 107)
2-Fluorobiphenyl	64	(34 - 96)
2,4,6-Tribromophenol	76	(34 - 126)
Terphenyl-d14	74	(12 - 126)

US GEOLOGICAL SURVEY

CAFB-S

GC/MS Semivolatiles

Lot-Sample #: D4F150189-003 **Work Order #:** GJAP91AN **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		6.7 J	M	11.717	ug/L
Unknown		11 J	M	12.86	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-W

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-001 **Work Order #...:** GJEQC1AC **Matrix.....:** WATER
Date Sampled...: 06/15/04 13:00 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 06/26/04
Prep Batch #...: 4168427 **Analysis Time..:** 01:50
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	2.0
4-Aminobiphenyl	ND	50	ug/L	2.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	ND	10	ug/L	1.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl)-ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.90
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Dibenz(a,h)anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70

(Continued on next page)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-W

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-001 **Work Order #...:** GJEQC1AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,6-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	0.70
4-Dimethylaminoazobenzene	ND	20	ug/L	2.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	3.0
3,3'-Dimethylbenzidine	ND	20	ug/L	4.0
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	11
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
2-sec-Butyl-4,6-dinitrophenol	ND	20	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	2.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	3.0
Methapyrilene	ND	50	ug/L	20
3-Methylcholanthrene	ND	20	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol	ND	10	ug/L	0.80
4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	1.0
2-Naphthylamine	ND	10	ug/L	1.0

(Continued on next page)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-W

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-001 Work Order #...: GJEQC1AC Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Nitro-o-toluidine	ND	20	ug/L	2.0
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.70
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
2-Picoline	ND	20	ug/L	3.0
Pronamide	ND	20	ug/L	2.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
Safrole	ND	50	ug/L	2.0
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	2.0
2-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichloro-benzene	ND	10	ug/L	0.90
2,4,5-Trichloro-phenol	ND	10	ug/L	1.0
2,4,6-Trichloro-phenol	ND	10	ug/L	0.80
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0

(Continued on next page)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-W

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-001 **Work Order #...:** GJEQC1AC **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	73	(36 - 110)
Phenol-d5	76	(39 - 109)
Nitrobenzene-d5	77	(47 - 107)
2-Fluorobiphenyl	68	(34 - 96)
2,4,6-Tribromophenol	74	(34 - 126)
Terphenyl-d14	72	(12 - 126)

US GEOLOGICAL SURVEY

CAFB-W

GC/MS Semivolatiles

Lot-Sample #: D4F160246-001 **Work Order #:** GJEQC1AC **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Ethanol, 2-butoxy-	111-76-2	4.3 J	M	4.4776	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-XX

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-002 **Work Order #...:** GJEQW1AN **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:30 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 06/26/04
Prep Batch #...: 4168427 **Analysis Time..:** 02:15
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	2.0
4-Aminobiphenyl	ND	50	ug/L	2.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	**1.6 J,B**	**10**	**ug/L**	**1.0**
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl)-ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.90
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Dibenz(a,h)anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-XX

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-002 **Work Order #...:** GJEQW1AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,6-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	0.70
4-Dimethylaminoazobenzene	ND	20	ug/L	2.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	3.0
3,3'-Dimethylbenzidine	ND	20	ug/L	4.0
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	11
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
2-sec-Butyl-4,6-dinitrophenol	ND	20	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	2.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	3.0
Methapyrilene	ND	50	ug/L	20
3-Methylcholanthrene	ND	20	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol	ND	10	ug/L	0.80
4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	1.0
2-Naphthylamine	ND	10	ug/L	1.0

(Continued on next page)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-XX

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-002 **Work Order #...:** GJEQW1AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Nitro-o-toluidine	ND	20	ug/L	2.0
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.70
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
2-Picoline	ND	20	ug/L	3.0
Pronamide	ND	20	ug/L	2.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
Safrole	ND	50	ug/L	2.0
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	2.0
2-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichloro-benzene	ND	10	ug/L	0.90
2,4,5-Trichloro-phenol	ND	10	ug/L	1.0
2,4,6-Trichloro-phenol	ND	10	ug/L	0.80
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-XX

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-002 **Work Order #...:** GJEQW1AN **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	57	(36 - 110)
Phenol-d5	59	(39 - 109)
Nitrobenzene-d5	60	(47 - 107)
2-Fluorobiphenyl	52	(34 - 96)
2,4,6-Tribromophenol	60	(34 - 126)
Terphenyl-d14	60	(12 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

CAFB-XX

GC/MS Semivolatiles

Lot-Sample #: D4F160246-002 **Work Order #:** GJEQW1AN **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Ethanol, 2-butoxy-	111-76-2	15 J	M	4.4781	ug/L
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	14 J	M	5.2563	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-003 **Work Order #...:** GJEQ31AN **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:15 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 06/26/04
Prep Batch #...: 4168427 **Analysis Time..:** 02:40
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	2.0
4-Aminobiphenyl	ND	50	ug/L	2.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	ND	10	ug/L	1.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl)- ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.90
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Dibenz(a,h)anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-003 **Work Order #...:** GJEQ31AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,6-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	0.70
4-Dimethylaminoazobenzene	ND	20	ug/L	2.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	3.0
3,3'-Dimethylbenzidine	ND	20	ug/L	4.0
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	11
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
2-sec-Butyl-4,6-dinitrophenol	ND	20	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	2.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	3.0
Methapyrilene	ND	50	ug/L	20
3-Methylcholanthrene	ND	20	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol	ND	10	ug/L	0.80
4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	1.0
2-Naphthylamine	ND	10	ug/L	1.0

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-003 **Work Order #...:** GJEQ31AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Nitro-o-toluidine	ND	20	ug/L	2.0
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.70
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
2-Picoline	ND	20	ug/L	3.0
Pronamide	ND	20	ug/L	2.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
Safrole	ND	50	ug/L	2.0
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	2.0
2-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichloro-benzene	ND	10	ug/L	0.90
2,4,5-Trichloro-phenol	ND	10	ug/L	1.0
2,4,6-Trichloro-phenol	ND	10	ug/L	0.80
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-003 **Work Order #...:** GJEQ31AN **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	80	(36 - 110)
Phenol-d5	83	(39 - 109)
Nitrobenzene-d5	87	(47 - 107)
2-Fluorobiphenyl	72	(34 - 96)
2,4,6-Tribromophenol	79	(34 - 126)
Terphenyl-d14	80	(12 - 126)

US GEOLOGICAL SURVEY

CAFB-X

GC/MS Semivolatiles

Lot-Sample #: D4F160246-003 **Work Order #:** GJEQ31AN **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		12 J	M	12.78	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-G

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-004 **Work Order #...:** GJEQ51AN **Matrix.....:** WATER
Date Sampled...: 06/15/04 11:20 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 06/26/04
Prep Batch #...: 4168427 **Analysis Time..:** 03:05
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	2.0
4-Aminobiphenyl	ND	50	ug/L	2.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	ND	10	ug/L	1.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl)-ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.90
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Dibenz(a,h)anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-G

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-004 Work Order #...: GJEQ51AN Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,6-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	0.70
4-Dimethylaminoazobenzene	ND	20	ug/L	2.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	3.0
3,3'-Dimethylbenzidine	ND	20	ug/L	4.0
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	11
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
2-sec-Butyl-4,6-dinitrophenol	ND	20	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	2.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	3.0
Methapyrilene	ND	50	ug/L	20
3-Methylcholanthrene	ND	20	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol	ND	10	ug/L	0.80
4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	1.0
2-Naphthylamine	ND	10	ug/L	1.0

(Continued on next page)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-G

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-004 **Work Order #...:** GJEQ51AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Nitro-o-toluidine	ND	20	ug/L	2.0
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.70
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
2-Picoline	ND	20	ug/L	3.0
Pronamide	ND	20	ug/L	2.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
Safrole	ND	50	ug/L	2.0
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	2.0
2-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichloro-benzene	ND	10	ug/L	0.90
2,4,5-Trichloro-phenol	ND	10	ug/L	1.0
2,4,6-Trichloro-phenol	ND	10	ug/L	0.80
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0

(Continued on next page)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-G

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-004 **Work Order #...:** GJEQ51AN **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	76	(36 - 110)
Phenol-d5	78	(39 - 109)
Nitrobenzene-d5	80	(47 - 107)
2-Fluorobiphenyl	68	(34 - 96)
2,4,6-Tribromophenol	79	(34 - 126)
Terphenyl-d14	76	(12 - 126)

US GEOLOGICAL SURVEY

CAFB-G

GC/MS Semivolatiles

Lot-Sample #: D4F160246-004 **Work Order #:** GJEQ51AN **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	9.2 J	M	5.2558	ug/L
Unknown		11 J	M	12.704	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X-EB

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-005 **Work Order #...:** GJERC1AN **Matrix.....:** WATER
Date Sampled...: 06/15/04 10:00 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 06/26/04
Prep Batch #...: 4168427 **Analysis Time..:** 03:30
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	2.0
4-Aminobiphenyl	ND	50	ug/L	2.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	ND	10	ug/L	1.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl)-ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.90
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Dibenz[a,h]anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X-EB

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-005 **Work Order #...:** GJERC1AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,6-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	0.70
4-Dimethylaminoazobenzene	ND	20	ug/L	2.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	3.0
3,3'-Dimethylbenzidine	ND	20	ug/L	4.0
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	11
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
2-sec-Butyl-4,6-dinitrophenol	ND	20	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	2.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	3.0
Methapyrilene	ND	50	ug/L	20
3-Methylcholanthrene	ND	20	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol	ND	10	ug/L	0.80
4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	1.0
2-Naphthylamine	ND	10	ug/L	1.0

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X-EB

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-005 **Work Order #...:** GJERC1AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Nitro-o-toluidine	ND	20	ug/L	2.0
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.70
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
2-Picoline	ND	20	ug/L	3.0
Pronamide	ND	20	ug/L	2.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
Safrole	ND	50	ug/L	2.0
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	2.0
2-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichloro-benzene	ND	10	ug/L	0.90
2,4,5-Trichloro-phenol	ND	10	ug/L	1.0
2,4,6-Trichloro-phenol	ND	10	ug/L	0.80
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X-EB

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-005 **Work Order #...:** GJERC1AN **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	73	(36 - 110)
Phenol-d5	73	(39 - 109)
Nitrobenzene-d5	75	(47 - 107)
2-Fluorobiphenyl	63	(34 - 96)
2,4,6-Tribromophenol	70	(34 - 126)
Terphenyl-d14	71	(12 - 126)

US GEOLOGICAL SURVEY

CAFB-X-EB

GC/MS Semivolatiles

Lot-Sample #: D4F160246-005 **Work Order #:** GJERC1AN **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		11 J	M	12.875	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-H

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-006 **Work Order #...:** GJERE1AN **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:45 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 06/26/04
Prep Batch #...: 4168427 **Analysis Time..:** 03:55
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	2.0
4-Aminobiphenyl	ND	50	ug/L	2.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	ND	10	ug/L	1.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl)-ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.90
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Dibenz(a,h)anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-H

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-006 **Work Order #...:** GJERE1AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,6-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	0.70
4-Dimethylaminoazobenzene	ND	20	ug/L	2.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	3.0
3,3'-Dimethylbenzidine	ND	20	ug/L	4.0
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	11
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
2-sec-Butyl-4,6-dinitrophenol	ND	20	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	2.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	3.0
Methapyrilene	ND	50	ug/L	20
3-Methylcholanthrene	ND	20	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol	ND	10	ug/L	0.80
4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	1.0
2-Naphthylamine	ND	10	ug/L	1.0

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-H

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-006 **Work Order #...:** GJERE1AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Nitro-o-toluidine	ND	20	ug/L	2.0
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.70
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
2-Picoline	ND	20	ug/L	3.0
Pronamide	ND	20	ug/L	2.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
Safrole	ND	50	ug/L	2.0
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	2.0
2-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichloro-benzene	ND	10	ug/L	0.90
2,4,5-Trichloro-phenol	ND	10	ug/L	1.0
2,4,6-Trichloro-phenol	ND	10	ug/L	0.80
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0

(Continued on next page)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-H

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-006 **Work Order #...:** GJERE1AN **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	73	(36 - 110)
Phenol-d5	74	(39 - 109)
Nitrobenzene-d5	78	(47 - 107)
2-Fluorobiphenyl	66	(34 - 96)
2,4,6-Tribromophenol	72	(34 - 126)
Terphenyl-d14	73	(12 - 126)

US GEOLOGICAL SURVEY

CAFB-H

GC/MS Semivolatiles

Lot-Sample #: D4F160246-006 **Work Order #:** GJERE1AN **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	6.7 J	M	5.2559	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-T

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-007 **Work Order #...:** GJERG1AN **Matrix.....:** WATER
Date Sampled...: 06/15/04 13:00 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 06/26/04
Prep Batch #...: 4168427 **Analysis Time..:** 04:20
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	2.0
4-Aminobiphenyl	ND	50	ug/L	2.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	ND	10	ug/L	1.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl)-ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.90
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Dibenz(a,h)anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70

(Continued on next page)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-T

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-007 **Work Order #...:** GJERG1AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,6-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	0.70
4-Dimethylaminoazobenzene	ND	20	ug/L	2.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	3.0
3,3'-Dimethylbenzidine	ND	20	ug/L	4.0
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	11
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
2-sec-Butyl-4,6-dinitro-phenol	ND	20	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	2.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopenta-diene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	3.0
Methapyrilene	ND	50	ug/L	20
3-Methylcholanthrene	ND	20	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol	ND	10	ug/L	0.80
4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	1.0
2-Naphthylamine	ND	10	ug/L	1.0

(Continued on next page)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-T

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-007 Work Order #...: GJERG1AN Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Nitro-o-toluidine	ND	20	ug/L	2.0
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.70
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
2-Picoline	ND	20	ug/L	3.0
Pronamide	ND	20	ug/L	2.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
Safrole	ND	50	ug/L	2.0
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	2.0
2-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichloro-benzene	ND	10	ug/L	0.90
2,4,5-Trichloro-phenol	ND	10	ug/L	1.0
2,4,6-Trichloro-phenol	ND	10	ug/L	0.80
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-T

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-007 **Work Order #...:** GJERG1AN **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	74	(36 - 110)
Phenol-d5	76	(39 - 109)
Nitrobenzene-d5	77	(47 - 107)
2-Fluorobiphenyl	68	(34 - 96)
2,4,6-Tribromophenol	77	(34 - 126)
Terphenyl-d14	78	(12 - 126)

US GEOLOGICAL SURVEY

CAFB-T

GC/MS Semivolatiles

Lot-Sample #: D4F160246-007 **Work Order #:** GJERG1AN **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-C

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-008 **Work Order #...:** GJERH1AN **Matrix.....:** WATER
Date Sampled...: 06/15/04 14:30 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 06/26/04
Prep Batch #...: 4168427 **Analysis Time..:** 04:45
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	2.0
4-Aminobiphenyl	ND	50	ug/L	2.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	ND	10	ug/L	1.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl)- ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.90
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Dibenz(a,h)anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-C

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-008 **Work Order #...:** GJERH1AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,6-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	0.70
4-Dimethylaminoazobenzene	ND	20	ug/L	2.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	3.0
3,3'-Dimethylbenzidine	ND	20	ug/L	4.0
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	11
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
2-sec-Butyl-4,6-dinitrophenol	ND	20	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	2.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	3.0
Methapyrilene	ND	50	ug/L	20
3-Methylcholanthrene	ND	20	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol	ND	10	ug/L	0.80
4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	1.0
2-Naphthylamine	ND	10	ug/L	1.0

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-C

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-008 **Work Order #...:** GJERH1AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Nitro-o-toluidine	ND	20	ug/L	2.0
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.70
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
2-Picoline	ND	20	ug/L	3.0
Pronamide	ND	20	ug/L	2.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
Safrole	ND	50	ug/L	2.0
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	2.0
2-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichloro-benzene	ND	10	ug/L	0.90
2,4,5-Trichloro-phenol	ND	10	ug/L	1.0
2,4,6-Trichloro-phenol	ND	10	ug/L	0.80
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-C

GC/MS Semivolatiles

Lot-Sample #...: D4F160246-008 **Work Order #...:** GJERH1AN **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	81	(36 - 110)
Phenol-d5	83	(39 - 109)
Nitrobenzene-d5	88	(47 - 107)
2-Fluorobiphenyl	75	(34 - 96)
2,4,6-Tribromophenol	86	(34 - 126)
Terphenyl-d14	82	(12 - 126)

US GEOLOGICAL SURVEY

CAFB-C

GC/MS Semivolatiles

Lot-Sample #: D4F160246-008 **Work Order #:** GJERH1AN **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		5.1 J	M	4.4813	ug/L
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	10 J	M	5.2594	ug/L
Unknown		10 J	M	12.81	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-001 Work Order #...: GJH7K1AC Matrix.....: WATER
Date Sampled...: 06/16/04 09:05 Date Received..: 06/17/04
Prep Date.....: 06/17/04 Analysis Date..: 06/30/04
Prep Batch #...: 4169513 Analysis Time..: 05:27
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	2.0
4-Aminobiphenyl	ND	50	ug/L	2.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	ND	10	ug/L	1.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl)-ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.90
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Dibenz(a,h)anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-001 **Work Order #...:** GJH7K1AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,6-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	0.70
4-Dimethylaminoazobenzene	ND	20	ug/L	2.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	3.0
3,3'-Dimethylbenzidine	ND	20	ug/L	4.0
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	11
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
2-sec-Butyl-4,6-dinitrophenol	ND	20	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	2.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	3.0
Methapyrilene	ND	50	ug/L	20
3-Methylcholanthrene	ND	20	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol	ND	10	ug/L	0.80
4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	1.0
2-Naphthylamine	ND	10	ug/L	1.0

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-001 **Work Order #...:** GJH7K1AC **Matrix.....:** WATER

RAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Nitro-o-toluidine	ND	20	ug/L	2.0
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.70
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
2-Picoline	ND	20	ug/L	3.0
Pronamide	ND	20	ug/L	2.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
Safrole	ND	50	ug/L	2.0
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	2.0
2-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichloro-benzene	ND	10	ug/L	0.90
2,4,5-Trichloro-phenol	ND	10	ug/L	1.0
2,4,6-Trichloro-phenol	ND	10	ug/L	0.80
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0

(Continued on next page)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-001 **Work Order #...:** GJH7K1AC **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	68	(36 - 110)
Phenol-d5	67	(39 - 109)
Nitrobenzene-d5	67	(47 - 107)
2-Fluorobiphenyl	68	(34 - 96)
2,4,6-Tribromophenol	77	(34 - 126)
Terphenyl-d14	86	(12 - 126)

US GEOLOGICAL SURVEY

CAFB-D

GC/MS Semivolatiles

Lot-Sample #: D4F170353-001 **Work Order #:** GJH7K1AC **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Butane, 2-methoxy-2-methyl-	994-05-8	95 J	M	2.7216	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-U

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-002 **Work Order #...:** GJH781AN **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:40 **Date Received..:** 06/17/04
Prep Date.....: 06/17/04 **Analysis Date..:** 07/01/04
Prep Batch #...: 4169513 **Analysis Time..:** 21:09
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	2.0
4-Aminobiphenyl	ND	50	ug/L	2.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	ND	10	ug/L	1.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl)-ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	**9.7 J**	**10**	**ug/L**	**0.90**
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Dibenz(a,h)anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70

(Continued on next page)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-U

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-002 **Work Order #...:** GJH781AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,6-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	0.70
4-Dimethylaminoazobenzene	ND	20	ug/L	2.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	3.0
3,3'-Dimethylbenzidine	ND	20	ug/L	4.0
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	11
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
2-sec-Butyl-4,6-dinitro-phenol	ND	20	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	2.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopenta-diene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	3.0
Methapyrilene	ND	50	ug/L	20
3-Methylcholanthrene	ND	20	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol	ND	10	ug/L	0.80
4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	1.0
2-Naphthylamine	ND	10	ug/L	1.0

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-U

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-002 **Work Order #...:** GJH781AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Nitro-o-toluidine	ND	20	ug/L	2.0
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.70
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
2-Picoline	ND	20	ug/L	3.0
Pronamide	ND	20	ug/L	2.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
Safrole	ND	50	ug/L	2.0
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	2.0
2-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichloro-benzene	ND	10	ug/L	0.90
2,4,5-Trichloro-phenol	ND	10	ug/L	1.0
2,4,6-Trichloro-phenol	ND	10	ug/L	0.80
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-U

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-002 **Work Order #...:** GJH781AN **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	59	(36 - 110)
Phenol-d5	60	(39 - 109)
Nitrobenzene-d5	61	(47 - 107)
2-Fluorobiphenyl	58	(34 - 96)
2,4,6-Tribromophenol	75	(34 - 126)
Terphenyl-d14	79	(12 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

US GEOLOGICAL SURVEY

CAFB-U

GC/MS Semivolatiles

Lot-Sample #: D4F170353-002 **Work Order #:** GJH781AN **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		110 J	M	2.6791	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-E

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-003 **Work Order #...:** GJH8D1AN **Matrix.....:** WATER
Date Sampled...: 06/16/04 13:00 **Date Received..:** 06/17/04
Prep Date.....: 06/17/04 **Analysis Date..:** 07/01/04
Prep Batch #...: 4169513 **Analysis Time..:** 21:34
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	2.0
4-Aminobiphenyl	ND	50	ug/L	2.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	ND	10	ug/L	1.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl)-ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.90
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Dibenz(a,h)anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-E

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-003 **Work Order #...:** GJH8D1AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,6-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	0.70
4-Dimethylaminoazobenzene	ND	20	ug/L	2.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	3.0
3,3'-Dimethylbenzidine	ND	20	ug/L	4.0
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	11
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
2-sec-Butyl-4,6-dinitro-phenol	ND	20	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	2.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopenta-diene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	3.0
Methapyrilene	ND	50	ug/L	20
3-Methylcholanthrene	ND	20	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol	ND	10	ug/L	0.80
4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	1.0
2-Naphthylamine	ND	10	ug/L	1.0

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-E

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-003 **Work Order #...:** GJH8D1AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Ni o-o-toluidine	ND	20	ug/L	2.0
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.70
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.70
Phenc	ND	10	ug/L	0.90
2-Pic ine	ND	20	ug/L	3.0
Pronamide	ND	20	ug/L	2.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
Safrole	ND	50	ug/L	2.0
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	2.0
2-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichloro-benzene	ND	10	ug/L	0.90
2,4,5-Trichloro-phenol	ND	10	ug/L	1.0
2,4,6-Trichloro-phenol	ND	10	ug/L	0.80
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-E

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-003 **Work Order #...:** GJH8D1AN **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	78	(36 - 110)
Phenol-d5	79	(39 - 109)
Nitrobenzene-d5	79	(47 - 107)
2-Fluorobiphenyl	75	(34 - 96)
2,4,6-Tribromophenol	94	(34 - 126)
Terphenyl-d14	93	(12 - 126)

US GEOLOGICAL SURVEY

CAFB-E

GC/MS Semivolatiles

Lot-Sample #: D4F170353-003 **Work Order #:** GJH8D1AN **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Butane, 2-methoxy-2-methyl-	994-05-8	130 J	M	2.6735	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-B

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-004 **Work Order #...:** GJH8F1AN **Matrix.....:** WATER
Date Sampled...: 06/16/04 08:30 **Date Received..:** 06/17/04
Prep Date.....: 06/17/04 **Analysis Date..:** 07/02/04
Prep Batch #...: 4169513 **Analysis Time..:** 22:40
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	2.0
4-Aminobiphenyl	ND	50	ug/L	2.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	ND	10	ug/L	1.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl)-ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.90
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Dibenz(a,h)anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70

(Continued on next page)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-B

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-004 **Work Order #...:** GJH8F1AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,6-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	0.70
4-Dimethylaminoazobenzene	ND	20	ug/L	2.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	3.0
3,3'-Dimethylbenzidine	ND	20	ug/L	4.0
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	11
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
2-sec-Butyl-4,6-dinitrophenol	ND	20	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	2.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	3.0
Methapyrilene	ND	50	ug/L	20
3-Methylcholanthrene	ND	20	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol	ND	10	ug/L	0.80
4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	1.0
2-Naphthylamine	ND	10	ug/L	1.0

(Continued on next page)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-B

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-004 **Work Order #...:** GJH8F1AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Nitro-o-toluidine	ND	20	ug/L	2.0
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.70
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
2-Picoline	ND	20	ug/L	3.0
Pronamide	ND	20	ug/L	2.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
Safrole	ND	50	ug/L	2.0
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	2.0
2-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichloro-benzene	ND	10	ug/L	0.90
2,4,5-Trichloro-phenol	ND	10	ug/L	1.0
2,4,6-Trichloro-phenol	ND	10	ug/L	0.80
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0

(Continued on next page)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-B

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-004 **Work Order #...:** GJH8F1AN **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	72	(36 - 110)
Phenol-d5	75	(39 - 109)
Nitrobenzene-d5	71	(47 - 107)
2-Fluorobiphenyl	61	(34 - 96)
2,4,6-Tribromophenol	63	(34 - 126)
Terphenyl-d14	80	(12 - 126)

US GEOLOGICAL SURVEY

CAFB-B

GC/MS Semivolatiles

Lot-Sample #: D4F170353-004 **Work Order #:** GJH8F1AN **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		130 J	M	2.6637	ug/L
Unknown		26 J	M	4.9649	ug/L
Cyclopentasiloxane, decamethyl	541-02-6	11 J	M	6.0118	ug/L
Cyclohexasiloxane, dodecamethy	540-97-6	6.7 J	M	7.0534	ug/L
Unknown		5.0 J	M	10.141	ug/L
Unknown		5.1 J	M	10.406	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-A

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-005 **Work Order #...:** GJH8G1AN **Matrix.....:** WATER
Date Sampled...: 06/16/04 11:50 **Date Received..:** 06/17/04
Prep Date.....: 06/17/04 **Analysis Date..:** 07/02/04
Prep Batch #...: 4169513 **Analysis Time..:** 23:06
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	2.0
4-Aminobiphenyl	ND	50	ug/L	2.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	ND	10	ug/L	1.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl)-ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.90
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Dibenz(a,h)anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-A

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-005 **Work Order #...:** GJH8G1AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,6-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	0.70
4-Dimethylaminoazobenzene	ND	20	ug/L	2.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	3.0
3,3'-Dimethylbenzidine	ND	20	ug/L	4.0
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	11
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
2-sec-Butyl-4,6-dinitrophenol	ND	20	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	2.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	3.0
Methapyrilene	ND	50	ug/L	20
3-Methylcholanthrene	ND	20	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol	ND	10	ug/L	0.80
4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	1.0
2-Naphthylamine	ND	10	ug/L	1.0

(Continued on next page)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-A

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-005 Work Order #...: GJH8G1AN Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Nitro-o-toluidine	ND	20	ug/L	2.0
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.70
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
2-Picoline	ND	20	ug/L	3.0
Pronamide	ND	20	ug/L	2.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
Safrole	ND	50	ug/L	2.0
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	2.0
2-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichloro-benzene	ND	10	ug/L	0.90
2,4,5-Trichloro-phenol	ND	10	ug/L	1.0
2,4,6-Trichloro-phenol	ND	10	ug/L	0.80
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-A

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-005 **Work Order #...:** GJH8G1AN **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	70	(36 - 110)
Phenol-d5	74	(39 - 109)
Nitrobenzene-d5	71	(47 - 107)
2-Fluorobiphenyl	61	(34 - 96)
2,4,6-Tribromophenol	66	(34 - 126)
Terphenyl-d14	81	(12 - 126)

US GEOLOGICAL SURVEY

CAFB-A

GC/MS Semivolatiles

Lot-Sample #: D4F170353-005 **Work Order #:** GJH8G1AN **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		120 J	M	2.6633	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D1

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-006 **Work Order #...:** GJH8H1AN **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:10 **Date Received..:** 06/17/04
Prep Date.....: 06/17/04 **Analysis Date..:** 07/02/04
Prep Batch #...: 4169513 **Analysis Time..:** 23:31
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	2.0
4-Aminobiphenyl	ND	50	ug/L	2.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	ND	10	ug/L	1.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl)-ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.90
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Dibenz(a,h)anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D1

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-006 **Work Order #...:** GJH8H1AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,6-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	0.70
4-Dimethylaminoazobenzene	ND	20	ug/L	2.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	3.0
3,3'-Dimethylbenzidine	ND	20	ug/L	4.0
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	11
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
2-sec-Butyl-4,6-dinitrophenol	ND	20	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	2.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	3.0
Methapyrilene	ND	50	ug/L	20
3-Methylcholanthrene	ND	20	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol	ND	10	ug/L	0.80
4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	1.0
2-Naphthylamine	ND	10	ug/L	1.0

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D1

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-006 **Work Order #...:** GJH8H1AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Nitro-o-toluidine	ND	20	ug/L	2.0
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.70
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
2-Picoline	ND	20	ug/L	3.0
Pronamide	ND	20	ug/L	2.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
Safrole	ND	50	ug/L	2.0
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	2.0
2-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichloro-benzene	ND	10	ug/L	0.90
2,4,5-Trichloro-phenol	ND	10	ug/L	1.0
2,4,6-Trichloro-phenol	ND	10	ug/L	0.80
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D1

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-006 **Work Order #...:** GJH8H1AN **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	74	(36 - 110)
Phenol-d5	76	(39 - 109)
Nitrobenzene-d5	75	(47 - 107)
2-Fluorobiphenyl	65	(34 - 96)
2,4,6-Tribromophenol	69	(34 - 126)
Terphenyl-d14	85	(12 - 126)

US GEOLOGICAL SURVEY

CAFB-D1

GC/MS Semivolatiles

Lot-Sample #: D4F170353-006 **Work Order #:** GJH8H1AN **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		110 J	M	2.6636	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-F

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-007 **Work Order #...:** GJH8M1AN **Matrix.....:** WATER
Date Sampled...: 06/16/04 11:55 **Date Received..:** 06/17/04
Prep Date.....: 06/17/04 **Analysis Date..:** 07/02/04
Prep Batch #...: 4169513 **Analysis Time..:** 23:56
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	2.0
4-Aminobiphenyl	ND	50	ug/L	2.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benz(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	ND	10	ug/L	1.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl)-ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.90
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Dibenz(a,h)anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-F

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-007 **Work Order #...:** GJH8M1AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,6-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	0.70
4-Dimethylaminoazobenzene	ND	20	ug/L	2.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	3.0
3,3'-Dimethylbenzidine	ND	20	ug/L	4.0
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	11
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
2-sec-Butyl-4,6-dinitrophenol	ND	20	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	2.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	3.0
Methapyrilene	ND	50	ug/L	20
3-Methylcholanthrene	ND	20	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol	ND	10	ug/L	0.80
4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	1.0
2-Naphthylamine	ND	10	ug/L	1.0

(Continued on next page)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-F

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-007 Work Order #...: GJH8M1AN Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Nitro-o-toluidine	ND	20	ug/L	2.0
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.70
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
2-Picoline	ND	20	ug/L	3.0
Pronamide	ND	20	ug/L	2.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
Safrole	ND	50	ug/L	2.0
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	2.0
2-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichloro-benzene	ND	10	ug/L	0.90
2,4,5-Trichloro-phenol	ND	10	ug/L	1.0
2,4,6-Trichloro-phenol	ND	10	ug/L	0.80
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-F

GC/MS Semivolatiles

Lot-Sample #...: D4F170353-007 **Work Order #...:** GJH8M1AN **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	69	(36 - 110)
Phenol-d5	72	(39 - 109)
Nitrobenzene-d5	68	(47 - 107)
2-Fluorobiphenyl	60	(34 - 96)
2,4,6-Tribromophenol	63	(34 - 126)
Terphenyl-d14	79	(12 - 126)

US GEOLOGICAL SURVEY

CAFB-F

GC/MS Semivolatiles

Lot-Sample #: D4F170353-007 **Work Order #:** GJH8M1AN **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		120 J	M	2.6637	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-V

GC Semivolatiles

Lot-Sample #...: D4F150189-001 **Work Order #...:** GJANT1AD **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:20 **Date Received..:** 06/15/04
Prep Date.....: 06/15/04 **Analysis Date..:** 06/17/04
Prep Batch #...: 4167449 **Analysis Time..:** 21:22
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.012
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.010
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0080
alpha-Chlordane	ND	0.050	ug/L	0.020
gamma-Chlordane	ND	0.050	ug/L	0.020
4,4'-DDD	ND	0.050	ug/L	0.010
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.015
Diallate	ND	1.0	ug/L	0.40
Dieldrin	ND	0.050	ug/L	0.0090
Endosulfan I	ND	0.050	ug/L	0.020
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Endrin	ND	0.050	ug/L	0.020
Endrin aldehyde	ND	0.050	ug/L	0.014
Endrin ketone	ND	0.050	ug/L	0.0090
Heptachlor	ND	0.050	ug/L	0.010
Heptachlor epoxide	ND	0.050	ug/L	0.010
Isodrin	ND	0.10	ug/L	0.030
Kepone	ND	1.0	ug/L	0.36
Methoxychlor	ND	0.10	ug/L	0.020
Toxaphene	ND	5.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	96	(12 - 153)
Tetrachloro-m-xylene	87	(55 - 113)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-S

GC Semivolatiles

Lab-Sample #...: D4F150189-003 **Work Order #...:** GJAP91AP **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:25 **Date Received..:** 06/15/04
Prep Date.....: 06/15/04 **Analysis Date..:** 06/17/04
Prep Batch #...: 4167449 **Analysis Time..:** 21:38
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.012
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.010
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0080
alpha-Chlordane	ND	0.050	ug/L	0.020
gamma-Chlordane	ND	0.050	ug/L	0.020
4,4'-DDD	ND	0.050	ug/L	0.010
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.015
Diallate	ND	1.0	ug/L	0.40
Dieldrin	ND	0.050	ug/L	0.0090
Endosulfan I	ND	0.050	ug/L	0.020
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Endrin	ND	0.050	ug/L	0.020
Endrin aldehyde	ND	0.050	ug/L	0.014
Endrin ketone	ND	0.050	ug/L	0.0090
Heptachlor	ND	0.050	ug/L	0.010
Heptachlor epoxide	ND	0.050	ug/L	0.010
Isodrin	ND	0.10	ug/L	0.030
Kepone	ND	1.0	ug/L	0.36
Methoxychlor	ND	0.10	ug/L	0.020
Toxaphene	ND	5.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	98	(12 - 153)
Tetrachloro-m-xylene	84	(55 - 113)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-W

GC Semivolatiles

Lot-Sample #...: D4F160246-001 **Work Order #...:** GJEQC1AD **Matrix.....:** WATER
Date Sampled...: 06/15/04 13:00 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 07/08/04
Prep Batch #...: 4168385 **Analysis Time..:** 23:02
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.012
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.010
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0080
alpha-Chlordane	ND	0.050	ug/L	0.020
gamma-Chlordane	ND	0.050	ug/L	0.020
4,4'-DDD	ND	0.050	ug/L	0.010
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.015
Diallate	ND	1.0	ug/L	0.40
Dieldrin	ND	0.050	ug/L	0.0090
Endosulfan I	ND	0.050	ug/L	0.020
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Endrin	ND	0.050	ug/L	0.020
Endrin aldehyde	ND	0.050	ug/L	0.014
Endrin ketone	ND	0.050	ug/L	0.0090
Heptachlor	ND	0.050	ug/L	0.010
Heptachlor epoxide	ND	0.050	ug/L	0.010
Isodrin	ND	0.10	ug/L	0.030
Kepone	ND	1.0	ug/L	0.36
Methoxychlor	ND	0.10	ug/L	0.020
Toxaphene	ND	5.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	68	(12 - 153)
Tetrachloro-m-xylene	77	(55 - 113)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-XX

GC Semivolatiles

Lot-Sample #...: D4F160246-002 **Work Order #...:** GJEQW1AP **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:30 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 07/08/04
Prep Batch #...: 4168385 **Analysis Time..:** 23:19
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.012
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.010
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0080
alpha-Chlordane	ND	0.050	ug/L	0.020
gamma-Chlordane	ND	0.050	ug/L	0.020
4,4'-DDD	ND	0.050	ug/L	0.010
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.015
Diallate	ND	1.0	ug/L	0.40
Dieldrin	ND	0.050	ug/L	0.0090
Endosulfan I	ND	0.050	ug/L	0.020
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Endrin	ND	0.050	ug/L	0.020
Endrin aldehyde	ND	0.050	ug/L	0.014
Endrin ketone	ND	0.050	ug/L	0.0090
Heptachlor	ND	0.050	ug/L	0.010
Heptachlor epoxide	ND	0.050	ug/L	0.010
Isodrin	ND	0.10	ug/L	0.030
Kepone	ND	1.0	ug/L	0.36
Methoxychlor	ND	0.10	ug/L	0.020
Toxaphene	ND	5.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	84	(12 - 153)
Tetrachloro-m-xylene	78	(55 - 113)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X

GC Semivolatiles

Lot-Sample #...: D4F160246-003 **Work Order #...:** GJEQ31AP **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:15 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 07/08/04
Prep Batch #...: 4168385 **Analysis Time..:** 23:36
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.012
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.010
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0080
alpha-Chlordane	ND	0.050	ug/L	0.020
gamma-Chlordane	ND	0.050	ug/L	0.020
4,4'-DDD	ND	0.050	ug/L	0.010
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.015
Diallate	ND	1.0	ug/L	0.40
Dieldrin	ND	0.050	ug/L	0.0090
Endosulfan I	ND	0.050	ug/L	0.020
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Endrin	ND	0.050	ug/L	0.020
Endrin aldehyde	ND	0.050	ug/L	0.014
Endrin ketone	ND	0.050	ug/L	0.0090
Heptachlor	ND	0.050	ug/L	0.010
Heptachlor epoxide	ND	0.050	ug/L	0.010
Isodrin	ND	0.10	ug/L	0.030
Kepone	ND	1.0	ug/L	0.36
Methoxychlor	ND	0.10	ug/L	0.020
Toxaphene	ND	5.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	86	(12 - 153)
Tetrachloro-m-xylene	79	(55 - 113)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-G

GC Semivolatiles

Lot-Sample #...: D4F160246-004 **Work Order #...:** GJEQ51AP **Matrix.....:** WATER
Date Sampled...: 06/15/04 11:20 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 07/08/04
Prep Batch #...: 4168385 **Analysis Time..:** 23:53
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.012
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.010
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0080
alpha-Chlordane	ND	0.050	ug/L	0.020
gamma-Chlordane	ND	0.050	ug/L	0.020
4,4'-DDD	ND	0.050	ug/L	0.010
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.015
Diallate	ND	1.0	ug/L	0.40
Dieldrin	ND	0.050	ug/L	0.0090
Endosulfan I	ND	0.050	ug/L	0.020
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Endrin	ND	0.050	ug/L	0.020
Endrin aldehyde	ND	0.050	ug/L	0.014
Endrin ketone	ND	0.050	ug/L	0.0090
Heptachlor	ND	0.050	ug/L	0.010
Heptachlor epoxide	ND	0.050	ug/L	0.010
Isodrin	ND	0.10	ug/L	0.030
Kepone	ND	1.0	ug/L	0.36
Methoxychlor	ND	0.10	ug/L	0.020
Toxaphene	ND	5.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	81	(12 - 153)
Tetrachloro-m-xylene	77	(55 - 113)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X-EB

GC Semivolatiles

Lot-Sample #...: D4F160246-005 **Work Order #...:** GJERC1AP **Matrix.....:** WATER
Date Sampled...: 06/15/04 10:00 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 07/09/04
Prep Batch #...: 4168385 **Analysis Time..:** 00:10
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.012
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.010
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0080
alpha-Chlordane	ND	0.050	ug/L	0.020
gamma-Chlordane	ND	0.050	ug/L	0.020
4,4'-DDD	ND	0.050	ug/L	0.010
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.015
Diallate	ND	1.0	ug/L	0.40
Dieldrin	ND	0.050	ug/L	0.0090
Endosulfan I	ND	0.050	ug/L	0.020
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Endrin	ND	0.050	ug/L	0.020
Endrin aldehyde	ND	0.050	ug/L	0.014
Endrin ketone	ND	0.050	ug/L	0.0090
Heptachlor	ND	0.050	ug/L	0.010
Heptachlor epoxide	ND	0.050	ug/L	0.010
Isodrin	ND	0.10	ug/L	0.030
Kepone	ND	1.0	ug/L	0.36
Methoxychlor	ND	0.10	ug/L	0.020
Toxaphene	ND	5.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	68	(12 - 153)
Tetrachloro-m-xylene	78	(55 - 113)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-H

GC Semivolatiles

Lot-Sample #...: D4F160246-006 **Work Order #...:** GJERE1AP **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:45 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 07/09/04
Prep Batch #...: 4168385 **Analysis Time..:** 00:27
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.012
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.010
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0080
alpha-Chlordane	ND	0.050	ug/L	0.020
gamma-Chlordane	ND	0.050	ug/L	0.020
4,4'-DDD	ND	0.050	ug/L	0.010
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.015
Diallate	ND	1.0	ug/L	0.40
Dieldrin	ND	0.050	ug/L	0.0090
Endosulfan I	ND	0.050	ug/L	0.020
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Endrin	ND	0.050	ug/L	0.020
Endrin aldehyde	ND	0.050	ug/L	0.014
Endrin ketone	ND	0.050	ug/L	0.0090
Heptachlor	ND	0.050	ug/L	0.010
Heptachlor epoxide	ND	0.050	ug/L	0.010
Isodrin	ND	0.10	ug/L	0.030
Kepone	ND	1.0	ug/L	0.36
Methoxychlor	ND	0.10	ug/L	0.020
Toxaphene	ND	5.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	85	(12 - 153)
Tetrachloro-m-xylene	82	(55 - 113)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-T

GC Semivolatiles

Lot-Sample #...: D4F160246-007 **Work Order #...:** GJERG1AP **Matrix.....:** WATER
Date Sampled...: 06/15/04 13:00 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 07/09/04
Prep Batch #...: 4168385 **Analysis Time..:** 00:44
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.012
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.010
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0080
alpha-Chlordane	ND	0.050	ug/L	0.020
gamma-Chlordane	ND	0.050	ug/L	0.020
4,4'-DDD	ND	0.050	ug/L	0.010
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.015
Diallate	ND	1.0	ug/L	0.40
Dieldrin	ND	0.050	ug/L	0.0090
Endosulfan I	ND	0.050	ug/L	0.020
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Endrin	ND	0.050	ug/L	0.020
Endrin aldehyde	ND	0.050	ug/L	0.014
Endrin ketone	ND	0.050	ug/L	0.0090
Heptachlor	ND	0.050	ug/L	0.010
Heptachlor epoxide	ND	0.050	ug/L	0.010
Isodrin	ND	0.10	ug/L	0.030
Kepone	ND	1.0	ug/L	0.36
Methoxychlor	ND	0.10	ug/L	0.020
Toxaphene	ND	5.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	92	(12 - 153)
Tetrachloro-m-xylene	75	(55 - 113)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-C

GC Semivolatiles

Lot-Sample #...: D4F160246-008 **Work Order #...:** GJERH1AP **Matrix.....:** WATER
Date Sampled...: 06/15/04 14:30 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 07/09/04
Prep Batch #...: 4168385 **Analysis Time..:** 01:01
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.012
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.010
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0080
alpha-Chlordane	ND	0.050	ug/L	0.020
gamma-Chlordane	ND	0.050	ug/L	0.020
4,4'-DDD	ND	0.050	ug/L	0.010
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.015
Diallate	ND	1.0	ug/L	0.40
Dieldrin	ND	0.050	ug/L	0.0090
Endosulfan I	ND	0.050	ug/L	0.020
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Endrin	ND	0.050	ug/L	0.020
Endrin aldehyde	ND	0.050	ug/L	0.014
Endrin ketone	ND	0.050	ug/L	0.0090
Heptachlor	ND	0.050	ug/L	0.010
Heptachlor epoxide	ND	0.050	ug/L	0.010
Isodrin	ND	0.10	ug/L	0.030
Kepone	ND	1.0	ug/L	0.36
Methoxychlor	ND	0.10	ug/L	0.020
Toxaphene	ND	5.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	94	(12 - 153)
Tetrachloro-m-xylene	76	(55 - 113)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D

GC Semivolatiles

Lot-Sample #...: D4F170353-001 **Work Order #...:** GJH7K1AD **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 07/09/04
Prep Batch #...: 4170303 **Analysis Time..:** 08:44
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.012
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.010
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0080
alpha-Chlordane	ND	0.050	ug/L	0.020
gamma-Chlordane	ND	0.050	ug/L	0.020
4,4'-DDD	ND	0.050	ug/L	0.010
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.015
Diallate	ND	1.0	ug/L	0.40
Dieldrin	ND	0.050	ug/L	0.0090
Endosulfan I	ND	0.050	ug/L	0.020
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Endrin	ND	0.050	ug/L	0.020
Endrin aldehyde	ND	0.050	ug/L	0.014
Endrin ketone	ND	0.050	ug/L	0.0090
Heptachlor	ND	0.050	ug/L	0.010
Heptachlor epoxide	ND	0.050	ug/L	0.010
Isodrin	ND	0.10	ug/L	0.030
Kepone	ND	1.0	ug/L	0.36
Methoxychlor	ND	0.10	ug/L	0.020
Toxaphene	ND	5.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	91	(12 - 153)
Tetrachloro-m-xylene	90	(55 - 113)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-U

GC Semivolatiles

Lot-Sample #...: D4F170353-002 **Work Order #...:** GJH781AP **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:40 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 07/09/04
Prep Batch #...: 4170303 **Analysis Time..:** 10:09
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.012
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.010
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0080
alpha-Chlordane	ND	0.050	ug/L	0.020
gamma-Chlordane	ND	0.050	ug/L	0.020
4,4'-DDD	ND	0.050	ug/L	0.010
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.015
Diallate	ND	1.0	ug/L	0.40
Dieldrin	ND	0.050	ug/L	0.0090
Endosulfan I	ND	0.050	ug/L	0.020
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Endrin	ND	0.050	ug/L	0.020
Endrin aldehyde	ND	0.050	ug/L	0.014
Endrin ketone	ND	0.050	ug/L	0.0090
Hepta[illegible]or	ND	0.050	ug/L	0.010
Hepta[illegible]or epoxide	ND	0.050	ug/L	0.010
Isodri[illegible]	ND	0.10	ug/L	0.030
Kepone	ND	1.0	ug/L	0.36
Metho[illegible]chlor	ND	0.10	ug/L	0.020
Toxap[illegible]ne	ND	5.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	92	(12 - 153)
Tetrachloro-m-xylene	90	(55 - 113)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-E

GC Semivolatiles

Lot-Sample #...: D4F170353-003 **Work Order #...:** GJH8D1AP **Matrix.....:** WATER
Date Sampled...: 06/16/04 13:00 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 07/09/04
Prep Batch #...: 4170303 **Analysis Time..:** 10:37
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.012
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.010
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0080
alpha-Chlordane	ND	0.050	ug/L	0.020
gamma-Chlordane	ND	0.050	ug/L	0.020
4,4'-DDD	ND	0.050	ug/L	0.010
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.015
Diallate	ND	1.0	ug/L	0.40
Dieldrin	ND	0.050	ug/L	0.0090
Endosulfan I	ND	0.050	ug/L	0.020
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Endrin	ND	0.050	ug/L	0.020
Endrin aldehyde	ND	0.050	ug/L	0.014
Endrin ketone	ND	0.050	ug/L	0.0090
Heptachlor	ND	0.050	ug/L	0.010
Heptachlor epoxide	ND	0.050	ug/L	0.010
Isodrin	ND	0.10	ug/L	0.030
Kepone	ND	1.0	ug/L	0.36
Methoxychlor	ND	0.10	ug/L	0.020
Toxaphene	ND	5.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	94	(12 - 153)
Tetrachloro-m-xylene	91	(55 - 113)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-B

GC Semivolatiles

Lot-Sample #...: D4F170353-004 **Work Order #...:** GJH8F1AP **Matrix.....:** WATER
Date Sampled...: 06/16/04 08:30 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 07/09/04
Prep Batch #...: 4170303 **Analysis Time..:** 11:06
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.012
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.010
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0080
alpha-Chlordane	ND	0.050	ug/L	0.020
gamma-Chlordane	ND	0.050	ug/L	0.020
4,4'-DDD	ND	0.050	ug/L	0.010
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.015
Diallate	ND	1.0	ug/L	0.40
Dieldrin	ND	0.050	ug/L	0.0090
Endosulfan I	ND	0.050	ug/L	0.020
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Endrin	ND	0.050	ug/L	0.020
Endrin aldehyde	ND	0.050	ug/L	0.014
Endrin ketone	ND	0.050	ug/L	0.0090
Heptachlor	ND	0.050	ug/L	0.010
Heptachlor epoxide	ND	0.050	ug/L	0.010
Isodrin	ND	0.10	ug/L	0.030
Kepone	ND	1.0	ug/L	0.36
Methoxychlor	ND	0.10	ug/L	0.020
Toxaphene	ND	5.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	94	(12 - 153)
Tetrachloro-m-xylene	89	(55 - 113)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-A

GC Semivolatiles

Lot-Sample #...: D4F170353-005 **Work Order #...:** GJH8G1AP **Matrix.....:** WATER
Date Sampled...: 06/16/04 11:50 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 07/09/04
Prep Batch #...: 4170303 **Analysis Time..:** 11:34
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.012
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.010
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0080
alpha-Chlordane	ND	0.050	ug/L	0.020
gamma-Chlordane	ND	0.050	ug/L	0.020
4,4'-DDD	ND	0.050	ug/L	0.010
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.015
Diallate	ND	1.0	ug/L	0.40
Dieldrin	ND	0.050	ug/L	0.0090
Endosulfan I	ND	0.050	ug/L	0.020
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Endrin	ND	0.050	ug/L	0.020
Endrin aldehyde	ND	0.050	ug/L	0.014
Endrin ketone	ND	0.050	ug/L	0.0090
Heptachlor	ND	0.050	ug/L	0.010
Heptachlor epoxide	ND	0.050	ug/L	0.010
Isodrin	ND	0.10	ug/L	0.030
Kepone	ND	1.0	ug/L	0.36
Methoxychlor	ND	0.10	ug/L	0.020
Toxaphene	ND	5.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	90	(12 - 153)
Tetrachloro-m-xylene	96	(55 - 113)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D1

GC Semivolatiles

Lot-Sample #...: D4F170353-006 **Work Order #...:** GJH8H1AP **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:10 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 07/09/04
Prep Batch #...: 4170303 **Analysis Time..:** 13:56
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.012
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.010
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0080
alpha-Chlordane	ND	0.050	ug/L	0.020
gamma-Chlordane	ND	0.050	ug/L	0.020
4,4'-DDD	ND	0.050	ug/L	0.010
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.015
Diallate	ND	1.0	ug/L	0.40
Dieldrin	ND	0.050	ug/L	0.0090
Endosulfan I	ND	0.050	ug/L	0.020
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Endrin	ND	0.050	ug/L	0.020
Endrin aldehyde	ND	0.050	ug/L	0.014
Endrin ketone	ND	0.050	ug/L	0.0090
Heptachlor	ND	0.050	ug/L	0.010
Heptachlor epoxide	ND	0.050	ug/L	0.010
Isodrin	ND	0.10	ug/L	0.030
Kepone	ND	1.0	ug/L	0.36
Methoxychlor	ND	0.10	ug/L	0.020
Toxaphene	ND	5.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	94	(12 - 153)
Tetrachloro-m-xylene	93	(55 - 113)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-F

GC Semivolatiles

Lot-Sample #...: D4F170353-007 **Work Order #...:** GJH8M1AP **Matrix.....:** WATER
Date Sampled...: 06/16/04 11:55 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 07/09/04
Prep Batch #...: 4170303 **Analysis Time..:** 14:25
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.012
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.010
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0080
alpha-Chlordane	ND	0.050	ug/L	0.020
gamma-Chlordane	ND	0.050	ug/L	0.020
4,4'-DDD	ND	0.050	ug/L	0.010
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.015
Diallate	ND	1.0	ug/L	0.40
Dieldrin	ND	0.050	ug/L	0.0090
Endosulfan I	ND	0.050	ug/L	0.020
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Endrin	ND	0.050	ug/L	0.020
Endrin aldehyde	ND	0.050	ug/L	0.014
Endrin ketone	ND	0.050	ug/L	0.0090
Heptachlor	ND	0.050	ug/L	0.010
Heptachlor epoxide	ND	0.050	ug/L	0.010
Isodrin	ND	0.10	ug/L	0.030
Kepone	ND	1.0	ug/L	0.36
Methoxychlor	ND	0.10	ug/L	0.020
Toxaphene	ND	5.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	98	(12 - 153)
Tetrachloro-m-xylene	93	(55 - 113)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-V

GC Semivolatiles

Lot-Sample #...: D4F150189-001 **Work Order #...:** GJANT1AE **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:20 **Date Received..:** 06/15/04
Prep Date.....: 06/15/04 **Analysis Date..:** 07/03/04
Prep Batch #...: 4167450 **Analysis Time..:** 22:34
Dilution Factor: 1

Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.15
Aroclor 1221	ND	1.0	ug/L	0.25
Aroclor 1232	ND	1.0	ug/L	0.10
Aroclor 1242	ND	1.0	ug/L	0.10
Aroclor 1248	ND	1.0	ug/L	0.20
Aroclor 1254	ND	1.0	ug/L	0.20
Aroclor 1260	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(51 - 122)
Decachlorobiphenyl	86	(41 - 138)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-S

GC Semivolatiles

Lot-Sample #...: D4F150189-003 **Work Order #...:** GJAP91AQ **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:25 **Date Received..:** 06/15/04
Prep Date.....: 06/15/04 **Analysis Date..:** 07/03/04
Prep Batch #...: 4167450 **Analysis Time..:** 22:56
Dilution Factor: 1

Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.15
Aroclor 1221	ND	1.0	ug/L	0.25
Aroclor 1232	ND	1.0	ug/L	0.10
Aroclor 1242	ND	1.0	ug/L	0.10
Aroclor 1248	ND	1.0	ug/L	0.20
Aroclor 1254	ND	1.0	ug/L	0.20
Aroclor 1260	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	82	(51 - 122)
Decachlorobiphenyl	91	(41 - 138)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-W

GC Semivolatiles

Lot-Sample #...: D4F160246-001 **Work Order #...:** GJEQC1AE **Matrix.....:** WATER
Date Sampled...: 06/15/04 13:00 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 07/04/04
Prep Batch #...: 4168413 **Analysis Time..:** 05:12
Dilution Factor: 1

Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.15
Aroclor 1221	ND	1.0	ug/L	0.25
Aroclor 1232	ND	1.0	ug/L	0.10
Aroclor 1242	ND	1.0	ug/L	0.10
Aroclor 1248	ND	1.0	ug/L	0.20
Aroclor 1254	ND	1.0	ug/L	0.20
Aroclor 1260	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	76	(51 - 122)
Decachlorobiphenyl	66	(41 - 138)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-XX

GC Semivolatiles

Lot-Sample #...: D4F160246-002 **Work Order #...:** GJEQW1AQ **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:30 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 07/04/04
Prep Batch #...: 4168413 **Analysis Time..:** 05:35
Dilution Factor: 1

Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.15
Aroclor 1221	ND	1.0	ug/L	0.25
Aroclor 1232	ND	1.0	ug/L	0.10
Aroclor 1242	ND	1.0	ug/L	0.10
Aroclor 1248	ND	1.0	ug/L	0.20
Aroclor 1254	ND	1.0	ug/L	0.20
Aroclor 1260	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	71	(51 - 122)
Decachlorobiphenyl	77	(41 - 138)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X

GC Semivolatiles

Lot-Sample #...: D4F160246-003 **Work Order #...:** GJEQ31AQ **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:15 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 07/04/04
Prep Batch #...: 4168413 **Analysis Time..:** 05:57
Dilution Factor: 1

Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.15
Aroclor 1221	ND	1.0	ug/L	0.25
Aroclor 1232	ND	1.0	ug/L	0.10
Aroclor 1242	ND	1.0	ug/L	0.10
Aroclor 1248	ND	1.0	ug/L	0.20
Aroclor 1254	ND	1.0	ug/L	0.20
Aroclor 1260	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	76	(51 - 122)
Decachlorobiphenyl	83	(41 - 138)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-G

GC Semivolatiles

Lot-Sample #...: D4F160246-004 **Work Order #...:** GJEQ51AQ **Matrix.....:** WATER
Date Sampled...: 06/15/04 11:20 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 07/04/04
Prep Batch #...: 4168413 **Analysis Time..:** 06:19
Dilution Factor: 1

Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.15
Aroclor 1221	ND	1.0	ug/L	0.25
Aroclor 1232	ND	1.0	ug/L	0.10
Aroclor 1242	ND	1.0	ug/L	0.10
Aroclor 1248	ND	1.0	ug/L	0.20
Aroclor 1254	ND	1.0	ug/L	0.20
Aroclor 1260	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	76	(51 - 122)
Decachlorobiphenyl	79	(41 - 138)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X-EB

GC Semivolatiles

Lot-Sample #...: D4F160246-005 **Work Order #...:** GJERC1AQ **Matrix.....:** WATER
Date Sampled...: 06/15/04 10:00 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 07/04/04
Prep Batch #...: 4168413 **Analysis Time..:** 06:41
Dilution Factor: 1

Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.15
Aroclor 1221	ND	1.0	ug/L	0.25
Aroclor 1232	ND	1.0	ug/L	0.10
Aroclor 1242	ND	1.0	ug/L	0.10
Aroclor 1248	ND	1.0	ug/L	0.20
Aroclor 1254	ND	1.0	ug/L	0.20
Aroclor 1260	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	79	(51 - 122)
Decachlorobiphenyl	64	(41 - 138)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-H

GC Semivolatiles

Lot-Sample #...: D4F160246-006 **Work Order #...:** GJERE1AQ **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:45 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 07/04/04
Prep Batch #...: 4168413 **Analysis Time..:** 07:03
Dilution Factor: 1

Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.15
Aroclor 1221	ND	1.0	ug/L	0.25
Aroclor 1232	ND	1.0	ug/L	0.10
Aroclor 1242	ND	1.0	ug/L	0.10
Aroclor 1248	ND	1.0	ug/L	0.20
Aroclor 1254	ND	1.0	ug/L	0.20
Aroclor 1260	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	81	(51 - 122)
Decachlorobiphenyl	87	(41 - 138)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-T

GC Semivolatiles

Lot-Sample #...: D4F160246-007 **Work Order #...:** GJERG1AQ **Matrix.....:** WATER
Date Sampled...: 06/15/04 13:00 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 07/04/04
Prep Batch #...: 4168413 **Analysis Time..:** 07:47
Dilution Factor: 1

Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.15
Aroclor 1221	ND	1.0	ug/L	0.25
Aroclor 1232	ND	1.0	ug/L	0.10
Aroclor 1242	ND	1.0	ug/L	0.10
Aroclor 1248	ND	1.0	ug/L	0.20
Aroclor 1254	ND	1.0	ug/L	0.20
Aroclor 1260	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	70	(51 - 122)
Decachlorobiphenyl	87	(41 - 138)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-C

GC Semivolatiles

Lot-Sample #...: D4F160246-008 **Work Order #...:** GJERH1AQ **Matrix.....:** WATER
Date Sampled...: 06/15/04 14:30 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 07/04/04
Prep Batch #...: 4168413 **Analysis Time..:** 08:09
Dilution Factor: 1

Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.15
Aroclor 1221	ND	1.0	ug/L	0.25
Aroclor 1232	ND	1.0	ug/L	0.10
Aroclor 1242	ND	1.0	ug/L	0.10
Aroclor 1248	ND	1.0	ug/L	0.20
Aroclor 1254	ND	1.0	ug/L	0.20
Aroclor 1260	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	72	(51 - 122)
Decachlorobiphenyl	90	(41 - 138)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D

GC Semivolatiles

Lot-Sample #...: D4F170353-001 **Work Order #...:** GJH7K1AE **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4170320 **Analysis Time..:** 17:09
Dilution Factor: 1

Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.15
Aroclor 1221	ND	1.0	ug/L	0.25
Aroclor 1232	ND	1.0	ug/L	0.10
Aroclor 1242	ND	1.0	ug/L	0.10
Aroclor 1248	ND	1.0	ug/L	0.20
Aroclor 1254	ND	1.0	ug/L	0.20
Aroclor 1260	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	81	(51 - 122)
Decachlorobiphenyl	82	(41 - 138)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-U

GC Semivolatiles

Lot-Sample #...: D4F170353-002 **Work Order #...:** GJH781AQ **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:40 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4170320 **Analysis Time..:** 18:38
Dilution Factor: 1

Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.15
Aroclor 1221	ND	1.0	ug/L	0.25
Aroclor 1232	ND	1.0	ug/L	0.10
Aroclor 1242	ND	1.0	ug/L	0.10
Aroclor 1248	ND	1.0	ug/L	0.20
Aroclor 1254	ND	1.0	ug/L	0.20
Aroclor 1260	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(51 - 122)
Decachlorobiphenyl	84	(41 - 138)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-E

GC Semivolatiles

Lot-Sample #...: D4F170353-003 **Work Order #...:** GJH8D1AQ **Matrix.....:** WATER
Date Sampled...: 06/16/04 13:00 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4170320 **Analysis Time..:** 19:00
Dilution Factor: 1

Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.15
Aroclor 1221	ND	1.0	ug/L	0.25
Aroclor 1232	ND	1.0	ug/L	0.10
Aroclor 1242	ND	1.0	ug/L	0.10
Aroclor 1248	ND	1.0	ug/L	0.20
Aroclor 1254	ND	1.0	ug/L	0.20
Aroclor 1260	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	76	(51 - 122)
Decachlorobiphenyl	87	(41 - 138)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-B

GC Semivolatiles

Lot-Sample #...: D4F170353-004 **Work Order #...:** GJH8F1AQ **Matrix.....:** WATER
Date Sampled...: 06/16/04 08:30 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4170320 **Analysis Time..:** 19:23
Dilution Factor: 1

Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.15
Aroclor 1221	ND	1.0	ug/L	0.25
Aroclor 1232	ND	1.0	ug/L	0.10
Aroclor 1242	ND	1.0	ug/L	0.10
Aroclor 1248	ND	1.0	ug/L	0.20
Aroclor 1254	ND	1.0	ug/L	0.20
Aroclor 1260	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(51 - 122)
Decachlorobiphenyl	85	(41 - 138)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-A

GC Semivolatiles

Lot-Sample #...: D4F170353-005 **Work Order #...:** GJH8G1AQ **Matrix.....:** WATER
Date Sampled...: 06/16/04 11:50 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4170320 **Analysis Time..:** 19:45
Dilution Factor: 1

Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.15
Aroclor 1221	ND	1.0	ug/L	0.25
Aroclor 1232	ND	1.0	ug/L	0.10
Aroclor 1242	ND	1.0	ug/L	0.10
Aroclor 1248	ND	1.0	ug/L	0.20
Aroclor 1254	ND	1.0	ug/L	0.20
Aroclor 1260	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	77	(51 - 122)
Decachlorobiphenyl	82	(41 - 138)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D1

GC Semivolatiles

Lot-Sample #...: D4F170353-006 **Work Order #...:** GJH8H1AQ **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:10 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4170320 **Analysis Time..:** 20:07
Dilution Factor: 1

Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.15
Aroclor 1221	ND	1.0	ug/L	0.25
Aroclor 1232	ND	1.0	ug/L	0.10
Aroclor 1242	ND	1.0	ug/L	0.10
Aroclor 1248	ND	1.0	ug/L	0.20
Aroclor 1254	ND	1.0	ug/L	0.20
Aroclor 1260	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(51 - 122)
Decachlorobiphenyl	83	(41 - 138)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-F

GC Semivolatiles

Lot-Sample #...: D4F170353-007 **Work Order #...:** GJH8M1AQ **Matrix.....:** WATER
Date Sampled...: 06/16/04 11:55 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4170320 **Analysis Time..:** 20:30
Dilution Factor: 1

Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.15
Aroclor 1221	ND	1.0	ug/L	0.25
Aroclor 1232	ND	1.0	ug/L	0.10
Aroclor 1242	ND	1.0	ug/L	0.10
Aroclor 1248	ND	1.0	ug/L	0.20
Aroclor 1254	ND	1.0	ug/L	0.20
Aroclor 1260	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	84	(51 - 122)
Decachlorobiphenyl	86	(41 - 138)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-V

GC Semivolatiles

Lot-Sample #...: D4F150189-001 **Work Order #...:** GJANT1AF **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:20 **Date Received..:** 06/15/04
Prep Date.....: 06/15/04 **Analysis Date..:** 07/01/04
Prep Batch #...: 4167559 **Analysis Time..:** 08:36
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	4.0	ug/L	0.26
Dinoseb	ND	0.60	ug/L	0.13
2,4,5-TP (Silvex)	ND	1.0	ug/L	0.10
2,4,5-T	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	97	(39 - 135)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-S

GC Semivolatiles

Lot-Sample #...: D4F150189-003 **Work Order #...:** GJAP91AR **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:25 **Date Received..:** 06/15/04
Prep Date.....: 06/15/04 **Analysis Date..:** 07/01/04
Prep Batch #...: 4167559 **Analysis Time..:** 09:18
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	4.0	ug/L	0.26
Dinoseb	ND	0.60	ug/L	0.13
2,4,5-TP (Silvex)	ND	1.0	ug/L	0.10
2,4,5-T	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	89	(39 - 135)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-W

GC Semivolatiles

Lot-Sample #...: D4F160246-001 **Work Order #...:** GJEQC1AF **Matrix.....:** WATER
Date Sampled...: 06/15/04 13:00 **Date Received..:** 06/16/04
Prep Date.....: 06/17/04 **Analysis Date..:** 06/24/04
Prep Batch #...: 4169456 **Analysis Time..:** 07:27
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	4.0	ug/L	0.26
Dinoseb	ND	0.60	ug/L	0.13
2,4,5-TP (Silvex)	ND	1.0	ug/L	0.10
2,4,5-T	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	88	(39 - 135)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-XX

GC Semivolatiles

Lot-Sample #...: D4F160246-002 **Work Order #...:** GJEQW1AR **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:30 **Date Received..:** 06/16/04
Prep Date.....: 06/17/04 **Analysis Date..:** 06/24/04
Prep Batch #...: 4169456 **Analysis Time..:** 08:08
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	4.0	ug/L	0.26
Dinoseb	ND	0.60	ug/L	0.13
2,4,5-TP (Silvex)	ND	1.0	ug/L	0.10
2,4,5-T	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	108	(39 - 135)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X

GC Semivolatiles

Lot-Sample #...: D4F160246-003 **Work Order #...:** GJEQ31AR **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:15 **Date Received..:** 06/16/04
Prep Date.....: 06/17/04 **Analysis Date..:** 06/24/04
Prep Batch #...: 4169456 **Analysis Time..:** 08:49
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	4.0	ug/L	0.26
Dinoseb	ND	0.60	ug/L	0.13
2,4,5-TP (Silvex)	ND	1.0	ug/L	0.10
2,4,5-T	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	103	(39 - 135)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-G

GC Semivolatiles

Lot-Sample #...: D4F160246-004 **Work Order #...:** GJEQ51AR **Matrix.....:** WATER
Date Sampled...: 06/15/04 11:20 **Date Received..:** 06/16/04
Prep Date.....: 06/17/04 **Analysis Date..:** 06/24/04
Prep Batch #...: 4169456 **Analysis Time..:** 09:30
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	4.0	ug/L	0.26
Dinoseb	ND	0.60	ug/L	0.13
2,4,5-TP (Silvex)	ND	1.0	ug/L	0.10
2,4,5-T	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	99	(39 - 135)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X-EB

GC Semivolatiles

Lot-Sample #...: D4F160246-005 **Work Order #...:** GJERC1AR **Matrix.....:** WATER
Date Sampled...: 06/15/04 10:00 **Date Received..:** 06/16/04
Prep Date.....: 06/17/04 **Analysis Date..:** 06/24/04
Prep Batch #...: 4169456 **Analysis Time..:** 10:11
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	4.0	ug/L	0.26
Dinoseb	ND	0.60	ug/L	0.13
2,4,5-TP (Silvex)	ND	1.0	ug/L	0.10
2,4,5-T	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	103	(39 - 135)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-H

GC Semivolatiles

Lot-Sample #...: D4F160246-006 **Work Order #...:** GJERE1AR **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:45 **Date Received..:** 06/16/04
Prep Date.....: 06/17/04 **Analysis Date..:** 06/24/04
Prep Batch #...: 4169456 **Analysis Time..:** 10:53
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	4.0	ug/L	0.26
Dinoseb	ND	0.60	ug/L	0.13
2,4,5-TP (Silvex)	ND	1.0	ug/L	0.10
2,4,5-T	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	99	(39 - 135)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-T

GC Semivolatiles

Lot-Sample #...: D4F160246-007 **Work Order #...:** GJERG1AR **Matrix.....:** WATER
Date Sampled...: 06/15/04 13:00 **Date Received..:** 06/16/04
Prep Date.....: 06/17/04 **Analysis Date..:** 06/24/04
Prep Batch #...: 4169456 **Analysis Time..:** 11:34
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	4.0	ug/L	0.26
Dinoseb	ND	0.60	ug/L	0.13
2,4,5-TP (Silvex)	ND	1.0	ug/L	0.10
2,4,5-T	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	101	(39 - 135)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-C

GC Semivolatiles

Lot-Sample #...: D4F160246-008 **Work Order #...:** GJERH1AR **Matrix.....:** WATER
Date Sampled...: 06/15/04 14:30 **Date Received..:** 06/16/04
Prep Date.....: 06/17/04 **Analysis Date..:** 06/24/04
Prep Batch #...: 4169456 **Analysis Time..:** 12:15
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	4.0	ug/L	0.26
Dinoseb	ND	0.60	ug/L	0.13
2,4,5-TP (Silvex)	ND	1.0	ug/L	0.10
2,4,5-T	ND	1.0	ug/L	0.10

SURROGA	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	94	(39 - 135)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D

GC Semivolatiles

Lot-Sample #...: D4F170353-001 **Work Order #...:** GJH7K1AF **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 07/01/04
Prep Batch #...: 4170441 **Analysis Time..:** 21:12
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	4.0	ug/L	0.26
Dinoseb	ND	0.60	ug/L	0.13
2,4,5-TP (Silvex)	ND	1.0	ug/L	0.10
2,4,5-T	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	74	(39 - 135)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-U

GC Semivolatiles

Lot-Sample #...: D4F170353-002 Work Order #...: GJH781AR Matrix.....: WATER
Date Sampled...: 06/16/04 09:40 Date Received..: 06/17/04
Prep Date.....: 06/18/04 Analysis Date..: 07/01/04
Prep Batch #...: 4170441 Analysis Time..: 23:58
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	4.0	ug/L	0.26
Dinoseb	ND	0.60	ug/L	0.13
2,4,5-TP (Silvex)	ND	1.0	ug/L	0.10
2,4,5-T	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	84	(39 - 135)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-E

GC Semivolatiles

Lot-Sample #...: D4F170353-003 **Work Order #...:** GJH8D1AR **Matrix.....:** WATER
Date Sampled...: 06/16/04 13:00 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 07/02/04
Prep Batch #...: 4170441 **Analysis Time..:** 00:40
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	4.0	ug/L	0.26
Dinoseb	ND	0.60	ug/L	0.13
2,4,5-TP (Silvex)	ND	1.0	ug/L	0.10
2,4,5-T	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	87	(39 - 135)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-B

GC Semivolatiles

Lot-Sample #...: D4F170353-004 **Work Order #...:** GJH8F1AR **Matrix.....:** WATER
Date Sampled...: 06/16/04 08:30 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 07/02/04
Prep Batch #...: 4170441 **Analysis Time..:** 01:21
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	4.0	ug/L	0.26
Dinoseb	ND	0.60	ug/L	0.13
2,4,5-TP (Silvex)	ND	1.0	ug/L	0.10
2,4,5-T	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	86	(39 - 135)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-A

GC Semivolatiles

Lot-Sample #...: D4F170353-005 **Work Order #...:** GJH8G1AR **Matrix.....:** WATER
Date Sampled...: 06/16/04 11:50 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 07/02/04
Prep Batch #...: 4170441 **Analysis Time..:** 02:03
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	4.0	ug/L	0.26
Dinoseb	ND	0.60	ug/L	0.13
2,4,5-TP (Silvex)	ND	1.0	ug/L	0.10
2,4,5-T	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	85	(39 - 135)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D1

GC Semivolatiles

Lot-Sample #...: D4F170353-006 **Work Order #...:** GJH8H1AR **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:10 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 07/02/04
Prep Batch #...: 4170441 **Analysis Time..:** 02:45
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	4.0	ug/L	0.26
Dinoseb	ND	0.60	ug/L	0.13
2,4,5-TP (Silvex)	ND	1.0	ug/L	0.10
2,4,5-T	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	93	(39 - 135)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-F

GC Semivolatiles

Lot-Sample #...: D4F170353-007 **Work Order #...:** GJH8M1AR **Matrix.....:** WATER
Date Sampled...: 06/16/04 11:55 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 07/02/04
Prep Batch #...: 4170441 **Analysis Time..:** 03:27
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	4.0	ug/L	0.26
Dinoseb	ND	0.60	ug/L	0.13
2,4,5-TP (Silvex)	ND	1.0	ug/L	0.10
2,4,5-T	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	84	(39 - 135)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-V

Trace Level Organic Compounds

Lot-Sample #...: D4F150189-001 **Work Order #...:** GJANT1AQ **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:20 **Date Received..:** 06/15/04
Prep Date.....: 06/21/04 **Analysis Date..:** 06/23/04
Prep Batch #...: 4173377 **Analysis Time..:** 12:59
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Total HxCDD	ND	0.22	ng/L	SW846 8280A
Total HxCDF	ND	0.24	ng/L	SW846 8280A
Total PeCDD	ND	1.7	ng/L	SW846 8280A
Total PeCDF	ND	0.21	ng/L	SW846 8280A
2,3,7,8-TCDD	ND	0.11	ng/L	SW846 8280A
Total TCDD	ND	0.11	ng/L	SW846 8280A
Total TCDF	ND	0.12	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	75	(25 - 150)
13C-2,3,7,8-TCDF	75	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	76	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	88	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	95	(25 - 150)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-S

Trace Level Organic Compounds

Lot-Sample #...: D4F150189-003 **Work Order #...:** GJAP91A3 **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:25 **Date Received..:** 06/15/04
Prep Date.....: 06/21/04 **Analysis Date..:** 06/23/04
Prep Batch #...: 4173377 **Analysis Time..:** 13:48
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Total HxCDD	ND	0.089	ng/L	SW846 8280A
Total HxCDF	ND	0.17	ng/L	SW846 8280A
Total PeCDD	ND	1.5	ng/L	SW846 8280A
Total PeCDF	ND	0.13	ng/L	SW846 8280A
2,3,7,8-TCDD	ND	0.068	ng/L	SW846 8280A
Total TCDD	ND	0.068	ng/L	SW846 8280A
Total TCDF	ND	0.062	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	75	(25 - 150)
13C-2,3,7,8-TCDF	75	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	79	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	84	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	91	(25 - 150)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-W

Trace Level Organic Compounds

Lot-Sample #...: D4F160246-001 **Work Order #...:** GJEQC1AQ **Matrix.....:** WATER
Date Sampled...: 06/15/04 13:00 **Date Received..:** 06/16/04
Prep Date.....: 06/22/04 **Analysis Date..:** 06/25/04
Prep Batch #...: 4174488 **Analysis Time..:** 04:40
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Total HxCDD	ND	0.040	ng/L	SW846 8280A
Total HxCDF	ND	0.12	ng/L	SW846 8280A
Total PeCDD	ND	1.7	ng/L	SW846 8280A
Total PeCDF	ND	0.096	ng/L	SW846 8280A
2,3,7,8-TCDD	ND	0.042	ng/L	SW846 8280A
Total TCDD	ND	0.042	ng/L	SW846 8280A
Total TCDF	ND	0.12	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	83	(25 - 150)
13C-2,3,7,8-TCDF	84	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	76	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	97	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	94	(25 - 150)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-XX

Trace Level Organic Compounds

Lot-Sample #...: D4F160246-002 **Work Order #...:** GJEQW1A3 **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:30 **Date Received..:** 06/16/04
Prep Date.....: 06/22/04 **Analysis Date..:** 06/25/04
Prep Batch #...: 4174488 **Analysis Time..:** 05:28
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Total HxCDD	ND	0.075	ng/L	SW846 8280A
Total HxCDF	ND	0.22	ng/L	SW846 8280A
Total PeCDD	ND	1.6	ng/L	SW846 8280A
Total PeCDF	ND	0.12	ng/L	SW846 8280A
2,3,7,8-TCDD	ND	0.072	ng/L	SW846 8280A
Total TCDD	ND	0.072	ng/L	SW846 8280A
Total TCDF	ND	0.090	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	84	(25 - 150)
13C-2,3,7,8-TCDF	84	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	75	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	94	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	94	(25 - 150)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X

Trace Level Organic Compounds

Lot-Sample #...: D4F160246-003 **Work Order #...:** GJEQ31A3 **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:15 **Date Received..:** 06/16/04
Prep Date.....: 06/22/04 **Analysis Date..:** 06/25/04
Prep Batch #...: 4174488 **Analysis Time..:** 06:16
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Total HxCDD	ND	0.098	ng/L	SW846 8280A
Total HxCDF	ND	0.22	ng/L	SW846 8280A
Total PeCDD	ND	1.6	ng/L	SW846 8280A
Total PeCDF	ND	0.16	ng/L	SW846 8280A
2,3,7,8-TCDD	ND	0.10	ng/L	SW846 8280A
Total TCDD	ND	0.10	ng/L	SW846 8280A
Total TCDF	ND	0.12	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	80	(25 - 150)
13C-2,3,7,8-TCDF	79	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	77	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	97	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	96	(25 - 150)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-G

Trace Level Organic Compounds

Lot-Sample #...: D4F160246-004 **Work Order #...:** GJEQ51A3 **Matrix.....:** WATER
Date Sampled...: 06/15/04 11:20 **Date Received..:** 06/16/04
Prep Date.....: 06/22/04 **Analysis Date..:** 06/25/04
Prep Batch #...: 4174488 **Analysis Time..:** 07:04
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Total HxCDD	ND	5.1	ng/L	SW846 8280A
Total HxCDF	ND	4.4	ng/L	SW846 8280A
Total PeCDD	ND	3.8	ng/L	SW846 8280A
Total PeCDF	ND	3.3	ng/L	SW846 8280A
2,3,7,8-TCDD	ND	0.96	ng/L	SW846 8280A
Total TCDD	ND	0.96	ng/L	SW846 8280A
Total TCDF	ND	0.46	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	87	(25 - 150)
13C-2,3,7,8-TCDF	83	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	91	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	114	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	94	(25 - 150)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X-EB

Trace Level Organic Compounds

Lot-Sample #...: D4F160246-005 **Work Order #...:** GJERC1A3 **Matrix.....:** WATER
Date Sampled...: 06/15/04 10:00 **Date Received..:** 06/16/04
Prep Date.....: 06/22/04 **Analysis Date..:** 06/25/04
Prep Batch #...: 4174488 **Analysis Time..:** 07:52
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Total HxCDD	ND	0.12	ng/L	SW846 8280A
Total HxCDF	ND	0.29	ng/L	SW846 8280A
Total PeCDD	ND	1.8	ng/L	SW846 8280A
Total PeCDF	ND	0.14	ng/L	SW846 8280A
2,3,7,8-TCDD	ND	0.11	ng/L	SW846 8280A
Total TCDD	ND	0.11	ng/L	SW846 8280A
Total TCDF	ND	0.092	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	80	(25 - 150)
13C-2,3,7,8-TCDF	80	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	78	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	96	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	94	(25 - 150)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-H

Trace Level Organic Compounds

Lot-Sample #...: D4F160246-006 **Work Order #...:** GJERE1A3 **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:45 **Date Received..:** 06/16/04
Prep Date.....: 06/22/04 **Analysis Date..:** 06/25/04
Prep Batch #...: 4174488 **Analysis Time..:** 08:40
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Total HxCDD	ND	0.094	ng/L	SW846 8280A
Total HxCDF	ND	0.18	ng/L	SW846 8280A
Total PeCDD	ND	1.7	ng/L	SW846 8280A
Total PeCDF	ND	0.15	ng/L	SW846 8280A
2,3,7,8-TCDD	ND	0.085	ng/L	SW846 8280A
Total TCDD	ND	0.085	ng/L	SW846 8280A
Total TCDF	ND	0.049	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	88	(25 - 150)
13C-2,3,7,8-TCDF	84	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	85	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	104	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	94	(25 - 150)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-T

Trace Level Organic Compounds

Lot-Sample #...: D4F160246-007 **Work Order #...:** GJERG1A3 **Matrix.....:** WATER
Date Sampled...: 06/15/04 13:00 **Date Received..:** 06/16/04
Prep Date.....: 06/22/04 **Analysis Date..:** 06/25/04
Prep Batch #...: 4174488 **Analysis Time..:** 09:28
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Total HxCDD	ND	0.22	ng/L	SW846 8280A
Total HxCDF	ND	0.28	ng/L	SW846 8280A
Total PeCDD	ND	1.6	ng/L	SW846 8280A
Total PeCDF	ND	0.19	ng/L	SW846 8280A
2,3,7,8-TCDD	ND	0.11	ng/L	SW846 8280A
Total TCDD	ND	0.11	ng/L	SW846 8280A
Total TCDF	ND	0.13	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	72	(25 - 150)
13C-2,3,7,8-TCDF	71	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	67	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	84	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	94	(25 - 150)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-C

Trace Level Organic Compounds

Lot-Sample #...: D4F160246-008 **Work Order #...:** GJERH1A3 **Matrix.....:** WATER
Date Sampled...: 06/15/04 14:30 **Date Received..:** 06/16/04
Prep Date.....: 06/22/04 **Analysis Date..:** 06/25/04
Prep Batch #...: 4174488 **Analysis Time..:** 11:04
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Total HxCDD	ND	0.088	ng/L	SW846 8280A
Total HxCDF	ND	0.17	ng/L	SW846 8280A
Total PeCDD	ND	1.8	ng/L	SW846 8280A
Total PeCDF	ND	0.14	ng/L	SW846 8280A
2,3,7,8-TCDD	ND	0.080	ng/L	SW846 8280A
Total TCDD	ND	0.080	ng/L	SW846 8280A
Total TCDF	ND	0.068	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	86	(25 - 150)
13C-2,3,7,8-TCDF	85	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	85	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	105	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	95	(25 - 150)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D

Trace Level Organic Compounds

Lot-Sample #...: D4F170353-001 **Work Order #...:** GJH7K1AQ **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04
Prep Date.....: 06/21/04 **Analysis Date..:** 06/23/04
Prep Batch #...: 4173377 **Analysis Time..:** 15:17
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Total HxCDD	ND	0.11	ng/L	SW846 8280A
Total HxCDF	ND	0.17	ng/L	SW846 8280A
Total PeCDD	ND	1.6	ng/L	SW846 8280A
Total PeCDF	ND	0.14	ng/L	SW846 8280A
2,3,7,8-TCDD	ND	0.084	ng/L	SW846 8280A
Total TCDD	ND	0.084	ng/L	SW846 8280A
Total TCDF	ND	0.071	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	82	(25 - 150)
13C-2,3,7,8-TCDF	79	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	85	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	92	(25 - 150)
13C-OCDD	99	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	91	(25 - 150)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-U

Trace Level Organic Compounds

Lot-Sample #...: D4F170353-002 **Work Order #...:** GJH781A3 **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:40 **Date Received..:** 06/17/04
Prep Date.....: 06/21/04 **Analysis Date..:** 06/23/04
Prep Batch #...: 4173377 **Analysis Time..:** 17:41
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Total HxCDD	ND	0.097	ng/L	SW846 8280A
Total HxCDF	ND	0.11	ng/L	SW846 8280A
Total PeCDD	ND	1.6	ng/L	SW846 8280A
Total PeCDF	ND	0.12	ng/L	SW846 8280A
2,3,7,8-TCDD	ND	0.053	ng/L	SW846 8280A
Total TCDD	ND	0.053	ng/L	SW846 8280A
Total TCDF	ND	0.042	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	79	(25 - 150)
13C-2,3,7,8-TCDF	75	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	81	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	86	(25 - 150)
13C-OCDD	92	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	92	(25 - 150)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-E

Trace Level Organic Compounds

Lot-Sample #...: D4F170353-003 **Work Order #...:** GJH8D1A3 **Matrix.....:** WATER
Date Sampled...: 06/16/04 13:00 **Date Received..:** 06/17/04
Prep Date.....: 06/21/04 **Analysis Date..:** 06/23/04
Prep Batch #...: 4173377 **Analysis Time..:** 18:29
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Total HxCDD	ND	0.16	ng/L	SW846 8280A
Total HxCDF	ND	0.19	ng/L	SW846 8280A
Total PeCDD	ND	1.8	ng/L	SW846 8280A
Total PeCDF	ND	0.17	ng/L	SW846 8280A
2,3,7,8-TCDD	ND	0.080	ng/L	SW846 8280A
Total TCDD	ND	0.080	ng/L	SW846 8280A
Total TCDF	ND	0.098	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	79	(25 - 150)
13C-2,3,7,8-TCDF	78	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	80	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	84	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	93	(25 - 150)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-B

Trace Level Organic Compounds

Lot-Sample #...: D4F170353-004 **Work Order #...:** GJH8F1A3 **Matrix.....:** WATER
Date Sampled...: 06/16/04 08:30 **Date Received..:** 06/17/04
Prep Date.....: 06/21/04 **Analysis Date..:** 06/23/04
Prep Batch #...: 4173377 **Analysis Time..:** 19:17
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Total HxCDD	ND	0.14	ng/L	SW846 8280A
Total HxCDF	ND	0.19	ng/L	SW846 8280A
Total PeCDD	ND	1.5	ng/L	SW846 8280A
Total PeCDF	ND	0.14	ng/L	SW846 8280A
2,3,7,8-TCDD	ND	0.082	ng/L	SW846 8280A
Total TCDD	ND	0.082	ng/L	SW846 8280A
Total TCDF	ND	0.10	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	75	(25 - 150)
13C-2,3,7,8-TCDF	74	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	80	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	82	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	89	(25 - 150)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-A

Trace Level Organic Compounds

Lot-Sample #...: D4F170353-005 **Work Order #...:** GJH8G1A3 **Matrix.....:** WATER
Date Sampled...: 06/16/04 11:50 **Date Received..:** 06/17/04
Prep Date.....: 06/21/04 **Analysis Date..:** 06/23/04
Prep Batch #...: 4173377 **Analysis Time..:** 20:05
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Total HxCDD	ND	0.083	ng/L	SW846 8280A
Total HxCDF	ND	0.11	ng/L	SW846 8280A
Total PeCDD	ND	1.7	ng/L	SW846 8280A
Total PeCDF	ND	0.10	ng/L	SW846 8280A
2,3,7,8-TCDD	ND	0.040	ng/L	SW846 8280A
Total TCDD	ND	0.040	ng/L	SW846 8280A
Total TCDF	ND	0.025	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	86	(25 - 150)
13C-2,3,7,8-TCDF	85	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	88	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	92	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	97	(25 - 150)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D1

Trace Level Organic Compounds

Lot-Sample #...: D4F170353-006 **Work Order #...:** GJH8H1A3 **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:10 **Date Received..:** 06/17/04
Prep Date.....: 06/21/04 **Analysis Date..:** 06/23/04
Prep Batch #...: 4173377 **Analysis Time..:** 20:53
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Total HxCDD	ND	0.13	ng/L	SW846 8280A
Total HxCDF	ND	0.18	ng/L	SW846 8280A
Total PeCDD	ND	2.0	ng/L	SW846 8280A
Total PeCDF	ND	0.17	ng/L	SW846 8280A
2,3,7,8-TCDD	ND	0.072	ng/L	SW846 8280A
Total TCDD	ND	0.072	ng/L	SW846 8280A
Total TCDF	ND	0.092	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	65	(25 - 150)
13C-2,3,7,8-TCDF	66	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	67	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	72	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	95	(25 - 150)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-F

Trace Level Organic Compounds

Lot-Sample #...: D4F170353-007 **Work Order #...:** GJH8M1A3 **Matrix.....:** WATER
Date Sampled...: 06/16/04 11:55 **Date Received..:** 06/17/04
Prep Date.....: 06/21/04 **Analysis Date..:** 06/23/04
Prep Batch #...: 4173377 **Analysis Time..:** 21:41
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Total HxCDD	ND	0.14	ng/L	SW846 8280A
Total HxCDF	ND	0.16	ng/L	SW846 8280A
Total PeCDD	ND	1.7	ng/L	SW846 8280A
Total PeCDF	ND	0.24	ng/L	SW846 8280A
2,3,7,8-TCDD	ND	0.071	ng/L	SW846 8280A
Total TCDD	ND	0.071	ng/L	SW846 8280A
Total TCDF	ND	0.080	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	74	(25 - 150)
13C-2,3,7,8-TCDF	74	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	81	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	88	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	88	(25 - 150)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-V

HPLC

Lot-Sample #...: D4F150189-001 **Work Order #...:** GJANT1AG **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:20 **Date Received..:** 06/15/04
Prep Date.....: 06/15/04 **Analysis Date..:** 06/25/04
Prep Batch #...: 4167463 **Analysis Time..:** 20:22
Dilution Factor: 1

Method.....: SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	1.0	ug/L	0.077
Acenaphthylene	ND	1.0	ug/L	0.039
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.048
Benzo(b)fluoranthene	ND	0.10	ug/L	0.030
Benzo(k)fluoranthene	ND	0.10	ug/L	0.031
Benzo(ghi)perylene	ND	0.20	ug/L	0.072
Benzo(a)pyrene	ND	0.10	ug/L	0.036
Chrysene	ND	0.20	ug/L	0.054
Dibenzo(a,h)anthracene	ND	0.20	ug/L	0.088
Fluoranthene	ND	0.20	ug/L	0.13
Fluorene	ND	0.20	ug/L	0.044
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.048
2-Methylnaphthalene	ND	1.0	ug/L	0.13
1-Methylnaphthalene	ND	1.0	ug/L	0.11
Naphthalene	ND	1.0	ug/L	0.085
Phenanthrene	ND	0.20	ug/L	0.099
Pyrene	ND	0.20	ug/L	0.036

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	94	(72 - 102)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-S

HPLC

Lot-Sample #...: D4F150189-003 **Work Order #...:** GJAP91AT **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:25 **Date Received..:** 06/15/04
Prep Date.....: 06/15/04 **Analysis Date..:** 06/25/04
Prep Batch #...: 4167463 **Analysis Time..:** 20:52
Dilution Factor: 1

Method.....: SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	1.0	ug/L	0.077
Acenaphthylene	ND	1.0	ug/L	0.039
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.048
Benzo(b)fluoranthene	ND	0.10	ug/L	0.030
Benzo(k)fluoranthene	ND	0.10	ug/L	0.031
Benzo(ghi)perylene	ND	0.20	ug/L	0.072
Benzo(a)pyrene	ND	0.10	ug/L	0.036
Chrysene	ND	0.20	ug/L	0.054
Dibenzo(a,h)anthracene	ND	0.20	ug/L	0.088
Fluoranthene	ND	0.20	ug/L	0.13
Fluorene	ND	0.20	ug/L	0.044
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.048
2-Methylnaphthalene	ND	1.0	ug/L	0.13
1-Methylnaphthalene	ND	1.0	ug/L	0.11
Naphthalene	ND	1.0	ug/L	0.085
Phenanthrene	ND	0.20	ug/L	0.099
Pyrene	ND	0.20	ug/L	0.036

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	96	(72 - 102)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-W

HPLC

Lot-Sample #...: D4F160246-001 **Work Order #...:** GJEQC1AG **Matrix.....:** WATER
Date Sampled...: 06/15/04 13:00 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 06/29/04
Prep Batch #...: 4168422 **Analysis Time..:** 18:53
Dilution Factor: 1

Method.....: SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	1.0	ug/L	0.077
Acenaphthylene	ND	1.0	ug/L	0.039
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.048
Benzo(b)fluoranthene	ND	0.10	ug/L	0.030
Benzo(k)fluoranthene	ND	0.10	ug/L	0.031
Benzo(ghi)perylene	ND	0.20	ug/L	0.072
Benzo(a)pyrene	ND	0.10	ug/L	0.036
Chrysene	ND	0.20	ug/L	0.054
Dibenzo(a,h)anthracene	ND	0.20	ug/L	0.088
Fluoranthene	ND	0.20	ug/L	0.13
Fluorene	ND	0.20	ug/L	0.044
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.048
2-Methylnaphthalene	ND	1.0	ug/L	0.13
1-Methylnaphthalene	ND	1.0	ug/L	0.11
Naphthalene	ND	1.0	ug/L	0.085
Phenanthrene	ND	0.20	ug/L	0.099
Pyrene	ND	0.20	ug/L	0.036

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	94	(72 - 102)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-XX

HPLC

Lot-Sample #...: D4F160246-002 **Work Order #...:** GJEQW1AT **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:30 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 06/29/04
Prep Batch #...: 4168422 **Analysis Time..:** 19:23
Dilution Factor: 1

Method.....: SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	1.0	ug/L	0.077
Acenaphthylene	ND	1.0	ug/L	0.039
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.048
Benzo(b)fluoranthene	ND	0.10	ug/L	0.030
Benzo(k)fluoranthene	ND	0.10	ug/L	0.031
Benzo(ghi)perylene	ND	0.20	ug/L	0.072
Benzo(a)pyrene	ND	0.10	ug/L	0.036
Chrysene	ND	0.20	ug/L	0.054
Dibenzo(a,h)anthracene	ND	0.20	ug/L	0.088
Fluoranthene	ND	0.20	ug/L	0.13
Fluorene	ND	0.20	ug/L	0.044
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.048
2-Methylnaphthalene	ND	1.0	ug/L	0.13
1-Methylnaphthalene	ND	1.0	ug/L	0.11
Naphthalene	ND	1.0	ug/L	0.085
Phenanthrene	ND	0.20	ug/L	0.099
Pyrene	ND	0.20	ug/L	0.036

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	93	(72 - 102)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X

HPLC

Lot-Sample #...: D4F160246-003 **Work Order #...:** GJEQ31AT **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:15 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 06/29/04
Prep Batch #...: 4168422 **Analysis Time..:** 19:54
Dilution Factor: 1

Method.....: SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	1.0	ug/L	0.077
Acenaphthylene	ND	1.0	ug/L	0.039
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.048
Benzo(b)fluoranthene	ND	0.10	ug/L	0.030
Benzo(k)fluoranthene	ND	0.10	ug/L	0.031
Benzo(ghi)perylene	ND	0.20	ug/L	0.072
Benzo(a)pyrene	ND	0.10	ug/L	0.036
Chrysene	ND	0.20	ug/L	0.054
Dibenzo(a,h)anthracene	ND	0.20	ug/L	0.088
Fluoranthene	ND	0.20	ug/L	0.13
Fluorene	ND	0.20	ug/L	0.044
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.048
2-Methylnaphthalene	ND	1.0	ug/L	0.13
1-Methylnaphthalene	ND	1.0	ug/L	0.11
Naphthalene	ND	1.0	ug/L	0.085
Phenanthrene	ND	0.20	ug/L	0.099
Pyrene	ND	0.20	ug/L	0.036

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	93	(72 - 102)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-G

HPLC

Lot-Sample #...: D4F160246-004 **Work Order #...:** GJEQ51AT **Matrix.....:** WATER
Date Sampled...: 06/15/04 11:20 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 06/29/04
Prep Batch #...: 4168422 **Analysis Time..:** 20:24
Dilution Factor: 1

Method.....: SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	1.0	ug/L	0.077
Acenaphthylene	ND	1.0	ug/L	0.039
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.048
Benzo(b)fluoranthene	ND	0.10	ug/L	0.030
Benzo(k)fluoranthene	ND	0.10	ug/L	0.031
Benzo(ghi)perylene	ND	0.20	ug/L	0.072
Benzo(a)pyrene	ND	0.10	ug/L	0.036
Chrysene	ND	0.20	ug/L	0.054
Dibenzo(a,h)anthracene	ND	0.20	ug/L	0.088
Fluoranthene	ND	0.20	ug/L	0.13
Fluorene	ND	0.20	ug/L	0.044
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.048
2-Methylnaphthalene	ND	1.0	ug/L	0.13
1-Methylnaphthalene	ND	1.0	ug/L	0.11
Naphthalene	ND	1.0	ug/L	0.085
Phenanthrene	ND	0.20	ug/L	0.099
Pyrene	ND	0.20	ug/L	0.036

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	97	(72 - 102)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X-EB

HPLC

Lot-Sample #...: D4F160246-005 **Work Order #...:** GJERC1AT **Matrix.....:** WATER
Date Sampled...: 06/15/04 10:00 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 06/29/04
Prep Batch #...: 4168422 **Analysis Time..:** 20:55
Dilution Factor: 1

Method.....: SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	1.0	ug/L	0.077
Acenaphthylene	ND	1.0	ug/L	0.039
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.048
Benzo(b)fluoranthene	ND	0.10	ug/L	0.030
Benzo(k)fluoranthene	ND	0.10	ug/L	0.031
Benzo(ghi)perylene	ND	0.20	ug/L	0.072
Benzo(a)pyrene	ND	0.10	ug/L	0.036
Chrysene	ND	0.20	ug/L	0.054
Dibenzo(a,h)anthracene	ND	0.20	ug/L	0.088
Fluoranthene	ND	0.20	ug/L	0.13
Fluorene	ND	0.20	ug/L	0.044
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.048
2-Methylnaphthalene	ND	1.0	ug/L	0.13
1-Methylnaphthalene	ND	1.0	ug/L	0.11
Naphthalene	ND	1.0	ug/L	0.085
Phenanthrene	ND	0.20	ug/L	0.099
Pyrene	ND	0.20	ug/L	0.036

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	91	(72 - 102)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-H

HPLC

Lot-Sample #...: D4F160246-006 **Work Order #...:** GJERE1AT **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:45 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 06/29/04
Prep Batch #...: 4168422 **Analysis Time..:** 21:25
Dilution Factor: 1

Method.....: SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	1.0	ug/L	0.077
Acenaphthylene	ND	1.0	ug/L	0.039
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.048
Benzo(b)fluoranthene	ND	0.10	ug/L	0.030
Benzo(k)fluoranthene	ND	0.10	ug/L	0.031
Benzo(ghi)perylene	ND	0.20	ug/L	0.072
Benzo(a)pyrene	ND	0.10	ug/L	0.036
Chrysene	ND	0.20	ug/L	0.054
Dibenzo(a,h)anthracene	ND	0.20	ug/L	0.088
Fluoranthene	ND	0.20	ug/L	0.13
Fluorene	ND	0.20	ug/L	0.044
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.048
2-Methylnaphthalene	ND	1.0	ug/L	0.13
1-Methylnaphthalene	ND	1.0	ug/L	0.11
Naphthalene	ND	1.0	ug/L	0.085
Phenanthrene	ND	0.20	ug/L	0.099
Pyrene	ND	0.20	ug/L	0.036

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	95	(72 - 102)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-T

HPLC

Lot-Sample #...: D4F160246-007 **Work Order #...:** GJERG1AT **Matrix.....:** WATER
Date Sampled...: 06/15/04 13:00 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 06/29/04
Prep Batch #...: 4168422 **Analysis Time..:** 21:56
Dilution Factor: 1

Method.....: SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	1.0	ug/L	0.077
Acenaphthylene	ND	1.0	ug/L	0.039
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.048
Benzo(b)fluoranthene	ND	0.10	ug/L	0.030
Benzo(k)fluoranthene	ND	0.10	ug/L	0.031
Benzo(ghi)perylene	ND	0.20	ug/L	0.072
Benzo(a)pyrene	ND	0.10	ug/L	0.036
Chrysene	ND	0.20	ug/L	0.054
Dibenzo(a,h)anthracene	ND	0.20	ug/L	0.088
Fluoranthene	ND	0.20	ug/L	0.13
Fluorene	ND	0.20	ug/L	0.044
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.048
2-Methylnaphthalene	ND	1.0	ug/L	0.13
1-Methylnaphthalene	ND	1.0	ug/L	0.11
Naphthalene	ND	1.0	ug/L	0.085
Phenanthrene	ND	0.20	ug/L	0.099
Pyrene	ND	0.20	ug/L	0.036

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	88	(72 - 102)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-C

HPLC

Lot-Sample #...: D4F160246-008 **Work Order #...:** GJERH1AT **Matrix.....:** WATER
Date Sampled...: 06/15/04 14:30 **Date Received..:** 06/16/04
Prep Date.....: 06/16/04 **Analysis Date..:** 06/29/04
Prep Batch #...: 4168422 **Analysis Time..:** 22:57
Dilution Factor: 1

Method.....: SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	1.0	ug/L	0.077
Acenaphthylene	ND	1.0	ug/L	0.039
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.048
Benzo(b)fluoranthene	ND	0.10	ug/L	0.030
Benzo(k)fluoranthene	ND	0.10	ug/L	0.031
Benzo(ghi)perylene	ND	0.20	ug/L	0.072
Benzo(a)pyrene	ND	0.10	ug/L	0.036
Chrysene	ND	0.20	ug/L	0.054
Dibenzo(a,h)anthracene	ND	0.20	ug/L	0.088
Fluoranthene	ND	0.20	ug/L	0.13
Fluorene	ND	0.20	ug/L	0.044
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.048
2-Methylnaphthalene	ND	1.0	ug/L	0.13
1-Methylnaphthalene	ND	1.0	ug/L	0.11
Naphthalene	ND	1.0	ug/L	0.085
Phenanthrene	ND	0.20	ug/L	0.099
Pyrene	ND	0.20	ug/L	0.036

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	92	(72 - 102)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D

HPLC

Lot-Sample #...: D4F170353-001 **Work Order #...:** GJH7K1AG **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04
Prep Date.....: 06/22/04 **Analysis Date..:** 06/28/04
Prep Batch #...: 4174278 **Analysis Time..:** 18:15
Dilution Factor: 1

Method.....: SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	1.0	ug/L	0.077
Acenaphthylene	ND	1.0	ug/L	0.039
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.048
Benzo(b)fluoranthene	ND	0.10	ug/L	0.030
Benzo(k)fluoranthene	ND	0.10	ug/L	0.031
Benzo(ghi)perylene	ND	0.20	ug/L	0.072
Benzo(a)pyrene	ND	0.10	ug/L	0.036
Chrysene	ND	0.20	ug/L	0.054
Dibenzo(a,h)anthracene	ND	0.20	ug/L	0.088
Fluoranthene	ND	0.20	ug/L	0.13
Fluorene	ND	0.20	ug/L	0.044
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.048
2-Methylnaphthalene	ND	1.0	ug/L	0.13
1-Methylnaphthalene	ND	1.0	ug/L	0.11
Naphthalene	ND	1.0	ug/L	0.085
Phenanthrene	ND	0.20	ug/L	0.099
Pyrene	ND	0.20	ug/L	0.036

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	84	(72 - 102)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-U

HPLC

Lot-Sample #...: D4F170353-002 **Work Order #...:** GJH781AT **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:40 **Date Received..:** 06/17/04
Prep Date.....: 06/22/04 **Analysis Date..:** 06/28/04
Prep Batch #...: 4174278 **Analysis Time..:** 19:46
Dilution Factor: 1

Method.....: SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	1.0	ug/L	0.077
Acenaphthylene	ND	1.0	ug/L	0.039
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.048
Benzo(b)fluoranthene	ND	0.10	ug/L	0.030
Benzo(k)fluoranthene	ND	0.10	ug/L	0.031
Benzo(ghi)perylene	ND	0.20	ug/L	0.072
Benzo(a)pyrene	ND	0.10	ug/L	0.036
Chrysene	ND	0.20	ug/L	0.054
Dibenzo(a,h)anthracene	ND	0.20	ug/L	0.088
Fluoranthene	ND	0.20	ug/L	0.13
Fluorene	ND	0.20	ug/L	0.044
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.048
2-Methylnaphthalene	ND	1.0	ug/L	0.13
1-Methylnaphthalene	ND	1.0	ug/L	0.11
Naphthalene	ND	1.0	ug/L	0.085
Phenanthrene	ND	0.20	ug/L	0.099
Pyrene	ND	0.20	ug/L	0.036

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	85	(72 - 102)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-E

HPLC

Lot-Sample #...: D4F170353-003 **Work Order #...:** GJH8D1AT **Matrix.....:** WATER
Date Sampled...: 06/16/04 13:00 **Date Received..:** 06/17/04
Prep Date.....: 06/22/04 **Analysis Date..:** 06/28/04
Prep Batch #...: 4174278 **Analysis Time..:** 20:17
Dilution Factor: 1

Method.....: SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	1.0	ug/L	0.077
Acenaphthylene	ND	1.0	ug/L	0.039
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.048
Benzo(b)fluoranthene	ND	0.10	ug/L	0.030
Benzo(k)fluoranthene	ND	0.10	ug/L	0.031
Benzo(ghi)perylene	ND	0.20	ug/L	0.072
Benzo(a)pyrene	ND	0.10	ug/L	0.036
Chrysene	ND	0.20	ug/L	0.054
Dibenzo(a,h)anthracene	ND	0.20	ug/L	0.088
Fluoranthene	ND	0.20	ug/L	0.13
Fluorene	ND	0.20	ug/L	0.044
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.048
2-Methylnaphthalene	ND	1.0	ug/L	0.13
1-Methylnaphthalene	ND	1.0	ug/L	0.11
Naphthalene	ND	1.0	ug/L	0.085
Phenanthrene	ND	0.20	ug/L	0.099
Pyrene	ND	0.20	ug/L	0.036

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	88	(72 - 102)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-B

HPLC

Lot-Sample #...: D4F170353-004 **Work Order #...:** GJH8F1AT **Matrix.....:** WATER
Date Sampled...: 06/16/04 08:30 **Date Received..:** 06/17/04
Prep Date.....: 06/22/04 **Analysis Date..:** 06/28/04
Prep Batch #...: 4174278 **Analysis Time..:** 20:47
Dilution Factor: 1

Method.....: SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	1.0	ug/L	0.077
Acenaphthylene	ND	1.0	ug/L	0.039
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.048
Benzo(b)fluoranthene	ND	0.10	ug/L	0.030
Benzo(k)fluoranthene	ND	0.10	ug/L	0.031
Benzo(ghi)perylene	ND	0.20	ug/L	0.072
Benzo(a)pyrene	ND	0.10	ug/L	0.036
Chrysene	ND	0.20	ug/L	0.054
Dibenzo(a,h)anthracene	ND	0.20	ug/L	0.088
Fluoranthene	ND	0.20	ug/L	0.13
Fluorene	ND	0.20	ug/L	0.044
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.048
2-Methylnaphthalene	ND	1.0	ug/L	0.13
1-Methylnaphthalene	ND	1.0	ug/L	0.11
Naphthalene	ND	1.0	ug/L	0.085
Phenanthrene	ND	0.20	ug/L	0.099
Pyrene	ND	0.20	ug/L	0.036

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	91	(72 - 102)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-A

HPLC

Lot-Sample #...: D4F170353-005 **Work Order #...:** GJH8G1AT **Matrix.....:** WATER
Date Sampled...: 06/16/04 11:50 **Date Received..:** 06/17/04
Prep Date.....: 06/22/04 **Analysis Date..:** 06/28/04
Prep Batch #...: 4174278 **Analysis Time..:** 21:18
Dilution Factor: 1

Method.....: SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	1.0	ug/L	0.077
Acenaphthylene	ND	1.0	ug/L	0.039
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.048
Benzo(b)fluoranthene	ND	0.10	ug/L	0.030
Benzo(k)fluoranthene	ND	0.10	ug/L	0.031
Benzo(ghi)perylene	ND	0.20	ug/L	0.072
Benzo(a)pyrene	ND	0.10	ug/L	0.036
Chrysene	ND	0.20	ug/L	0.054
Dibenzo(a,h)anthracene	ND	0.20	ug/L	0.088
Fluoranthene	ND	0.20	ug/L	0.13
Fluorene	ND	0.20	ug/L	0.044
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.048
2-Methylnaphthalene	ND	1.0	ug/L	0.13
1-Methylnaphthalene	ND	1.0	ug/L	0.11
Naphthalene	ND	1.0	ug/L	0.085
Phenanthrene	ND	0.20	ug/L	0.099
Pyrene	ND	0.20	ug/L	0.036

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	95	(72 - 102)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D1

HPLC

Lot-Sample #...: D4F170353-006 **Work Order #...:** GJH8H1AT **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:10 **Date Received..:** 06/17/04
Prep Date.....: 06/22/04 **Analysis Date..:** 06/28/04
Prep Batch #...: 4174278 **Analysis Time..:** 22:19
Dilution Factor: 1

Method.....: SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	1.0	ug/L	0.077
Acenaphthylene	ND	1.0	ug/L	0.039
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.048
Benzo(b)fluoranthene	ND	0.10	ug/L	0.030
Benzo(k)fluoranthene	ND	0.10	ug/L	0.031
Benzo(ghi)perylene	ND	0.20	ug/L	0.072
Benzo(a)pyrene	ND	0.10	ug/L	0.036
Chrysene	ND	0.20	ug/L	0.054
Dibenzo(a,h)anthracene	ND	0.20	ug/L	0.088
Fluoranthene	ND	0.20	ug/L	0.13
Fluorene	ND	0.20	ug/L	0.044
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.048
2-Methylnaphthalene	ND	1.0	ug/L	0.13
1-Methylnaphthalene	ND	1.0	ug/L	0.11
Naphthalene	ND	1.0	ug/L	0.085
Phenanthrene	ND	0.20	ug/L	0.099
Pyrene	ND	0.20	ug/L	0.036

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	91	(72 - 102)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-F

HPLC

Lot-Sample #...: D4F170353-007 **Work Order #...:** GJH8M1AT **Matrix.....:** WATER
Date Sampled...: 06/16/04 11:55 **Date Received..:** 06/17/04
Prep Date.....: 06/22/04 **Analysis Date..:** 06/28/04
Prep Batch #...: 4174278 **Analysis Time..:** 22:50
Dilution Factor: 1

Method.....: SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	1.0	ug/L	0.077
Acenaphthylene	ND	1.0	ug/L	0.039
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.048
Benzo(b)fluoranthene	ND	0.10	ug/L	0.030
Benzo(k)fluoranthene	ND	0.10	ug/L	0.031
Benzo(ghi)perylene	ND	0.20	ug/L	0.072
Benzo(a)pyrene	ND	0.10	ug/L	0.036
Chrysene	ND	0.20	ug/L	0.054
Dibenzo(a,h)anthracene	ND	0.20	ug/L	0.088
Fluoranthene	ND	0.20	ug/L	0.13
Fluorene	ND	0.20	ug/L	0.044
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.048
2-Methylnaphthalene	ND	1.0	ug/L	0.13
1-Methylnaphthalene	ND	1.0	ug/L	0.11
Naphthalene	ND	1.0	ug/L	0.085
Phenanthrene	ND	0.20	ug/L	0.099
Pyrene	ND	0.20	ug/L	0.036

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	87	(72 - 102)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-V

HPLC

Lot-Sample #...:	D4F150189-001	**Work Order #...:**	GJANT1CN	**Matrix.....:**	WATER
Date Sampled...:	06/14/04 14:20	**Date Received..:**	06/15/04		
Prep Date.....:	06/29/04	**Analysis Date..:**	06/30/04		
Prep Batch #...:	4176194	**Analysis Time..:**	11:51		
Dilution Factor:	50				
		Method.....:	SW846 8321A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perchlorate	**5.6**	**0.50**	**ug/L**	**0.060**

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-S

HPLC

Lot-Sample #...: D4F150189-003 **Work Order #...:** GJAP91CN **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:25 **Date Received..:** 06/15/04
Prep Date.....: 06/29/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4176194 **Analysis Time..:** 12:10
Dilution Factor: 20

Method.....: SW846 8321A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perchlorate	**2.7**	**0.20**	**ug/L**	**0.024**

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-W

HPLC

Lot-Sample #...: D4F160246-001 **Work Order #...:** GJEQC1CM **Matrix.....:** WATER
Date Sampled...: 06/15/04 13:00 **Date Received..:** 06/16/04
Prep Date.....: 06/29/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4176194 **Analysis Time..:** 12:29
Dilution Factor: 5

Method.....: SW846 8321A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perchlorate	**0.63**	**0.050**	**ug/L**	**0.0060**

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-XX

HPLC

Lot-Sample #...: D4F160246-002 **Work Order #...:** GJEQW1CM **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:30 **Date Received..:** 06/16/04
Prep Date.....: 06/29/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4176194 **Analysis Time..:** 12:49
Dilution Factor: 10

Method.....: SW846 8321A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perchlorate	**1.1**	**0.10**	**ug/L**	**0.012**

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X

HPLC

Lot-Sample #...:	D4F160246-003	**Work Order #...:**	GJEQ31CM	**Matrix.....:**	WATER
Date Sampled...:	06/15/04 09:15	**Date Received..:**	06/16/04		
Prep Date.....:	06/29/04	**Analysis Date..:**	06/30/04		
Prep Batch #...:	4176194	**Analysis Time..:**	13:08		
Dilution Factor:	10				
		Method.....:	SW846 8321A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perchlorate	**1.1**	**0.10**	**ug/L**	**0.012**

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-G

HPLC

Lot-Sample #...: D4F160246-004 **Work Order #...:** GJEQ51CM **Matrix.....:** WATER
Date Sampled...: 06/15/04 11:20 **Date Received..:** 06/16/04
Prep Date.....: 06/29/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4176194 **Analysis Time..:** 13:27
Dilution Factor: 20

Method.....: SW846 8321A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perchlorate	**1.7**	**0.20**	**ug/L**	**0.024**

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X-EB

HPLC

Lot-Sample #...: D4F160246-005 **Work Order #...:** GJERC1CM **Matrix.....:** WATER
Date Sampled...: 06/15/04 10:00 **Date Received..:** 06/16/04
Prep Date.....: 06/29/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4176194 **Analysis Time..:** 14:06
Dilution Factor: 1

Method.....: SW846 8321A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perchlorate	ND	0.010	ug/L	0.0012

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-H

HPLC

Lot-Sample #...: D4F160246-006 **Work Order #...:** GJERE1CM **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:45 **Date Received..:** 06/16/04
Prep Date.....: 06/29/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4176194 **Analysis Time..:** 14:25
Dilution Factor: 20

Method.....: SW846 8321A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perchlorate	**2.6**	**0.20**	**ug/L**	**0.024**

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-T

HPLC

Lot-Sample #...: D4F160246-007 Work Order #...: GJERG1CM Matrix.....: WATER
Date Sampled...: 06/15/04 13:00 Date Received..: 06/16/04
Prep Date.....: 06/29/04 Analysis Date..: 06/30/04
Prep Batch #...: 4176194 Analysis Time..: 14:44
Dilution Factor: 20

Method.....: SW846 8321A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perchlorate	2.3	0.20	ug/L	0.024

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-C

HPLC

Lot-Sample #...: D4F160246-008 **Work Order #...:** GJERH1CM **Matrix.....:** WATER
Date Sampled...: 06/15/04 14:30 **Date Received..:** 06/16/04
Prep Date.....: 06/29/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4176194 **Analysis Time..:** 15:03
Dilution Factor: 5

Method.....: SW846 8321A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perchlorate	**0.41**	**0.050**	**ug/L**	**0.0060**

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D

HPLC

Lot-Sample #...: D4F170353-001 Work Order #...: GJH7K1CN Matrix.....: WATER
Date Sampled...: 06/16/04 09:05 Date Received..: 06/17/04
Prep Date.....: 06/30/04 Analysis Date..: 07/01/04
Prep Batch #...: 4182292 Analysis Time..: 01:20
Dilution Factor: 1
Method.....: SW846 8321A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perchlorate	0.21 B	0.010	ug/L	0.0012

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-U

HPLC

Lot-Sample #...:	D4F170353-002	**Work Order #...:**	GJH781CN	**Matrix.....:**	WATER
Date Sampled...:	06/16/04 09:40	**Date Received..:**	06/17/04		
Prep Date.....:	06/30/04	**Analysis Date..:**	07/06/04		
Prep Batch #...:	4182292	**Analysis Time..:**	18:20		
Dilution Factor:	10				
		Method.....:	SW846 8321A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perchlorate	**2.3 B**	**0.10**	**ug/L**	**0.012**

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-E

HPLC

Lot-Sample #...:	D4F170353-003	**Work Order #...:**	GJH8D1CN	**Matrix.....:**	WATER
Date Sampled...:	06/16/04 13:00	**Date Received..:**	06/17/04		
Prep Date.....:	06/30/04	**Analysis Date..:**	07/06/04		
Prep Batch #...:	4182292	**Analysis Time..:**	18:39		
Dilution Factor:	10				
		Method.....:	SW846 8321A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perchlorate	**1.8 B**	**0.10**	**ug/L**	**0.012**

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-B

HPLC

Lot-Sample #...: D4F170353-004 **Work Order #...:** GJH8F1CN **Matrix.....:** WATER
Date Sampled...: 06/16/04 08:30 **Date Received..:** 06/17/04
Prep Date.....: 06/30/04 **Analysis Date..:** 07/06/04
Prep Batch #...: 4182292 **Analysis Time..:** 18:58
Dilution Factor: 10

Method.....: SW846 8321A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perchlorate	**2.3 B**	**0.10**	**ug/L**	**0.012**

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-A

HPLC

Lot-Sample #...:	D4F170353-005	**Work Order #...:**	GJH8G1CN	**Matrix.....:**	WATER
Date Sampled...:	06/16/04 11:50	**Date Received..:**	06/17/04		
Prep Date.....:	06/30/04	**Analysis Date..:**	07/06/04		
Prep Batch #...:	4182292	**Analysis Time..:**	19:18		
Dilution Factor:	10				
		Method.....:	SW846 8321A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perchlorate	**2.4 B**	**0.10**	**ug/L**	**0.012**

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D1

HPLC

Lot-Sample #...: D4F170353-006 Work Order #...: GJH8H1CN Matrix.....: WATER
Date Sampled...: 06/16/04 09:10 Date Received..: 06/17/04
Prep Date.....: 06/30/04 Analysis Date..: 07/06/04
Prep Batch #...: 4182292 Analysis Time..: 19:37
Dilution Factor: 1

Method.....: SW846 8321A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perchlorate	0.18 B	0.010	ug/L	0.0012

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-F

HPLC

Lot-Sample #...: D4F170353-007 Work Order #...: GJH8M1CN Matrix.....: WATER
Date Sampled...: 06/16/04 11:55 Date Received..: 06/17/04
Prep Date.....: 06/30/04 Analysis Date..: 07/06/04
Prep Batch #...: 4182292 Analysis Time..: 19:56
Dilution Factor: 10

Method.....: SW846 8321A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perchlorate	2.2 B	0.10	ug/L	0.012

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-V

TOTAL Metals

Lot-Sample #...: D4F150189-001 **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:20 **Date Received..:** 06/15/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4177616						
Aluminum	**80 B,J**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJANT1AR**
		Dilution Factor: 1		Analysis Time..: 00:38	MDL.....: 20	
Barium	**31 J**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJANT1AT**
		Dilution Factor: 1		Analysis Time..: 21:20	MDL.....: 0.37	
Beryllium	**0.72 B,J**	**5.0**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJANT1AU**
		Dilution Factor: 1		Analysis Time..: 00:38	MDL.....: 0.41	
Calcium	**72000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJANT1CG**
		Dilution Factor: 1		Analysis Time..: 00:38	MDL.....: 76	
Cobalt	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJANT1CD
		Dilution Factor: 1		Analysis Time..: 21:20	MDL.....: 0.67	
Copper	ND	20	ug/L	SW846 6010B	07/01-07/08/04	GJANT1AV
		Dilution Factor: 1		Analysis Time..: 21:20	MDL.....: 0.97	
Iron	**55 B**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJANT1AW**
		Dilution Factor: 1		Analysis Time..: 00:38	MDL.....: 19	
Potassium	**8700**	**3000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJANT1CJ**
		Dilution Factor: 1		Analysis Time..: 00:38	MDL.....: 460	
Magnesium	**63000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJANT1CH**
		Dilution Factor: 1		Analysis Time..: 00:38	MDL.....: 27	
Manganese	**24**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJANT1AX**
		Dilution Factor: 1		Analysis Time..: 21:20	MDL.....: 0.54	
Molybdenum	**3.2 B**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJANT1CE**
		Dilution Factor: 1		Analysis Time..: 21:20	MDL.....: 2.3	
Sodium	**80000**	**5000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJANT1CK**
		Dilution Factor: 1		Analysis Time..: 00:38	MDL.....: 1100	
Nickel	ND	40	ug/L	SW846 6010B	07/01-07/08/04	GJANT1A0
		Dilution Factor: 1		Analysis Time..: 21:20	MDL.....: 4.2	

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-V

TOTAL Metals

Lot-Sample #...: D4F150189-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Tin	ND	100	ug/L	SW846 6010B	07/01-07/08/04	GJANT1CF
		Dilution Factor: 1		Analysis Time..: 21:20	MDL.....: 5.0	
Vanadium	**22**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJANT1A1**
		Dilution Factor: 1		Analysis Time..: 21:20	MDL.....: 2.6	
Zinc	**12 B**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJANT1A2**
		Dilution Factor: 1		Analysis Time..: 21:20	MDL.....: 7.1	
Prep Batch #...: 4181230						
Mercury	ND	0.20	ug/L	SW846 7470A	07/02/04	GJANT1CC
		Dilution Factor: 1		Analysis Time..: 20:16	MDL.....: 0.025	
Prep Batch #...: 4182583						
Silver	ND	5.0	ug/L	SW846 6020	07/08/04	GJANT1A8
		Dilution Factor: 1		Analysis Time..: 21:14	MDL.....: 0.047	
Arsenic	**4.5 B**	**5.0**	**ug/L**	**SW846 6020**	**07/08/04**	**GJANT1A4**
		Dilution Factor: 1		Analysis Time..: 21:14	MDL.....: 0.094	
Cadmium	ND	1.0	ug/L	SW846 6020	07/08/04	GJANT1A5
		Dilution Factor: 1		Analysis Time..: 21:14	MDL.....: 0.028	
Chromium	**1.3 B,J**	**2.0**	**ug/L**	**SW846 6020**	**07/08/04**	**GJANT1CA**
		Dilution Factor: 1		Analysis Time..: 21:14	MDL.....: 0.23	
Lead	**0.11 B**	**1.0**	**ug/L**	**SW846 6020**	**07/08/04**	**GJANT1A6**
		Dilution Factor: 1		Analysis Time..: 21:14	MDL.....: 0.077	
Antimony	ND	2.0	ug/L	SW846 6020	07/08/04	GJANT1A3
		Dilution Factor: 1		Analysis Time..: 21:14	MDL.....: 0.15	
Selenium	**10**	**5.0**	**ug/L**	**SW846 6020**	**07/08/04**	**GJANT1A7**
		Dilution Factor: 1		Analysis Time..: 21:14	MDL.....: 0.16	
Thallium	ND	1.0	ug/L	SW846 6020	07/08/04	GJANT1A9
		Dilution Factor: 1		Analysis Time..: 21:14	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-S

TOTAL Metals

Lot-Sample #...: D4F150189-003 **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:25 **Date Received..:** 06/15/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4177616						
Aluminum	**89 B,J**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJAP91A4**
		Dilution Factor: 1		Analysis Time..: 00:43	MDL.....: 20	
Barium	**30 J**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJAP91A5**
		Dilution Factor: 1		Analysis Time..: 21:24	MDL.....: 0.37	
Beryllium	**0.58 B,J**	**5.0**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJAP91A6**
		Dilution Factor: 1		Analysis Time..: 00:43	MDL.....: 0.41	
Calcium	**50000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJAP91CG**
		Dilution Factor: 1		Analysis Time..: 00:43	MDL.....: 76	
Cobalt	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJAP91CD
		Dilution Factor: 1		Analysis Time..: 21:24	MDL.....: 0.67	
Copper	**28**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJAP91A7**
		Dilution Factor: 1		Analysis Time..: 21:24	MDL.....: 0.97	
Iron	**49 B**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJAP91A8**
		Dilution Factor: 1		Analysis Time..: 00:43	MDL.....: 19	
Potassium	**7800**	**3000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJAP91CJ**
		Dilution Factor: 1		Analysis Time..: 00:43	MDL.....: 460	
Magnesium	**47000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJAP91CH**
		Dilution Factor: 1		Analysis Time..: 00:43	MDL.....: 27	
Manganese	**1.7 B**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJAP91A9**
		Dilution Factor: 1		Analysis Time..: 21:24	MDL.....: 0.54	
Molybdenum	**4.2 B**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJAP91CE**
		Dilution Factor: 1		Analysis Time..: 21:24	MDL.....: 2.3	
Sodium	**54000**	**5000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJAP91CK**
		Dilution Factor: 1		Analysis Time..: 00:43	MDL.....: 1100	
Nickel	ND	40	ug/L	SW846 6010B	07/01-07/08/04	GJAP91AA
		Dilution Factor: 1		Analysis Time..: 21:24	MDL.....: 4.2	

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-S

TOTAL Metals

Lot-Sample #...: D4F150189-003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Tin	ND	100	ug/L	SW846 6010B	07/01-07/08/04	GJAP91CF
		Dilution Factor: 1		Analysis Time..: 21:24	MDL.....: 5.0	
Vanadium	**30**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJAP91AC**
		Dilution Factor: 1		Analysis Time..: 21:24	MDL.....: 2.6	
Zinc	**35**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJAP91AD**
		Dilution Factor: 1		Analysis Time..: 21:24	MDL.....: 7.1	
Prep Batch #...: 4181230						
Mercury	ND	0.20	ug/L	SW846 7470A	07/02/04	GJAP91CC
		Dilution Factor: 1		Analysis Time..: 20:21	MDL.....: 0.025	
Prep Batch #...: 4182583						
Silver	**0.072 B**	**5.0**	**ug/L**	**SW846 6020**	**07/08/04**	**GJAP91AK**
		Dilution Factor: 1		Analysis Time..: 21:33	MDL.....: 0.047	
Arsenic	**4.8 B**	**5.0**	**ug/L**	**SW846 6020**	**07/08/04**	**GJAP91AF**
		Dilution Factor: 1		Analysis Time..: 21:33	MDL.....: 0.094	
Cadmium	**0.032 B**	**1.0**	**ug/L**	**SW846 6020**	**07/08/04**	**GJAP91AG**
		Dilution Factor: 1		Analysis Time..: 21:33	MDL.....: 0.028	
Chromium	**2.1 J**	**2.0**	**ug/L**	**SW846 6020**	**07/08/04**	**GJAP91CA**
		Dilution Factor: 1		Analysis Time..: 21:33	MDL.....: 0.23	
Lead	**0.30 B**	**1.0**	**ug/L**	**SW846 6020**	**07/08/04**	**GJAP91AH**
		Dilution Factor: 1		Analysis Time..: 21:33	MDL.....: 0.077	
Antimony	ND	2.0	ug/L	SW846 6020	07/08/04	GJAP91AE
		Dilution Factor: 1		Analysis Time..: 21:33	MDL.....: 0.15	
Selenium	**6.3**	**5.0**	**ug/L**	**SW846 6020**	**07/08/04**	**GJAP91AJ**
		Dilution Factor: 1		Analysis Time..: 21:33	MDL.....: 0.16	
Thallium	ND	1.0	ug/L	SW846 6020	07/08/04	GJAP91AL
		Dilution Factor: 1		Analysis Time..: 21:33	MDL.....: 0.047	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-W

TOTAL Metals

Lot-Sample #...: D4F160246-001 **Matrix.....:** WATER
Date Sampled...: 06/15/04 13:00 **Date Received..:** 06/16/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4177601						
Silver	ND	5.0	ug/L	SW846 6020	07/07-07/08/04	GJEQC1A8
		Dilution Factor: 1		Analysis Time..: 22:25	MDL.....: 0.047	
Arsenic	**2.0 B**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJEQC1A4**
		Dilution Factor: 1		Analysis Time..: 22:25	MDL.....: 0.094	
Cadmium	**0.029 B**	**1.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJEQC1A5**
		Dilution Factor: 1		Analysis Time..: 22:25	MDL.....: 0.028	
Chromium	**1.1 B,J**	**2.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJEQC1CA**
		Dilution Factor: 1		Analysis Time..: 22:25	MDL.....: 0.23	
Lead	**0.78 B**	**1.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJEQC1A6**
		Dilution Factor: 1		Analysis Time..: 22:25	MDL.....: 0.077	
Antimony	ND	2.0	ug/L	SW846 6020	07/07-07/08/04	GJEQC1A3
		Dilution Factor: 1		Analysis Time..: 22:25	MDL.....: 0.15	
Selenium	**2.0 B**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJEQC1A7**
		Dilution Factor: 1		Analysis Time..: 22:25	MDL.....: 0.16	
Thallium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJEQC1A9
		Dilution Factor: 1		Analysis Time..: 22:25	MDL.....: 0.047	
Prep Batch #...: 4177616						
Aluminum	**110 J**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQC1AR**
		Dilution Factor: 1		Analysis Time..: 00:47	MDL.....: 20	
Barium	**22 J**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJEQC1AT**
		Dilution Factor: 1		Analysis Time..: 21:29	MDL.....: 0.37	
Beryllium	**0.69 B,J**	**5.0**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQC1AU**
		Dilution Factor: 1		Analysis Time..: 00:47	MDL.....: 0.41	
Calcium	**58000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQC1CG**
		Dilution Factor: 1		Analysis Time..: 00:47	MDL.....: 76	
Cobalt	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJEQC1CD
		Dilution Factor: 1		Analysis Time..: 21:29	MDL.....: 0.67	

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-W

TOTAL Metals

Lot-Sample #...: D4F160246-001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	2.8 B	20	ug/L	SW846 6010B	07/01-07/08/04	GJEQC1AV
		Dilution Factor: 1		Analysis Time..: 21:29	MDL.....: 0.97	
Iron	110	100	ug/L	SW846 6010B	07/01-07/11/04	GJEQC1AW
		Dilution Factor: 1		Analysis Time..: 00:47	MDL.....: 19	
Potassium	11000	3000	ug/L	SW846 6010B	07/01-07/11/04	GJEQC1CJ
		Dilution Factor: 1		Analysis Time..: 00:47	MDL.....: 460	
Magnesium	48000	200	ug/L	SW846 6010B	07/01-07/11/04	GJEQC1CH
		Dilution Factor: 1		Analysis Time..: 00:47	MDL.....: 27	
Manganese	2.8 B	10	ug/L	SW846 6010B	07/01-07/08/04	GJEQC1AX
		Dilution Factor: 1		Analysis Time..: 21:29	MDL.....: 0.54	
Molybdenum	12 B	20	ug/L	SW846 6010B	07/01-07/08/04	GJEQC1CE
		Dilution Factor: 1		Analysis Time..: 21:29	MDL.....: 2.3	
Sodium	98000	5000	ug/L	SW846 6010B	07/01-07/11/04	GJEQC1CK
		Dilution Factor: 1		Analysis Time..: 00:47	MDL.....: 1100	
Nickel	ND	40	ug/L	SW846 6010B	07/01-07/08/04	GJEQC1A0
		Dilution Factor: 1		Analysis Time..: 21:29	MDL.....: 4.2	
Tin	ND	100	ug/L	SW846 6010B	07/01-07/08/04	GJEQC1CF
		Dilution Factor: 1		Analysis Time..: 21:29	MDL.....: 5.0	
Vanadium	7.3 B	10	ug/L	SW846 6010B	07/01-07/08/04	GJEQC1A1
		Dilution Factor: 1		Analysis Time..: 21:29	MDL.....: 2.6	
Zinc	10 B	20	ug/L	SW846 6010B	07/01-07/08/04	GJEQC1A2
		Dilution Factor: 1		Analysis Time..: 21:29	MDL.....: 7.1	

Prep Batch #...: 4182444

Mercury	0.19 B,J	0.20	ug/L	SW846 7470A	06/30-07/13/04	GJEQC1CC
		Dilution Factor: 1		Analysis Time..: 09:33	MDL.....: 0.025	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-XX

TOTAL Metals

Lot-Sample #...: D4F160246-002 **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:30 **Date Received..:** 06/16/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4177601						
Silver	ND	5.0	ug/L	SW846 6020	07/07-07/08/04	GJEQW1AK
		Dilution Factor: 1		Analysis Time..: 22:29	MDL.....: 0.047	
Arsenic	**6.3**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJEQW1AF**
		Dilution Factor: 1		Analysis Time..: 22:29	MDL.....: 0.094	
Cadmium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJEQW1AG
		Dilution Factor: 1		Analysis Time..: 22:29	MDL.....: 0.028	
Chromium	**1.7 B,J**	**2.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJEQW1CA**
		Dilution Factor: 1		Analysis Time..: 22:29	MDL.....: 0.23	
Lead	**0.14 B**	**1.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJEQW1AH**
		Dilution Factor: 1		Analysis Time..: 22:29	MDL.....: 0.077	
Antimony	**0.21 B**	**2.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJEQW1AE**
		Dilution Factor: 1		Analysis Time..: 22:29	MDL.....: 0.15	
Selenium	**2.5 B**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJEQW1AJ**
		Dilution Factor: 1		Analysis Time..: 22:29	MDL.....: 0.16	
Thallium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJEQW1AL
		Dilution Factor: 1		Analysis Time..: 22:29	MDL.....: 0.047	
Prep Batch #...: 4177616						
Aluminum	**68 B,J**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQW1A4**
		Dilution Factor: 1		Analysis Time..: 00:52	MDL.....: 20	
Barium	**61 J**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJEQW1A5**
		Dilution Factor: 1		Analysis Time..: 21:34	MDL.....: 0.37	
Beryllium	**0.63 B,J**	**5.0**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQW1A6**
		Dilution Factor: 1		Analysis Time..: 00:52	MDL.....: 0.41	
Calcium	**28000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQW1CG**
		Dilution Factor: 1		Analysis Time..: 00:52	MDL.....: 76	
Cobalt	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJEQW1CD
		Dilution Factor: 1		Analysis Time..: 21:34	MDL.....: 0.67	

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-XX

TOTAL Metals

Lot-Sample #...: D4F160246-002 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	20	ug/L	SW846 6010B	07/01-07/08/04	GJEQW1A7
		Dilution Factor: 1		Analysis Time..: 21:34	MDL.....: 0.97	
Iron	**41 B**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQW1A8**
		Dilution Factor: 1		Analysis Time..: 00:52	MDL.....: 19	
Potassium	**6500**	**3000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQW1CJ**
		Dilution Factor: 1		Analysis Time..: 00:52	MDL.....: 460	
Magnesium	**24000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQW1CH**
		Dilution Factor: 1		Analysis Time..: 00:52	MDL.....: 27	
Manganese	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJEQW1A9
		Dilution Factor: 1		Analysis Time..: 21:34	MDL.....: 0.54	
Molybdenum	**7.8 B**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJEQW1CE**
		Dilution Factor: 1		Analysis Time..: 21:34	MDL.....: 2.3	
Sodium	**46000**	**5000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQW1CK**
		Dilution Factor: 1		Analysis Time..: 00:52	MDL.....: 1100	
Nickel	ND	40	ug/L	SW846 6010B	07/01-07/08/04	GJEQW1AA
		Dilution Factor: 1		Analysis Time..: 21:34	MDL.....: 4.2	
Tin	ND	100	ug/L	SW846 6010B	07/01-07/08/04	GJEQW1CF
		Dilution Factor: 1		Analysis Time..: 21:34	MDL.....: 5.0	
Vanadium	**47**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJEQW1AC**
		Dilution Factor: 1		Analysis Time..: 21:34	MDL.....: 2.6	
Zinc	ND	20	ug/L	SW846 6010B	07/01-07/08/04	GJEQW1AD
		Dilution Factor: 1		Analysis Time..: 21:34	MDL.....: 7.1	

Prep Batch #...: 4182444

Mercury	**0.11 B,J**	**0.20**	**ug/L**	**SW846 7470A**	**06/30-07/13/04**	**GJEQW1CC**
		Dilution Factor: 1		Analysis Time..: 09:38	MDL.....: 0.025	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X

TOTAL Metals

Lot-Sample #...: D4F160246-003 **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:15 **Date Received..:** 06/16/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4177601						
Silver	ND	5.0	ug/L	SW846 6020	07/07-07/08/04	GJEQ31AK
		Dilution Factor: 1		Analysis Time..: 22:32	MDL.....: 0.047	
Arsenic	**6.4**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJEQ31AF**
		Dilution Factor: 1		Analysis Time..: 22:32	MDL.....: 0.094	
Cadmium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJEQ31AG
		Dilution Factor: 1		Analysis Time..: 22:32	MDL.....: 0.028	
Chromium	**1.7 B,J**	**2.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJEQ31CA**
		Dilution Factor: 1		Analysis Time..: 22:32	MDL.....: 0.23	
Lead	**0.18 B**	**1.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJEQ31AH**
		Dilution Factor: 1		Analysis Time..: 22:32	MDL.....: 0.077	
Antimony	ND	2.0	ug/L	SW846 6020	07/07-07/08/04	GJEQ31AE
		Dilution Factor: 1		Analysis Time..: 22:32	MDL.....: 0.15	
Selenium	**2.4 B**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJEQ31AJ**
		Dilution Factor: 1		Analysis Time..: 22:32	MDL.....: 0.16	
Thallium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJEQ31AL
		Dilution Factor: 1		Analysis Time..: 22:32	MDL.....: 0.047	
Prep Batch #...: 4177616						
Aluminum	**58 B,J**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQ31A4**
		Dilution Factor: 1		Analysis Time..: 00:57	MDL.....: 20	
Barium	**61 J**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJEQ31A5**
		Dilution Factor: 1		Analysis Time..: 21:39	MDL.....: 0.37	
Beryllium	**0.64 B,J**	**5.0**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQ31A6**
		Dilution Factor: 1		Analysis Time..: 00:57	MDL.....: 0.41	
Calcium	**28000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQ31CG**
		Dilution Factor: 1		Analysis Time..: 00:57	MDL.....: 76	
Cobalt	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJEQ31CD
		Dilution Factor: 1		Analysis Time..: 21:39	MDL.....: 0.67	

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X

TOTAL Metals

Lot-Sample #...: D4F160246-003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	20	ug/L	SW846 6010B	07/01-07/08/04	GJEQ31A7
		Dilution Factor: 1		Analysis Time..: 21:39	MDL.....: 0.97	
Iron	**22 B**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQ31A8**
		Dilution Factor: 1		Analysis Time..: 00:57	MDL.....: 19	
Potassium	**6500**	**3000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQ31CJ**
		Dilution Factor: 1		Analysis Time..: 00:57	MDL.....: 460	
Magnesium	**24000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQ31CH**
		Dilution Factor: 1		Analysis Time..: 00:57	MDL.....: 27	
Manganese	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJEQ31A9
		Dilution Factor: 1		Analysis Time..: 21:39	MDL.....: 0.54	
Molybdenum	**8.7 B**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJEQ31CE**
		Dilution Factor: 1		Analysis Time..: 21:39	MDL.....: 2.3	
Sodium	**47000**	**5000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQ31CK**
		Dilution Factor: 1		Analysis Time..: 00:57	MDL.....: 1100	
Nickel	ND	40	ug/L	SW846 6010B	07/01-07/08/04	GJEQ31AA
		Dilution Factor: 1		Analysis Time..: 21:39	MDL.....: 4.2	
Tin	ND	100	ug/L	SW846 6010B	07/01-07/08/04	GJEQ31CF
		Dilution Factor: 1		Analysis Time..: 21:39	MDL.....: 5.0	
Vanadium	**48**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJEQ31AC**
		Dilution Factor: 1		Analysis Time..: 21:39	MDL.....: 2.6	
Zinc	ND	20	ug/L	SW846 6010B	07/01-07/08/04	GJEQ31AD
		Dilution Factor: 1		Analysis Time..: 21:39	MDL.....: 7.1	

Prep Batch #...: 4182444

Mercury	**0.089 B,J**	**0.20**	**ug/L**	**SW846 7470A**	**06/30-07/13/04**	**GJEQ31CC**
		Dilution Factor: 1		Analysis Time..: 09:39	MDL.....: 0.025	

NOTE(S):

B Estimated re[illegible] Result is less than RL.

J Method bla[illegible] [illegible]tamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-G

TOTAL Metals

Lot-Sample #...: D4F160246-004 Matrix.....: WATER
Date Sampled...: 06/15/04 11:20 Date Received..: 06/16/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4177601						
Silver	ND	5.0	ug/L	SW846 6020	07/07-07/08/04	GJEQ51AK
		Dilution Factor: 1		Analysis Time..: 22:36	MDL.....: 0.047	
Arsenic	**2.7 B**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJEQ51AF**
		Dilution Factor: 1		Analysis Time..: 22:36	MDL.....: 0.094	
Cadmium	**0.035 B**	**1.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJEQ51AG**
		Dilution Factor: 1		Analysis Time..: 22:36	MDL.....: 0.028	
Chromium	**3.4 J**	**2.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJEQ51CA**
		Dilution Factor: 1		Analysis Time..: 22:36	MDL.....: 0.23	
Lead	**1.4**	**1.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJEQ51AH**
		Dilution Factor: 1		Analysis Time..: 22:36	MDL.....: 0.077	
Antimony	ND	2.0	ug/L	SW846 6020	07/07-07/08/04	GJEQ51AE
		Dilution Factor: 1		Analysis Time..: 22:36	MDL.....: 0.15	
Selenium	**4.5 B**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJEQ51AJ**
		Dilution Factor: 1		Analysis Time..: 22:36	MDL.....: 0.16	
Thallium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJEQ51AL
		Dilution Factor: 1		Analysis Time..: 22:36	MDL.....: 0.047	
Prep Batch #...: 4177616						
Aluminum	**100 J**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQ51A4**
		Dilution Factor: 1		Analysis Time..: 01:02	MDL.....: 20	
Barium	**32 J**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJEQ51A5**
		Dilution Factor: 1		Analysis Time..: 21:54	MDL.....: 0.37	
Beryllium	**0.61 B,J**	**5.0**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQ51A6**
		Dilution Factor: 1		Analysis Time..: 01:02	MDL.....: 0.41	
Calcium	**52000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQ51CG**
		Dilution Factor: 1		Analysis Time..: 01:02	MDL.....: 76	
Cobalt	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJEQ51CD
		Dilution Factor: 1		Analysis Time..: 21:54	MDL.....: 0.67	

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-G

TOTAL Metals

Lot-Sample #...: D4F160246-004 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	**8.1 B**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJEQ51A7**
		Dilution Factor: 1		Analysis Time..: 21:54	MDL.....: 0.97	
Iron	**110**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQ51A8**
		Dilution Factor: 1		Analysis Time..: 01:02	MDL.....: 19	
Potassium	**8500**	**3000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQ51CJ**
		Dilution Factor: 1		Analysis Time..: 01:02	MDL.....: 460	
Magnesium	**50000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQ51CH**
		Dilution Factor: 1		Analysis Time..: 01:02	MDL.....: 27	
Manganese	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJEQ51A9
		Dilution Factor: 1		Analysis Time..: 21:54	MDL.....: 0.54	
Molybdenum	**2.3 B**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJEQ51CE**
		Dilution Factor: 1		Analysis Time..: 21:54	MDL.....: 2.3	
Sodium	**53000**	**5000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJEQ51CK**
		Dilution Factor: 1		Analysis Time..: 01:02	MDL.....: 1100	
Nickel	ND	40	ug/L	SW846 6010B	07/01-07/08/04	GJEQ51AA
		Dilution Factor: 1		Analysis Time..: 21:54	MDL.....: 4.2	
Tin	ND	100	ug/L	SW846 6010B	07/01-07/08/04	GJEQ51CF
		Dilution Factor: 1		Analysis Time..: 21:54	MDL.....: 5.0	
Vanadium	**17**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJEQ51AC**
		Dilution Factor: 1		Analysis Time..: 21:54	MDL.....: 2.6	
Zinc	**28**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJEQ51AD**
		Dilution Factor: 1		Analysis Time..: 21:54	MDL.....: 7.1	

Prep Batch #...: 4182444

Mercury	**0.11 B,J**	**0.20**	**ug/L**	**SW846 7470A**	**06/30-07/13/04**	**GJEQ51CC**
		Dilution Factor: 1		Analysis Time..: 09:41	MDL.....: 0.025	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X-EB

TOTAL Metals

Lot-Sample #...: D4F160246-005 **Matrix.....:** WATER
Date Sampled...: 06/15/04 10:00 **Date Received..:** 06/16/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4177601						
Silver	ND	5.0	ug/L	SW846 6020	07/07-07/08/04	GJERC1AK
		Dilution Factor: 1		Analysis Time..: 22:40	MDL.....: 0.047	
Arsenic	ND	5.0	ug/L	SW846 6020	07/07-07/08/04	GJERC1AF
		Dilution Factor: 1		Analysis Time..: 22:40	MDL.....: 0.094	
Cadmium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJERC1AG
		Dilution Factor: 1		Analysis Time..: 22:40	MDL.....: 0.028	
Chromium	**0.54 B,J**	**2.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJERC1CA**
		Dilution Factor: 1		Analysis Time..: 22:40	MDL.....: 0.23	
Lead	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJERC1AH
		Dilution Factor: 1		Analysis Time..: 22:40	MDL.....: 0.077	
Antimony	ND	2.0	ug/L	SW846 6020	07/07-07/08/04	GJERC1AE
		Dilution Factor: 1		Analysis Time..: 22:40	MDL.....: 0.15	
Selenium	ND	5.0	ug/L	SW846 6020	07/07-07/08/04	GJERC1AJ
		Dilution Factor: 1		Analysis Time..: 22:40	MDL.....: 0.16	
Thallium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJERC1AL
		Dilution Factor: 1		Analysis Time..: 22:40	MDL.....: 0.047	
Prep Batch #...: 4177616						
Aluminum	**53 B,J**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERC1A4**
		Dilution Factor: 1		Analysis Time..: 01:07	MDL.....: 20	
Barium	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJERC1A5
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 0.37	
Beryllium	**0.54 B,J**	**5.0**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERC1A6**
		Dilution Factor: 1		Analysis Time..: 01:07	MDL.....: 0.41	
Calcium	**100 B**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERC1CG**
		Dilution Factor: 1		Analysis Time..: 01:07	MDL.....: 76	
Cobalt	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJERC1CD
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 0.67	

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X-EB

TOTAL Metals

Lot-Sample #...: D4F160246-005 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	20	ug/L	SW846 6010B	07/01-07/08/04	GJERC1A7
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 0.97	
Iron	ND	100	ug/L	SW846 6010B	07/01-07/11/04	GJERC1A8
		Dilution Factor: 1		Analysis Time..: 01:07	MDL.....: 19	
Potassium	ND	3000	ug/L	SW846 6010B	07/01-07/11/04	GJERC1CJ
		Dilution Factor: 1		Analysis Time..: 01:07	MDL.....: 460	
Magnesium	**43 B**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERC1CH**
		Dilution Factor: 1		Analysis Time..: 01:07	MDL.....: 27	
Manganese	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJERC1A9
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 0.54	
Molybdenum	ND	20	ug/L	SW846 6010B	07/01-07/08/04	GJERC1CE
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 2.3	
Sodium	ND	5000	ug/L	SW846 6010B	07/01-07/11/04	GJERC1CK
		Dilution Factor: 1		Analysis Time..: 01:07	MDL.....: 1100	
Nickel	ND	40	ug/L	SW846 6010B	07/01-07/08/04	GJERC1AA
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 4.2	
Tin	ND	100	ug/L	SW846 6010B	07/01-07/08/04	GJERC1CF
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 5.0	
Vanadium	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJERC1AC
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 2.6	
Zinc	ND	20	ug/L	SW846 6010B	07/01-07/08/04	GJERC1AD
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 7.1	

Prep Batch #...: 4182444

Mercury	**0.085 B,J**	**0.20**	**ug/L**	**SW846 7470A**	**06/30-07/13/04**	**GJERC1CC**
		Dilution Factor: 1		Analysis Time..: 09:43	MDL.....: 0.025	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-H

TOTAL Metals

Lot-Sample #...: D4F160246-006 **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:45 **Date Received..:** 06/16/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4177601						
Silver	ND	5.0	ug/L	SW846 6020	07/07-07/08/04	GJERE1AK
		Dilution Factor: 1		Analysis Time..: 22:51	MDL.....: 0.047	
Arsenic	**3.3 B**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJERE1AF**
		Dilution Factor: 1		Analysis Time..: 22:51	MDL.....: 0.094	
Cadmium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJERE1AG
		Dilution Factor: 1		Analysis Time..: 22:51	MDL.....: 0.028	
Chromium	**2.7 J**	**2.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJERE1CA**
		Dilution Factor: 1		Analysis Time..: 22:51	MDL.....: 0.23	
Lead	**0.88 B**	**1.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJERE1AH**
		Dilution Factor: 1		Analysis Time..: 22:51	MDL.....: 0.077	
Antimony	ND	2.0	ug/L	SW846 6020	07/07-07/08/04	GJERE1AE
		Dilution Factor: 1		Analysis Time..: 22:51	MDL.....: 0.15	
Selenium	**6.7**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJERE1AJ**
		Dilution Factor: 1		Analysis Time..: 22:51	MDL.....: 0.16	
Thallium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJERE1AL
		Dilution Factor: 1		Analysis Time..: 22:51	MDL.....: 0.047	
Prep Batch #...: 4177616						
Aluminum	**68 B,J**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERE1A4**
		Dilution Factor: 1		Analysis Time..: 01:21	MDL.....: 20	
Barium	**31 J**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJERE1A5**
		Dilution Factor: 1		Analysis Time..: 22:04	MDL.....: 0.37	
Beryllium	**0.68 B,J**	**5.0**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERE1A6**
		Dilution Factor: 1		Analysis Time..: 01:21	MDL.....: 0.41	
Calcium	**43000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERE1CG**
		Dilution Factor: 1		Analysis Time..: 01:21	MDL.....: 76	
Cobalt	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJERE1CD
		Dilution Factor: 1		Analysis Time..: 22:04	MDL.....: 0.67	

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-H

TOTAL Metals

Lot-Sampl #...: D4F160246-006 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	**2.5 B**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJERE1A7**
		Dilution Factor: 1		Analysis Time..: 22:04	MDL.....: 0.97	
Iron	**150**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERE1A8**
		Dilution Factor: 1		Analysis Time..: 01:21	MDL.....: 19	
Potassium	**7600**	**3000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERE1CJ**
		Dilution Factor: 1		Analysis Time..: 01:21	MDL.....: 460	
Magnesium	**41000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERE1CH**
		Dilution Factor: 1		Analysis Time..: 01:21	MDL.....: 27	
Manganese	**4.2 B**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJERE1A9**
		Dilution Factor: 1		Analysis Time..: 22:04	MDL.....: 0.54	
Molybdenum	**2.3 B**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJERE1CE**
		Dilution Factor: 1		Analysis Time..: 22:04	MDL.....: 2.3	
Sodium	**57000**	**5000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERE1CK**
		Dilution Factor: 1		Analysis Time..: 01:21	MDL.....: 1100	
Nickel	ND	40	ug/L	SW846 6010B	07/01-07/08/04	GJERE1AA
		Dilution Factor: 1		Analysis Time..: 22:04	MDL.....: 4.2	
Tin	ND	100	ug/L	SW846 6010B	07/01-07/08/04	GJERE1CF
		Dilution Factor: 1		Analysis Time..: 22:04	MDL.....: 5.0	
Vanadium	**20**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJERE1AC**
		Dilution Factor: 1		Analysis Time..: 22:04	MDL.....: 2.6	
Zinc	**32**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJERE1AD**
		Dilution Factor: 1		Analysis Time..: 22:04	MDL.....: 7.1	

Prep Batch #...: 4182444

Mercury	**0.089 B,J**	**0.20**	**ug/L**	**SW846 7470A**	**06/30-07/13/04**	**GJERE1CC**
		Dilution Factor: 1		Analysis Time..: 09:44	MDL.....: 0.025	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-T

TOTAL Metals

Lot-Sample #...: D4F160246-007 **Matrix.....:** WATER
Date Sampled...: 06/15/04 13:00 **Date Received..:** 06/16/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4177601						
Silver	ND	5.0	ug/L	SW846 6020	07/07-07/08/04	GJERG1AK
		Dilution Factor: 1		Analysis Time..: 22:55	MDL.....: 0.047	
Arsenic	**4.7 B**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJERG1AF**
		Dilution Factor: 1		Analysis Time..: 22:55	MDL.....: 0.094	
Cadmium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJERG1AG
		Dilution Factor: 1		Analysis Time..: 22:55	MDL.....: 0.028	
Chromium	**1.6 B,J**	**2.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJERG1CA**
		Dilution Factor: 1		Analysis Time..: 22:55	MDL.....: 0.23	
Lead	**0.11 B**	**1.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJERG1AH**
		Dilution Factor: 1		Analysis Time..: 22:55	MDL.....: 0.077	
Antimony	ND	2.0	ug/L	SW846 6020	07/07-07/08/04	GJERG1AE
		Dilution Factor: 1		Analysis Time..: 22:55	MDL.....: 0.15	
Selenium	**6.2**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJERG1AJ**
		Dilution Factor: 1		Analysis Time..: 22:55	MDL.....: 0.16	
Thallium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJERG1AL
		Dilution Factor: 1		Analysis Time..: 22:55	MDL.....: 0.047	
Prep Batch #...: 4177616						
Aluminum	**62 B,J**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERG1A4**
		Dilution Factor: 1		Analysis Time..: 01:26	MDL.....: 20	
Barium	**29 J**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJERG1A5**
		Dilution Factor: 1		Analysis Time..: 22:09	MDL.....: 0.37	
Beryllium	**0.61 B,J**	**5.0**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERG1A6**
		Dilution Factor: 1		Analysis Time..: 01:26	MDL.....: 0.41	
Calcium	**44000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERG1CG**
		Dilution Factor: 1		Analysis Time..: 01:26	MDL.....: 76	
Cobalt	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJERG1CD
		Dilution Factor: 1		Analysis Time..: 22:09	MDL.....: 0.67	

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-T

TOTAL Metals

Lot-Sample #...: D4F160246-007 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	**1.0 B**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJERG1A7**
		Dilution Factor: 1		Analysis Time..: 22:09	MDL.....: 0.97	
Iron	**53 B**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERG1A8**
		Dilution Factor: 1		Analysis Time..: 01:26	MDL.....: 19	
Potassium	**7000**	**3000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERG1CJ**
		Dilution Factor: 1		Analysis Time..: 01:26	MDL.....: 460	
Magnesium	**41000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERG1CH**
		Dilution Factor: 1		Analysis Time..: 01:26	MDL.....: 27	
Manganese	**1.6 B**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJERG1A9**
		Dilution Factor: 1		Analysis Time..: 22:09	MDL.....: 0.54	
Molybdenum	**4.6 B**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJERG1CE**
		Dilution Factor: 1		Analysis Time..: 22:09	MDL.....: 2.3	
Sodium	**54000**	**5000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERG1CK**
		Dilution Factor: 1		Analysis Time..: 01:26	MDL.....: 1100	
Nickel	ND	40	ug/L	SW846 6010B	07/01-07/08/04	GJERG1AA
		Dilution Factor: 1		Analysis Time..: 22:09	MDL.....: 4.2	
Tin	ND	100	ug/L	SW846 6010B	07/01-07/08/04	GJERG1CF
		Dilution Factor: 1		Analysis Time..: 22:09	MDL.....: 5.0	
Vanadium	**30**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJERG1AC**
		Dilution Factor: 1		Analysis Time..: 22:09	MDL.....: 2.6	
Zinc	ND	20	ug/L	SW846 6010B	07/01-07/08/04	GJERG1AD
		Dilution Factor: 1		Analysis Time..: 22:09	MDL.....: 7.1	

Prep Batch #...: 4182444

Mercury	**0.086 B,J**	**0.20**	**ug/L**	**SW846 7470A**	**06/30-07/13/04**	**GJERG1CC**
		Dilution Factor: 1		Analysis Time..: 09:46	MDL.....: 0.025	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-C

TOTAL Metals

Lot-Sample #...: D4F160246-008 **Matrix.....:** WATER
Date Sampled...: 06/15/04 14:30 **Date Received..:** 06/16/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4177601						
Silver	ND	5.0	ug/L	SW846 6020	07/07-07/08/04	GJERH1AK
		Dilution Factor: 1		Analysis Time..: 22:58	MDL.....: 0.047	
Arsenic	**5.3**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJERH1AF**
		Dilution Factor: 1		Analysis Time..: 22:58	MDL.....: 0.094	
Cadmium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJERH1AG
		Dilution Factor: 1		Analysis Time..: 22:58	MDL.....: 0.028	
Chromium	**1.3 B,J**	**2.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJERH1CA**
		Dilution Factor: 1		Analysis Time..: 22:58	MDL.....: 0.23	
Lead	**0.11 B**	**1.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJERH1AH**
		Dilution Factor: 1		Analysis Time..: 22:58	MDL.....: 0.077	
Antimony	ND	2.0	ug/L	SW846 6020	07/07-07/08/04	GJERH1AE
		Dilution Factor: 1		Analysis Time..: 22:58	MDL.....: 0.15	
Selenium	**0.85 B**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJERH1AJ**
		Dilution Factor: 1		Analysis Time..: 22:58	MDL.....: 0.16	
Thallium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJERH1AL
		Dilution Factor: 1		Analysis Time..: 22:58	MDL.....: 0.047	
Prep Batch #...: 4177616						
Zinc	ND	20	ug/L	SW846 6010B	07/01-07/08/04	GJERH1AD
		Dilution Factor: 1		Analysis Time..: 22:14	MDL.....: 7.1	
Aluminum	**60 B,J**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERH1A4**
		Dilution Factor: 1		Analysis Time..: 01:31	MDL.....: 20	
Barium	**45 J**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJERH1A5**
		Dilution Factor: 1		Analysis Time..: 22:14	MDL.....: 0.37	
Beryllium	**0.68 B,J**	**5.0**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERH1A6**
		Dilution Factor: 1		Analysis Time..: 01:31	MDL.....: 0.41	
Calcium	**31000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERH1CG**
		Dilution Factor: 1		Analysis Time..: 01:31	MDL.....: 76	

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-C

TOTAL Metals

Lot-Sample #...: D4F160246-008 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJERH1CD
		Dilution Factor: 1		Analysis Time..: 22:14	MDL.....: 0.67	
Copper	ND	20	ug/L	SW846 6010B	07/01-07/08/04	GJERH1A7
		Dilution Factor: 1		Analysis Time..: 22:14	MDL.....: 0.97	
Iron	**21 B**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERH1A8**
		Dilution Factor: 1		Analysis Time..: 01:31	MDL.....: 19	
Potassium	**6300**	**3000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERH1CJ**
		Dilution Factor: 1		Analysis Time..: 01:31	MDL.....: 460	
Magnesium	**30000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERH1CH**
		Dilution Factor: 1		Analysis Time..: 01:31	MDL.....: 27	
Manganese	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJERH1A9
		Dilution Factor: 1		Analysis Time..: 22:14	MDL.....: 0.54	
Molybdenum	**3.8 B**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJERH1CE**
		Dilution Factor: 1		Analysis Time..: 22:14	MDL.....: 2.3	
Sodium	**50000**	**5000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJERH1CK**
		Dilution Factor: 1		Analysis Time..: 01:31	MDL.....: 1100	
Nickel	ND	40	ug/L	SW846 6010B	07/01-07/08/04	GJERH1AA
		Dilution Factor: 1		Analysis Time..: 22:14	MDL.....: 4.2	
Tin	ND	100	ug/L	SW846 6010B	07/01-07/08/04	GJERH1CF
		Dilution Factor: 1		Analysis Time..: 22:14	MDL.....: 5.0	
Vanadium	**40**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJERH1AC**
		Dilution Factor: 1		Analysis Time..: 22:14	MDL.....: 2.6	

Prep Batch #...: 4182444

Mercury	**0.079 B,J**	**0.20**	**ug/L**	**SW846 7470A**	**06/30-07/13/04**	**GJERH1CC**
		Dilution Factor: 1		Analysis Time..: 09:48	MDL.....: 0.025	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D

TOTAL Metals

Lot-Sample #...: D4F170353-001 **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4177601						
Silver	ND	5.0	ug/L	SW846 6020	07/07-07/08/04	GJH7K1A8
		Dilution Factor: 1		Analysis Time..: 23:02	MDL.....: 0.047	
Arsenic	**4.6 B**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH7K1A4**
		Dilution Factor: 1		Analysis Time..: 23:02	MDL.....: 0.094	
Cadmium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJH7K1A5
		Dilution Factor: 1		Analysis Time..: 23:02	MDL.....: 0.028	
Chromium	**0.78 B,J**	**2.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH7K1CA**
		Dilution Factor: 1		Analysis Time..: 23:02	MDL.....: 0.23	
Lead	**0.14 B**	**1.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH7K1A6**
		Dilution Factor: 1		Analysis Time..: 23:02	MDL.....: 0.077	
Antimony	ND	2.0	ug/L	SW846 6020	07/07-07/08/04	GJH7K1A3
		Dilution Factor: 1		Analysis Time..: 23:02	MDL.....: 0.15	
Selenium	**0.52 B**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH7K1A7**
		Dilution Factor: 1		Analysis Time..: 23:02	MDL.....: 0.16	
Thallium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJH7K1A9
		Dilution Factor: 1		Analysis Time..: 23:02	MDL.....: 0.047	
Prep Batch #...: 4177616						
Aluminum	**57 B,J**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH7K1AR**
		Dilution Factor: 1		Analysis Time..: 01:36	MDL.....: 20	
Barium	**88 J**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH7K1AT**
		Dilution Factor: 1		Analysis Time..: 22:19	MDL.....: 0.37	
Beryllium	**0.60 B,J**	**5.0**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH7K1AU**
		Dilution Factor: 1		Analysis Time..: 01:36	MDL.....: 0.41	
Calcium	**33000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH7K1CG**
		Dilution Factor: 1		Analysis Time..: 01:36	MDL.....: 76	
Cobalt	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJH7K1CD
		Dilution Factor: 1		Analysis Time..: 22:19	MDL.....: 0.67	

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D

TOTAL Metals

Lot-Sample #...: D4F170353-001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	**1.0 B**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH7K1AV**
		Dilution Factor: 1		Analysis Time..: 22:19	MDL.....: 0.97	
Iron	**43 B**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH7K1AW**
		Dilution Factor: 1		Analysis Time..: 01:36	MDL.....: 19	
Potassium	**6500**	**3000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH7K1CJ**
		Dilution Factor: 1		Analysis Time..: 01:36	MDL.....: 460	
Magnesium	**33000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH7K1CH**
		Dilution Factor: 1		Analysis Time..: 01:36	MDL.....: 27	
Manganese	**1.4 B**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH7K1AX**
		Dilution Factor: 1		Analysis Time..: 22:19	MDL.....: 0.54	
Molybdenum	**2.5 B**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH7K1CE**
		Dilution Factor: 1		Analysis Time..: 22:19	MDL.....: 2.3	
Sodium	**50000**	**5000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH7K1CK**
		Dilution Factor: 1		Analysis Time..: 01:36	MDL.....: 1100	
Nickel	ND	40	ug/L	SW846 6010B	07/01-07/08/04	GJH7K1A0
		Dilution Factor: 1		Analysis Time..: 22:19	MDL.....: 4.2	
Tin	ND	100	ug/L	SW846 6010B	07/01-07/08/04	GJH7K1CF
		Dilution Factor: 1		Analysis Time..: 22:19	MDL.....: 5.0	
Vanadium	**37**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH7K1A1**
		Dilution Factor: 1		Analysis Time..: 22:19	MDL.....: 2.6	
Zinc	ND	20	ug/L	SW846 6010B	07/01-07/08/04	GJH7K1A2
		Dilution Factor: 1		Analysis Time..: 22:19	MDL.....: 7.1	

Prep Batch #...: 4182444

Mercury	**0.090 B,J**	**0.20**	**ug/L**	**SW846 7470A**	**06/30-07/13/04**	**GJH7K1CC**
		Dilution Factor: 1		Analysis Time..: 09:49	MDL.....: 0.025	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-U

TOTAL Metals

Lot-Sample #...: D4F170353-002 Matrix.....: WATER
Date Sampled...: 06/16/04 09:40 Date Received..: 06/17/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4177601						
Silver	ND	5.0	ug/L	SW846 6020	07/07-07/08/04	GJH781AK
		Dilution Factor: 1		Analysis Time..: 23:28	MDL.....: 0.047	
Arsenic	**4.7 B**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH781AF**
		Dilution Factor: 1		Analysis Time..: 23:28	MDL.....: 0.094	
Cadmium	**0.12 B**	**1.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH781AG**
		Dilution Factor: 1		Analysis Time..: 23:28	MDL.....: 0.028	
Chromium	**1.4 B,J**	**2.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH781CA**
		Dilution Factor: 1		Analysis Time..: 23:28	MDL.....: 0.23	
Lead	**0.24 B**	**1.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH781AH**
		Dilution Factor: 1		Analysis Time..: 23:28	MDL.....: 0.077	
Antimony	ND	2.0	ug/L	SW846 6020	07/07-07/08/04	GJH781AE
		Dilution Factor: 1		Analysis Time..: 23:28	MDL.....: 0.15	
Selenium	**5.9**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH781AJ**
		Dilution Factor: 1		Analysis Time..: 23:28	MDL.....: 0.16	
Thallium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJH781AL
		Dilution Factor: 1		Analysis Time..: 23:28	MDL.....: 0.047	
Prep Batch #...: 4177616						
Aluminum	**71 B,J**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH781A4**
		Dilution Factor: 1		Analysis Time..: 01:55	MDL.....: 20	
Barium	**28 J**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH781A5**
		Dilution Factor: 1		Analysis Time..: 22:39	MDL.....: 0.37	
Beryllium	**0.69 B,J**	**5.0**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH781A6**
		Dilution Factor: 1		Analysis Time..: 01:55	MDL.....: 0.41	
Calcium	**47000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH781CG**
		Dilution Factor: 1		Analysis Time..: 01:55	MDL.....: 76	
Cobalt	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJH781CD
		Dilution Factor: 1		Analysis Time..: 22:39	MDL.....: 0.67	

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-U

TOTAL Metals

Lot-Sample #...: D4F170353-002 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	20	ug/L	SW846 6010B	07/01-07/08/04	GJH781A7
		Dilution Factor: 1		Analysis Time..: 22:39	MDL.....: 0.97	
Iron	**27 B**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH781A8**
		Dilution Factor: 1		Analysis Time..: 01:55	MDL.....: 19	
Potassium	**7100**	**3000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH781CJ**
		Dilution Factor: 1		Analysis Time..: 01:55	MDL.....: 460	
Magnesium	**41000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH781CH**
		Dilution Factor: 1		Analysis Time..: 01:55	MDL.....: 27	
Manganese	**1.0 B**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH781A9**
		Dilution Factor: 1		Analysis Time..: 22:39	MDL.....: 0.54	
Molybdenum	**4.7 B**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH781CE**
		Dilution Factor: 1		Analysis Time..: 22:39	MDL.....: 2.3	
Sodium	**55000**	**5000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH781CK**
		Dilution Factor: 1		Analysis Time..: 01:55	MDL.....: 1100	
Nickel	ND	40	ug/L	SW846 6010B	07/01-07/08/04	GJH781AA
		Dilution Factor: 1		Analysis Time..: 22:39	MDL.....: 4.2	
Tin	ND	100	ug/L	SW846 6010B	07/01-07/08/04	GJH781CF
		Dilution Factor: 1		Analysis Time..: 22:39	MDL.....: 5.0	
Vanadium	**30**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH781AC**
		Dilution Factor: 1		Analysis Time..: 22:39	MDL.....: 2.6	
Zinc	ND	20	ug/L	SW846 6010B	07/01-07/08/04	GJH781AD
		Dilution Factor: 1		Analysis Time..: 22:39	MDL.....: 7.1	

Prep Batch #...: 4182444

Mercury	**0.090 B,J**	**0.20**	**ug/L**	**SW846 7470A**	**06/30-07/13/04**	**GJH781CC**
		Dilution Factor: 1		Analysis Time..: 09:58	MDL.....: 0.025	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-E

TOTAL Metals

Lot-Sample #...: D4F170353-003 **Matrix.....:** WATER
Date Sampled...: 06/16/04 13:00 **Date Received..:** 06/17/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4177601						
Silver	ND	5.0	ug/L	SW846 6020	07/07-07/08/04	GJH8D1AK
		Dilution Factor: 1		Analysis Time..: 23:32	MDL.....: 0.047	
Arsenic	**2.6 B**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH8D1AF**
		Dilution Factor: 1		Analysis Time..: 23:32	MDL.....: 0.094	
Cadmium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJH8D1AG
		Dilution Factor: 1		Analysis Time..: 23:32	MDL.....: 0.028	
Chromium	**3.7 J**	**2.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH8D1CA**
		Dilution Factor: 1		Analysis Time..: 23:32	MDL.....: 0.23	
Lead	**0.60 B**	**1.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH8D1AH**
		Dilution Factor: 1		Analysis Time..: 23:32	MDL.....: 0.077	
Antimony	ND	2.0	ug/L	SW846 6020	07/07-07/08/04	GJH8D1AE
		Dilution Factor: 1		Analysis Time..: 23:32	MDL.....: 0.15	
Selenium	**5.1**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH8D1AJ**
		Dilution Factor: 1		Analysis Time..: 23:32	MDL.....: 0.16	
Thallium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJH8D1AL
		Dilution Factor: 1		Analysis Time..: 23:32	MDL.....: 0.047	
Prep Batch #...: 4177616						
Aluminum	**51 B,J**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8D1A4**
		Dilution Factor: 1		Analysis Time..: 02:00	MDL.....: 20	
Barium	**47 J**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH8D1A5**
		Dilution Factor: 1		Analysis Time..: 22:54	MDL.....: 0.37	
Beryllium	**0.65 B,J**	**5.0**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8D1A6**
		Dilution Factor: 1		Analysis Time..: 02:00	MDL.....: 0.41	
Calcium	**56000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8D1CG**
		Dilution Factor: 1		Analysis Time..: 02:00	MDL.....: 76	
Cobalt	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJH8D1CD
		Dilution Factor: 1		Analysis Time..: 22:54	MDL.....: 0.67	

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-E

TOTAL Metals

Lot-Sample #...: D4F170353-003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	**1.2 B**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH8D1A7**
		Dilution Factor: 1		Analysis Time..: 22:54	MDL.....: 0.97	
Iron	**31 B**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8D1A8**
		Dilution Factor: 1		Analysis Time..: 02:00	MDL.....: 19	
Potassium	**8700**	**3000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8D1CJ**
		Dilution Factor: 1		Analysis Time..: 02:00	MDL.....: 460	
Magnesium	**52000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8D1CH**
		Dilution Factor: 1		Analysis Time..: 02:00	MDL.....: 27	
Manganese	**0.64 B**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH8D1A9**
		Dilution Factor: 1		Analysis Time..: 22:54	MDL.....: 0.54	
Molybdenum	ND	20	ug/L	SW846 6010B	07/01-07/08/04	GJH8D1CE
		Dilution Factor: 1		Analysis Time..: 22:54	MDL.....: 2.3	
Sodium	**66000**	**5000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8D1CK**
		Dilution Factor: 1		Analysis Time..: 02:00	MDL.....: 1100	
Nickel	ND	40	ug/L	SW846 6010B	07/01-07/08/04	GJH8D1AA
		Dilution Factor: 1		Analysis Time..: 22:54	MDL.....: 4.2	
Tin	ND	100	ug/L	SW846 6010B	07/01-07/08/04	GJH8D1CF
		Dilution Factor: 1		Analysis Time..: 22:54	MDL.....: 5.0	
Vanadium	**17**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH8D1AC**
		Dilution Factor: 1		Analysis Time..: 22:54	MDL.....: 2.6	
Zinc	**19 B**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH8D1AD**
		Dilution Factor: 1		Analysis Time..: 22:54	MDL.....: 7.1	

Prep Batch #...: 4182444

Mercury	**0.085 B,J**	**0.20**	**ug/L**	**SW846 7470A**	**06/30-07/13/04**	**GJH8D1CC**
		Dilution Factor: 1		Analysis Time..: 09:59	MDL.....: 0.025	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-B

TOTAL Metals

Lot-Sample #...: D4F170353-004 **Matrix.....:** WATER
Date Sampled...: 06/16/04 08:30 **Date Received..:** 06/17/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4177601						
Silver	ND	5.0	ug/L	SW846 6020	07/07-07/08/04	GJH8F1AK
		Dilution Factor: 1		Analysis Time..: 23:36	MDL.....: 0.047	
Arsenic	**4.7 B**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH8F1AF**
		Dilution Factor: 1		Analysis Time..: 23:36	MDL.....: 0.094	
Cadmium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJH8F1AG
		Dilution Factor: 1		Analysis Time..: 23:36	MDL.....: 0.028	
Chromium	**1.5 B,J**	**2.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH8F1CA**
		Dilution Factor: 1		Analysis Time..: 23:36	MDL.....: 0.23	
Lead	**0.24 B**	**1.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH8F1AH**
		Dilution Factor: 1		Analysis Time..: 23:36	MDL.....: 0.077	
Antimony	ND	2.0	ug/L	SW846 6020	07/07-07/08/04	GJH8F1AE
		Dilution Factor: 1		Analysis Time..: 23:36	MDL.....: 0.15	
Selenium	**5.9**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH8F1AJ**
		Dilution Factor: 1		Analysis Time..: 23:36	MDL.....: 0.16	
Thallium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJH8F1AL
		Dilution Factor: 1		Analysis Time..: 23:36	MDL.....: 0.047	
Prep Batch #...: 4177616						
Aluminum	**71 B,J**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8F1A4**
		Dilution Factor: 1		Analysis Time..: 02:04	MDL.....: 20	
Barium	**27 J**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH8F1A5**
		Dilution Factor: 1		Analysis Time..: 22:59	MDL.....: 0.37	
Beryllium	**0.71 B,J**	**5.0**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8F1A6**
		Dilution Factor: 1		Analysis Time..: 02:04	MDL.....: 0.41	
Calcium	**42000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8F1CG**
		Dilution Factor: 1		Analysis Time..: 02:04	MDL.....: 76	
Cobalt	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJH8F1CD
		Dilution Factor: 1		Analysis Time..: 22:59	MDL.....: 0.67	

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-B

TOTAL Metals

Lot-Sample #...: D4F170353-004 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	4.5 B	20	ug/L	SW846 6010B	07/01-07/08/04	GJH8F1A7
		Dilution Factor: 1		Analysis Time..: 22:59	MDL.....: 0.97	
Iron	32 B	100	ug/L	SW846 6010B	07/01-07/11/04	GJH8F1A8
		Dilution Factor: 1		Analysis Time..: 02:04	MDL.....: 19	
Potassium	7700	3000	ug/L	SW846 6010B	07/01-07/11/04	GJH8F1CJ
		Dilution Factor: 1		Analysis Time..: 02:04	MDL.....: 460	
Magnesium	41000	200	ug/L	SW846 6010B	07/01-07/11/04	GJH8F1CH
		Dilution Factor: 1		Analysis Time..: 02:04	MDL.....: 27	
Manganese	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJH8F1A9
		Dilution Factor: 1		Analysis Time..: 22:59	MDL.....: 0.54	
Molybdenum	4.0 B	20	ug/L	SW846 6010B	07/01-07/08/04	GJH8F1CE
		Dilution Factor: 1		Analysis Time..: 22:59	MDL.....: 2.3	
Sodium	61000	5000	ug/L	SW846 6010B	07/01-07/11/04	GJH8F1CK
		Dilution Factor: 1		Analysis Time..: 02:04	MDL.....: 1100	
Nickel	ND	40	ug/L	SW846 6010B	07/01-07/08/04	GJH8F1AA
		Dilution Factor: 1		Analysis Time..: 22:59	MDL.....: 4.2	
Tin	ND	100	ug/L	SW846 6010B	07/01-07/08/04	GJH8F1CF
		Dilution Factor: 1		Analysis Time..: 22:59	MDL.....: 5.0	
Vanadium	28	10	ug/L	SW846 6010B	07/01-07/08/04	GJH8F1AC
		Dilution Factor: 1		Analysis Time..: 22:59	MDL.....: 2.6	
Zinc	ND	20	ug/L	SW846 6010B	07/01-07/08/04	GJH8F1AD
		Dilution Factor: 1		Analysis Time..: 22:59	MDL.....: 7.1	

Prep Batch #...: 4182444

Mercury	0.078 B,J	0.20	ug/L	SW846 7470A	06/30-07/13/04	GJH8F1CC
		Dilution Factor: 1		Analysis Time..: 10:01	MDL.....: 0.025	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-A

TOTAL Metals

Lot-Sample #...: D4F170353-005 **Matrix.....:** WATER
Date Sampled...: 06/16/04 11:50 **Date Received..:** 06/17/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4177601						
Silver	ND	5.0	ug/L	SW846 6020	07/07-07/08/04	GJH8G1AK
		Dilution Factor: 1		Analysis Time..: 23:39	MDL.....: 0.047	
Arsenic	**5.7**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH8G1AF**
		Dilution Factor: 1		Analysis Time..: 23:39	MDL.....: 0.094	
Cadmium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJH8G1AG
		Dilution Factor: 1		Analysis Time..: 23:39	MDL.....: 0.028	
Chromium	**2.5 J**	**2.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH8G1CA**
		Dilution Factor: 1		Analysis Time..: 23:39	MDL.....: 0.23	
Lead	**0.63 B**	**1.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH8G1AH**
		Dilution Factor: 1		Analysis Time..: 23:39	MDL.....: 0.077	
Antimony	ND	2.0	ug/L	SW846 6020	07/07-07/08/04	GJH8G1AE
		Dilution Factor: 1		Analysis Time..: 23:39	MDL.....: 0.15	
Selenium	**5.1**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH8G1AJ**
		Dilution Factor: 1		Analysis Time..: 23:39	MDL.....: 0.16	
Thallium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJH8G1AL
		Dilution Factor: 1		Analysis Time..: 23:39	MDL.....: 0.047	
Prep Batch #...: 4177616						
Aluminum	**71 B,J**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8G1A4**
		Dilution Factor: 1		Analysis Time..: 02:19	MDL.....: 20	
Barium	**32 J**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH8G1A5**
		Dilution Factor: 1		Analysis Time..: 23:04	MDL.....: 0.37	
Beryllium	**0.65 B,J**	**5.0**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8G1A6**
		Dilution Factor: 1		Analysis Time..: 02:19	MDL.....: 0.41	
Calcium	**34000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8G1CG**
		Dilution Factor: 1		Analysis Time..: 02:19	MDL.....: 76	
Cobalt	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJH8G1CD
		Dilution Factor: 1		Analysis Time..: 23:04	MDL.....: 0.67	

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-A

TOTAL Metals

Lot-Sample #...: D4F170353-005 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	**1.8 B**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH8G1A7**
		Dilution Factor: 1		Analysis Time..: 23:04	MDL.....: 0.97	
Iron	**88 B**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8G1A8**
		Dilution Factor: 1		Analysis Time..: 02:19	MDL.....: 19	
Potassium	**6800**	**3000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8G1CJ**
		Dilution Factor: 1		Analysis Time..: 02:19	MDL.....: 460	
Magnesium	**33000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8G1CH**
		Dilution Factor: 1		Analysis Time..: 02:19	MDL.....: 27	
Manganese	**5.7 B**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH8G1A9**
		Dilution Factor: 1		Analysis Time..: 23:04	MDL.....: 0.54	
Molybdenum	**3.9 B**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH8G1CE**
		Dilution Factor: 1		Analysis Time..: 23:04	MDL.....: 2.3	
Sodium	**51000**	**5000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8G1CK**
		Dilution Factor: 1		Analysis Time..: 02:19	MDL.....: 1100	
Nickel	ND	40	ug/L	SW846 6010B	07/01-07/08/04	GJH8G1AA
		Dilution Factor: 1		Analysis Time..: 23:04	MDL.....: 4.2	
Tin	ND	100	ug/L	SW846 6010B	07/01-07/08/04	GJH8G1CF
		Dilution Factor: 1		Analysis Time..: 23:04	MDL.....: 5.0	
Vanadium	**35**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH8G1AC**
		Dilution Factor: 1		Analysis Time..: 23:04	MDL.....: 2.6	
Zinc	ND	20	ug/L	SW846 6010B	07/01-07/08/04	GJH8G1AD
		Dilution Factor: 1		Analysis Time..: 23:04	MDL.....: 7.1	

Prep Batch #...: 4182444

Mercury	**0.085 B,J**	**0.20**	**ug/L**	**SW846 7470A**	**06/30-07/13/04**	**GJH8G1CC**
		Dilution Factor: 1		Analysis Time..: 10:03	MDL.....: 0.025	

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D1

TOTAL Metals

Lot-Sample #...: D4F170353-006 **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:10 **Date Received..:** 06/17/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4177601						
Silver	ND	5.0	ug/L	SW846 6020	07/07-07/08/04	GJH8H1AK
		Dilution Factor: 1		Analysis Time..: 23:43	MDL.....: 0.047	
Arsenic	**4.5 B**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH8H1AF**
		Dilution Factor: 1		Analysis Time..: 23:43	MDL.....: 0.094	
Cadmium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJH8H1AG
		Dilution Factor: 1		Analysis Time..: 23:43	MDL.....: 0.028	
Chromium	**0.75 B,J**	**2.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH8H1CA**
		Dilution Factor: 1		Analysis Time..: 23:43	MDL.....: 0.23	
Lead	**0.29 B**	**1.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH8H1AH**
		Dilution Factor: 1		Analysis Time..: 23:43	MDL.....: 0.077	
Antimony	ND	2.0	ug/L	SW846 6020	07/07-07/08/04	GJH8H1AE
		Dilution Factor: 1		Analysis Time..: 23:43	MDL.....: 0.15	
Selenium	**0.38 B**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH8H1AJ**
		Dilution Factor: 1		Analysis Time..: 23:43	MDL.....: 0.16	
Thallium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJH8H1AL
		Dilution Factor: 1		Analysis Time..: 23:43	MDL.....: 0.047	
Prep Batch #...: 4177616						
Aluminum	**60 B,J**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8H1A4**
		Dilution Factor: 1		Analysis Time..: 02:24	MDL.....: 20	
Barium	**90 J**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH8H1A5**
		Dilution Factor: 1		Analysis Time..: 23:09	MDL.....: 0.37	
Beryllium	**0.60 B,J**	**5.0**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8H1A6**
		Dilution Factor: 1		Analysis Time..: 02:24	MDL.....: 0.41	
Calcium	**33000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8H1CG**
		Dilution Factor: 1		Analysis Time..: 02:24	MDL.....: 76	
Cobalt	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJH8H1CD
		Dilution Factor: 1		Analysis Time..: 23:09	MDL.....: 0.67	

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US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D1

TOTAL Metals

Lot Sample #...: D4F170353-006 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	**1.2 B**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH8H1A7**
		Dilution Factor: 1		Analysis Time..: 23:09	MDL.....: 0.97	
Iron	**39 B**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8H1A8**
		Dilution Factor: 1		Analysis Time..: 02:24	MDL.....: 19	
Potassium	**6700**	**3000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8H1CJ**
		Dilution Factor: 1		Analysis Time..: 02:24	MDL.....: 460	
Magnesium	**33000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8H1CH**
		Dilution Factor: 1		Analysis Time..: 02:24	MDL.....: 27	
Manganese	**2.0 B**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH8H1A9**
		Dilution Factor: 1		Analysis Time..: 23:09	MDL.....: 0.54	
Molybdenum	ND	20	ug/L	SW846 6010B	07/01-07/08/04	GJH8H1CE
		Dilution Factor: 1		Analysis Time..: 23:09	MDL.....: 2.3	
Sodium	**51000**	**5000**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8H1CK**
		Dilution Factor: 1		Analysis Time..: 02:24	MDL.....: 1100	
Nickel	ND	40	ug/L	SW846 6010B	07/01-07/08/04	GJH8H1AA
		Dilution Factor: 1		Analysis Time..: 23:09	MDL.....: 4.2	
Tin	ND	100	ug/L	SW846 6010B	07/01-07/08/04	GJH8H1CF
		Dilution Factor: 1		Analysis Time..: 23:09	MDL.....: 5.0	
Vanadium	**38**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH8H1AC**
		Dilution Factor: 1		Analysis Time..: 23:09	MDL.....: 2.6	
Zinc	**170**	**20**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH8H1AD**
		Dilution Factor: 1		Analysis Time..: 23:09	MDL.....: 7.1	

Prep Batch #...: 4182444

Mercury	**0.10 B,J**	**0.20**	**ug/L**	**SW846 7470A**	**06/30-07/13/04**	**GJH8H1CC**
		Dilution Factor: 1		Analysis Time..: 10:04	MDL.....: 0.025	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-F

TOTAL Metals

Lot-Sample #...: D4F170353-007 **Matrix.....:** WATER
Date Sampled...: 06/16/04 11:55 **Date Received..:** 06/17/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4177601						
Silver	ND	5.0	ug/L	SW846 6020	07/07-07/08/04	GJH8M1AK
		Dilution Factor: 1		Analysis Time..: 23:47	MDL.....: 0.047	
Arsenic	**3.2 B**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH8M1AF**
		Dilution Factor: 1		Analysis Time..: 23:47	MDL.....: 0.094	
Cadmium	**0.071 B**	**1.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH8M1AG**
		Dilution Factor: 1		Analysis Time..: 23:47	MDL.....: 0.028	
Chromium	**2.8 J**	**2.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH8M1CA**
		Dilution Factor: 1		Analysis Time..: 23:47	MDL.....: 0.23	
Lead	**0.26 B**	**1.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH8M1AH**
		Dilution Factor: 1		Analysis Time..: 23:47	MDL.....: 0.077	
Antimony	ND	2.0	ug/L	SW846 6020	07/07-07/08/04	GJH8M1AE
		Dilution Factor: 1		Analysis Time..: 23:47	MDL.....: 0.15	
Selenium	**6.2**	**5.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJH8M1AJ**
		Dilution Factor: 1		Analysis Time..: 23:47	MDL.....: 0.16	
Thallium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJH8M1AL
		Dilution Factor: 1		Analysis Time..: 23:47	MDL.....: 0.047	
Prep Batch #...: 4177616						
Aluminum	**59 B,J**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8M1A4**
		Dilution Factor: 1		Analysis Time..: 02:29	MDL.....: 20	
Barium	**38 J**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJH8M1A5**
		Dilution Factor: 1		Analysis Time..: 23:14	MDL.....: 0.37	
Beryllium	**0.64 B,J**	**5.0**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8M1A6**
		Dilution Factor: 1		Analysis Time..: 02:29	MDL.....: 0.41	
Calcium	**51000**	**200**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJH8M1CG**
		Dilution Factor: 1		Analysis Time..: 02:29	MDL.....: 76	
Cobalt	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJH8M1CD
		Dilution Factor: 1		Analysis Time..: 23:14	MDL.....: 0.67	

(Continued on next page)

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-F

TOTAL Metals

Lot-Sample #...: D4F170353-007 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	14 B	20	ug/L	SW846 6010B	07/01-07/08/04	GJH8M1A7
		Dilution Factor: 1		Analysis Time..: 23:14	MDL.....: 0.97	
Iron	53 B	100	ug/L	SW846 6010B	07/01-07/11/04	GJH8M1A8
		Dilution Factor: 1		Analysis Time..: 02:29	MDL.....: 19	
Potassium	8500	3000	ug/L	SW846 6010B	07/01-07/11/04	GJH8M1CJ
		Dilution Factor: 1		Analysis Time..: 02:29	MDL.....: 460	
Magnesium	48000	200	ug/L	SW846 6010B	07/01-07/11/04	GJH8M1CH
		Dilution Factor: 1		Analysis Time..: 02:29	MDL.....: 27	
Manganese	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJH8M1A9
		Dilution Factor: 1		Analysis Time..: 23:14	MDL.....: 0.54	
Molybdenum	2.7 B	20	ug/L	SW846 6010B	07/01-07/08/04	GJH8M1CE
		Dilution Factor: 1		Analysis Time..: 23:14	MDL.....: 2.3	
Sodium	55000	5000	ug/L	SW846 6010B	07/01-07/11/04	GJH8M1CK
		Dilution Factor: 1		Analysis Time..: 02:29	MDL.....: 1100	
Nickel	ND	40	ug/L	SW846 6010B	07/01-07/08/04	GJH8M1AA
		Dilution Factor: 1		Analysis Time..: 23:14	MDL.....: 4.2	
Tin	ND	100	ug/L	SW846 6010B	07/01-07/08/04	GJH8M1CF
		Dilution Factor: 1		Analysis Time..: 23:14	MDL.....: 5.0	
Vanadium	17	10	ug/L	SW846 6010B	07/01-07/08/04	GJH8M1AC
		Dilution Factor: 1		Analysis Time..: 23:14	MDL.....: 2.6	
Zinc	19 B	20	ug/L	SW846 6010B	07/01-07/08/04	GJH8M1AD
		Dilution Factor: 1		Analysis Time..: 23:14	MDL.....: 7.1	
Prep Batch #...: 4182444						
Mercury	0.10 B,J	0.20	ug/L	SW846 7470A	06/30-07/13/04	GJH8M1CC
		Dilution Factor: 1		Analysis Time..: 10:06	MDL.....: 0.025	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-V

General Chemistry

Lot-Sample #...: D4F150189-001 **Work Order #...:** GJANT **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:20 **Date Received..:** 06/15/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	**0.0033 B**	**0.010**	**mg/L**	**SW846 9012A**	**06/23-06/24/04**	**4176289**
		Dilution Factor: 1		Analysis Time..: 12:00	MDL.....: 0.0028	
Nitrate	**3.9**	**0.10**	**mg/L**	**MCAWW 353.2**	**06/15/04**	**4176647**
		Dilution Factor: 1		Analysis Time..: 20:45	MDL.....: 0.021	
Nitrite	**0.0049 B,J**	**0.010**	**mg/L**	**MCAWW 354.1**	**06/15/04**	**4167619**
		Dilution Factor: 1		Analysis Time..: 20:45	MDL.....: 0.0013	
Sulfate	**220 Q**	**25**	**mg/L**	**MCAWW 300.0A**	**06/24/04**	**4177315**
		Dilution Factor: 5		Analysis Time..: 19:29	MDL.....: 1.0	
Total Dissolved Solids	**760**	**10**	**mg/L**	**MCAWW 160.1**	**06/17/04**	**4169410**
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 3.6	
Total Organic Carbon	**0.70 B**	**1.0**	**mg/L**	**SW846 9060**	**07/09/04**	**4194197**
		Dilution Factor: 1		Analysis Time..: 21:00	MDL.....: 0.50	
Total Organic Halogens	ND IC	20	ug/L	SW846 9020B	07/19-07/20/04	4203354
		Dilution Factor: 2		Analysis Time..: 12:00	MDL.....: 15	
Total Sulfide	ND	4.0	mg/L	SW846 9030B/9034	06/21/04	4173462
		Dilution Factor: 1		Analysis Time..: 11:00	MDL.....: 0.49	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

IC Diluted due to high inorganic chloride.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-S

General Chemistry

Lot-Sample #...: D4F150189-003 **Work Order #...:** GJAP9 **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:25 **Date Received..:** 06/15/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	06/23-06/24/04	4176289
		Dilution Factor: 1		Analysis Time..: 12:00	MDL.....: 0.0028	
Nitrate	**0.94**	**0.10**	**mg/L**	**MCAWW 353.2**	**06/15/04**	**4176647**
		Dilution Factor: 1		Analysis Time..: 20:45	MDL.....: 0.021	
Nitrite	**0.0042 B,J**	**0.010**	**mg/L**	**MCAWW 354.1**	**06/15/04**	**4167619**
		Dilution Factor: 1		Analysis Time..: 20:45	MDL.....: 0.0013	
Sulfate	**150 Q**	**25**	**mg/L**	**MCAWW 300.0A**	**06/24/04**	**4177315**
		Dilution Factor: 5		Analysis Time..: 20:03	MDL.....: 1.0	
Total Dissolved Solids	**540**	**10**	**mg/L**	**MCAWW 160.1**	**06/17/04**	**4169410**
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 3.6	
Total Organic Carbon	ND	1.0	mg/L	SW846 9060	07/09/04	4194197
		Dilution Factor: 1		Analysis Time..: 21:00	MDL.....: 0.50	
Total Organic Halogens	**16 B,IC**	**20**	**ug/L**	**SW846 9020B**	**07/19-07/20/04**	**4203354**
		Dilution Factor: 2		Analysis Time..: 12:00	MDL.....: 15	
Total Sulfide	ND	4.0	mg/L	SW846 9030B/9034	06/21/04	4173462
		Dilution Factor: 1		Analysis Time..: 11:00	MDL.....: 0.49	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

IC Diluted due to high inorganic chloride.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-W

General Chemistry

Lot-Sample #...: D4F160246-001 **Work Order #...:** GJEQC **Matrix.....:** WATER
Date Sampled...: 06/15/04 13:00 **Date Received..:** 06/16/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	06/23-06/24/04	4176289
		Dilution Factor: 1		Analysis Time..: 12:00	MDL.....: 0.0028	
Nitrate	**9.8**	**0.10**	**mg/L**	**MCAWW 353.2**	**06/16/04**	**4181369**
		Dilution Factor: 1		Analysis Time..: 18:00	MDL.....: 0.021	
Nitrite	**0.0061 B,J**	**0.010**	**mg/L**	**MCAWW 354.1**	**06/15-06/16/04**	**4168543**
		Dilution Factor: 1		Analysis Time..: 18:00	MDL.....: 0.0013	
Sulfate	**220 J,Q**	**25**	**mg/L**	**MCAWW 300.0A**	**06/28/04**	**4181299**
		Dilution Factor: 5		Analysis Time..: 21:50	MDL.....: 0.50	
Total Dissolved Solids	**700**	**10**	**mg/L**	**MCAWW 160.1**	**06/18/04**	**4170385**
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 3.6	
Total Organic Carbon	ND	1.0	mg/L	SW846 9060	07/13/04	4196189
		Dilution Factor: 1		Analysis Time..: 14:00	MDL.....: 0.50	
Total Organic Halogens	ND	10	ug/L	SW846 9020B	07/14/04	4198390
		Dilution Factor: 1		Analysis Time..: 17:00	MDL.....: 7.7	
Total Sulfide	ND	4.0	mg/L	SW846 9030B/9034	06/21/04	4173462
		Dilution Factor: 1		Analysis Time..: 11:00	MDL.....: 0.49	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-XX

General Chemistry

Lot-Sample #...: D4F160246-002 **Work Order #...:** GJEQW **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:30 **Date Received..:** 06/16/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	**0.0046 B**	**0.010**	**mg/L**	**SW846 9012A**	**06/23-06/24/04**	**4176289**
	Dilution Factor: 1			Analysis Time..: 12:00	MDL.....: 0.0028	
Nitrate	**1.6**	**0.10**	**mg/L**	**MCAWW 353.2**	**06/16/04**	**4176648**
	Dilution Factor: 1			Analysis Time..: 18:00	MDL.....: 0.021	
Nitrite	**0.0030 B,J**	**0.010**	**mg/L**	**MCAWW 354.1**	**06/16/04**	**4168543**
	Dilution Factor: 1			Analysis Time..: 18:00	MDL.....: 0.0013	
Sulfate	**48 J**	**5.0**	**mg/L**	**MCAWW 300.0A**	**06/28/04**	**4181299**
	Dilution Factor: 1			Analysis Time..: 22:26	MDL.....: 0.10	
Total Dissolved Solids	**300**	**10**	**mg/L**	**MCAWW 160.1**	**06/18/04**	**4170385**
	Dilution Factor: 1			Analysis Time..: 15:50	MDL.....: 3.6	
Total Organic Carbon	ND	1.0	mg/L	SW846 9060	07/13/04	4196189
	Dilution Factor: 1			Analysis Time..: 15:00	MDL.....: 0.50	
Total Organic Halogens	ND	10	ug/L	SW846 9020B	07/14/04	4198390
	Dilution Factor: 1			Analysis Time..: 17:00	MDL.....: 7.7	
Total Sulfide	ND	4.0	mg/L	SW846 9030B/9034	06/21/04	4173462
	Dilution Factor: 1			Analysis Time..: 11:00	MDL.....: 0.49	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X

General Chemistry

Lot-Sample #...: D4F160246-003 **Work Order #...:** GJEQ3 **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:15 **Date Received..:** 06/16/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	**0.0030 B**	**0.010**	**mg/L**	**SW846 9012A**	**06/23-06/24/04**	**4176289**
		Dilution Factor: 1		Analysis Time..: 12:00	MDL.....: 0.0028	
Nitrate	**1.5**	**0.10**	**mg/L**	**MCAWW 353.2**	**06/16/04**	**4176648**
		Dilution Factor: 1		Analysis Time..: 18:00	MDL.....: 0.021	
Nitrite	**0.0030 B,J**	**0.010**	**mg/L**	**MCAWW 354.1**	**06/16/04**	**4168543**
		Dilution Factor: 1		Analysis Time..: 18:00	MDL.....: 0.0013	
Sulfate	**48 J**	**5.0**	**mg/L**	**MCAWW 300.0A**	**06/28/04**	**4181299**
		Dilution Factor: 1		Analysis Time..: 23:02	MDL.....: 0.10	
Total Dissolved Solids	**310**	**10**	**mg/L**	**MCAWW 160.1**	**06/18/04**	**4170385**
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 3.6	
Total Organic Carbon	ND	1.0	mg/L	SW846 9060	07/13/04	4196189
		Dilution Factor: 1		Analysis Time..: 15:00	MDL.....: 0.50	
Total Organic Halogens	ND	10	ug/L	SW846 9020B	07/19/04	4203349
		Dilution Factor: 1		Analysis Time..: 12:00	MDL.....: 7.7	
Total Sulfide	ND	4.0	mg/L	SW846 9030B/9034	06/21/04	4173462
		Dilution Factor: 1		Analysis Time..: 11:00	MDL.....: 0.49	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-G

General Chemistry

Lot-Sample #...: D4F160246-004 **Work Order #...:** GJEQ5 **Matrix.....:** WATER
Date Sampled...: 06/15/04 11:20 **Date Received..:** 06/16/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	**0.0035 B**	**0.010**	**mg/L**	**SW846 9012A**	**06/23-06/24/04**	**4176289**
		Dilution Factor: 1		Analysis Time..: 12:00	MDL.....: 0.0028	
Nitrate	**1.6**	**0.10**	**mg/L**	**MCAWW 353.2**	**06/16/04**	**4176648**
		Dilution Factor: 1		Analysis Time..: 18:00	MDL.....: 0.021	
Nitrite	**0.0032 B,J**	**0.010**	**mg/L**	**MCAWW 354.1**	**06/16/04**	**4168543**
		Dilution Factor: 1		Analysis Time..: 18:00	MDL.....: 0.0013	
Sulfate	**140 J,Q**	**25**	**mg/L**	**MCAWW 300.0A**	**06/28-06/29/04**	**4181299**
		Dilution Factor: 5		Analysis Time..: 00:31	MDL.....: 0.50	
Total Dissolved Solids	**530**	**10**	**mg/L**	**MCAWW 160.1**	**06/18/04**	**4170385**
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 3.6	
Total Organic Carbon	ND	1.0	mg/L	SW846 9060	07/13/04	4196189
		Dilution Factor: 1		Analysis Time..: 15:00	MDL.....: 0.50	
Total Organic Halogens	ND	10	ug/L	SW846 9020B	07/19/04	4203349
		Dilution Factor: 1		Analysis Time..: 12:00	MDL.....: 7.7	
Total Sulfide	ND	4.0	mg/L	SW846 9030B/9034	06/21/04	4173462
		Dilution Factor: 1		Analysis Time..: 11:00	MDL.....: 0.49	

NOTE(S

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-X-EB

General Chemistry

Lot-Sample #...: D4F160246-005 **Work Order #...:** GJERC **Matrix.....:** WATER
Date Sampled...: 06/15/04 10:00 **Date Received..:** 06/16/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	**0.0082 B**	**0.010**	**mg/L**	**SW846 9012A**	**06/23-06/24/04**	**4176289**
	Dilution Factor: 1			Analysis Time..: 12:00	MDL.....: 0.0028	
Nitrate	ND	0.10	mg/L	MCAWW 353.2	06/16/04	4176648
	Dilution Factor: 1			Analysis Time..: 18:00	MDL.....: 0.021	
Nitrite	**0.0029 B,J**	**0.010**	**mg/L**	**MCAWW 354.1**	**06/16/04**	**4168543**
	Dilution Factor: 1			Analysis Time..: 18:00	MDL.....: 0.0013	
Sulfate	ND	5.0	mg/L	MCAWW 300.0A	06/28-06/29/04	4181299
	Dilution Factor: 1			Analysis Time..: 01:07	MDL.....: 0.10	
Total Dissolved Solids	ND	10	mg/L	MCAWW 160.1	06/18/04	4170385
	Dilution Factor: 1			Analysis Time..: 15:50	MDL.....: 3.6	
Total Organic Carbon	ND	1.0	mg/L	SW846 9060	07/13/04	4196189
	Dilution Factor: 1			Analysis Time..: 15:00	MDL.....: 0.50	
Total Organic Halogens	ND	10	ug/L	SW846 9020B	07/19/04	4203349
	Dilution Factor: 1			Analysis Time..: 12:00	MDL.....: 7.7	
Total Sulfide	ND	4.0	mg/L	SW846 9030B/9034	06/21/04	4173462
	Dilution Factor: 1			Analysis Time..: 11:00	MDL.....: 0.49	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-H

General Chemistry

Lot-Sample #...: D4F160246-006 **Work Order #...:** GJERE **Matrix.....:** WATER
Date Sampled...: 06/15/04 09:45 **Date Received..:** 06/16/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	06/23-06/24/04	4176289
		Dilution Factor: 1		Analysis Time..: 12:00	MDL.....: 0.0028	
Nitrate	**1.5**	**0.10**	**mg/L**	**MCAWW 353.2**	**06/16/04**	**4176648**
		Dilution Factor: 1		Analysis Time..: 18:00	MDL.....: 0.021	
Nitrite	**0.0038 B,J**	**0.010**	**mg/L**	**MCAWW 354.1**	**06/16/04**	**4168543**
		Dilution Factor: 1		Analysis Time..: 18:00	MDL.....: 0.0013	
Sulfate	**140 J,Q**	**25**	**mg/L**	**MCAWW 300.0A**	**06/28-06/29/04**	**4181299**
		Dilution Factor: 5		Analysis Time..: 01:43	MDL.....: 0.50	
Total Dissolved Solids	**490**	**10**	**mg/L**	**MCAWW 160.1**	**06/18/04**	**4170385**
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 3.6	
Total Organic Carbon	ND	1.0	mg/L	SW846 9060	07/13/04	4196189
		Dilution Factor: 1		Analysis Time..: 15:00	MDL.....: 0.50	
Total Organic Halogens	ND	10	ug/L	SW846 9020B	07/19/04	4203349
		Dilution Factor: 1		Analysis Time..: 12:00	MDL.....: 7.7	
Total Sulfide	ND	4.0	mg/L	SW846 9030B/9034	06/21/04	4173462
		Dilution Factor: 1		Analysis Time..: 11:00	MDL.....: 0.49	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-T

General Chemistry

Lot-Sample #...: D4F160246-007 **Work Order #...:** GJERG **Matrix.....:** WATER
Date Sampled...: 06/15/04 13:00 **Date Received..:** 06/16/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	06/23-06/24/04	4176289
		Dilution Factor: 1		Analysis Time..: 12:00	MDL.....: 0.0028	
Nitrate	**3.1**	**0.10**	**mg/L**	**MCAWW 353.2**	**06/16/04**	**4176648**
		Dilution Factor: 1		Analysis Time..: 18:00	MDL.....: 0.021	
Nitrite	**0.0037 B,J**	**0.010**	**mg/L**	**MCAWW 354.1**	**06/16/04**	**4168543**
		Dilution Factor: 1		Analysis Time..: 18:00	MDL.....: 0.0013	
Sulfate	**140 J,Q**	**25**	**mg/L**	**MCAWW 300.0A**	**06/28-06/29/04**	**4181299**
		Dilution Factor: 5		Analysis Time..: 02:37	MDL.....: 0.50	
Total Dissolved Solids	**480**	**10**	**mg/L**	**MCAWW 160.1**	**06/18/04**	**4170385**
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 3.6	
Total Organic Carbon	ND	1.0	mg/L	SW846 9060	07/13/04	4196189
		Dilution Factor: 1		Analysis Time..: 15:00	MDL.....: 0.50	
Total Organic Halogens	ND	10	ug/L	SW846 9020B	07/19/04	4203349
		Dilution Factor: 1		Analysis Time..: 12:00	MDL.....: 7.7	
Total Sulfide	ND	4.0	mg/L	SW846 9030B/9034	06/21/04	4173462
		Dilution Factor: 1		Analysis Time..: 11:00	MDL.....: 0.49	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-C

General Chemistry

Lot-Sample #...: D4F160246-008 Work Order #...: GJERH Matrix.....: WATER
Date Sampled...: 06/15/04 14:30 Date Received..: 06/16/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	06/23-06/24/04	4176289
		Dilution Factor: 1		Analysis Time..: 12:00	MDL.....: 0.0028	
Nitrate	**2.2**	**0.10**	**mg/L**	**MCAWW 353.2**	**06/16/04**	**4176648**
		Dilution Factor: 1		Analysis Time..: 18:00	MDL.....: 0.021	
Nitrite	**0.0023 B,J**	**0.010**	**mg/L**	**MCAWW 354.1**	**06/16/04**	**4168543**
		Dilution Factor: 1		Analysis Time..: 18:00	MDL.....: 0.0013	
Sulfate	**63 J,Q**	**25**	**mg/L**	**MCAWW 300.0A**	**06/28-06/29/04**	**4181299**
		Dilution Factor: 5		Analysis Time..: 04:06	MDL.....: 0.50	
Total Dissolved Solids	**350**	**10**	**mg/L**	**MCAWW 160.1**	**06/18/04**	**4170385**
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 3.6	
Total Organic Carbon	ND	1.0	mg/L	SW846 9060	07/13/04	4196189
		Dilution Factor: 1		Analysis Time..: 16:00	MDL.....: 0.50	
Total Organic Halogens	ND	10	ug/L	SW846 9020B	07/19/04	4203349
		Dilution Factor: 1		Analysis Time..: 12:00	MDL.....: 7.7	
Total Sulfide	ND	4.0	mg/L	SW846 9030B/9034	06/21/04	4173462
		Dilution Factor: 1		Analysis Time..: 11:00	MDL.....: 0.49	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D

General Chemistry

Lot-Sample #...: D4F170353-001 **Work Order #...:** GJH7K **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	06/23-06/24/04	4176289
		Dilution Factor: 1		Analysis Time..: 12:00	MDL.....: 0.0028	
Nitrate	**1.4**	**0.10**	**mg/L**	**MCAWW 353.2**	**06/17/04**	**4176650**
		Dilution Factor: 1		Analysis Time..: 20:30	MDL.....: 0.021	
Nitrite	**0.0076 B,J**	**0.010**	**mg/L**	**MCAWW 354.1**	**06/17/04**	**4169557**
		Dilution Factor: 1		Analysis Time..: 20:30	MDL.....: 0.0013	
Sulfate	**30**	**5.0**	**mg/L**	**MCAWW 300.0A**	**06/28/04**	**4181302**
		Dilution Factor: 1		Analysis Time..: 12:39	MDL.....: 0.10	
Total Dissolved Solids	**350**	**10**	**mg/L**	**MCAWW 160.1**	**06/21/04**	**4173477**
		Dilution Factor: 1		Analysis Time..: 17:45	MDL.....: 3.6	
Total Organic Carbon	ND	1.0	mg/L	SW846 9060	07/13/04	4196189
		Dilution Factor: 1		Analysis Time..: 16:00	MDL.....: 0.50	
Total Organic Halogens	**17**	**10**	**ug/L**	**SW846 9020B**	**07/13-07/14/04**	**4198368**
		Dilution Factor: 1		Analysis Time..: 10:00	MDL.....: 7.7	
Total Sulfide	ND	4.0	mg/L	SW846 9030B/9034	06/23/04	4175338
		Dilution Factor: 1		Analysis Time..: 07:40	MDL.....: 0.49	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-U

General Chemistry

Lot-Sample #...: D4F170353-002 **Work Order #...:** GJH78 **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:40 **Date Received..:** 06/17/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	06/23-06/24/04	4176289
		Dilution Factor: 1		Analysis Time..: 12:00	MDL.....: 0.0028	
Nitrate	**0.75**	**0.10**	**mg/L**	**MCAWW 353.2**	**06/17/04**	**4176650**
		Dilution Factor: 1		Analysis Time..: 20:30	MDL.....: 0.021	
Nitrite	**0.0031 B,J**	**0.010**	**mg/L**	**MCAWW 354.1**	**06/17/04**	**4169557**
		Dilution Factor: 1		Analysis Time..: 20:30	MDL.....: 0.0013	
Sulfate	**130 Q**	**25**	**mg/L**	**MCAWW 300.0A**	**06/28/04**	**4181302**
		Dilution Factor: 5		Analysis Time..: 14:55	MDL.....: 0.50	
Total Dissolved Solids	**460**	**10**	**mg/L**	**MCAWW 160.1**	**06/21/04**	**4173477**
		Dilution Factor: 1		Analysis Time..: 17:45	MDL.....: 3.6	
Total Organic Carbon	ND	1.0	mg/L	SW846 9060	07/13/04	4196189
		Dilution Factor: 1		Analysis Time..: 18:00	MDL.....: 0.50	
Total Organic Halogens	ND	10	ug/L	SW846 9020B	07/13-07/14/04	4198368
		Dilution Factor: 1		Analysis Time..: 16:00	MDL.....: 7.7	
Total Sulfide	ND	4.0	mg/L	SW846 9030B/9034	06/23/04	4175338
		Dilution Factor: 1		Analysis Time..: 07:40	MDL.....: 0.49	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-E

General Chemistry

Lot-Sample #...: D4F170353-003 **Work Order #...:** GJH8D **Matrix.....:** WATER
Date Sampled...: 06/16/04 13:00 **Date Received..:** 06/17/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	06/23-06/24/04	4176289
		Dilution Factor: 1		Analysis Time..: 12:00	MDL.....: 0.0028	
Nitrate	**1.7**	**0.10**	**mg/L**	**MCAWW 353.2**	**06/17/04**	**4176650**
		Dilution Factor: 1		Analysis Time..: 20:30	MDL.....: 0.021	
Nitrite	**0.0034 B,J**	**0.010**	**mg/L**	**MCAWW 354.1**	**06/17/04**	**4169557**
		Dilution Factor: 1		Analysis Time..: 20:30	MDL.....: 0.0013	
Sulfate	**97 Q**	**25**	**mg/L**	**MCAWW 300.0A**	**06/28/04**	**4181302**
		Dilution Factor: 5		Analysis Time..: 15:28	MDL.....: 0.50	
Total Dissolved Solids	**610**	**10**	**mg/L**	**MCAWW 160.1**	**06/21/04**	**4173477**
		Dilution Factor: 1		Analysis Time..: 17:45	MDL.....: 3.6	
Total Organic Carbon	ND	1.0	mg/L	SW846 9060	07/13/04	4196189
		Dilution Factor: 1		Analysis Time..: 18:00	MDL.....: 0.50	
Total Organic Halogens	**8.3 B**	**10**	**ug/L**	**SW846 9020B**	**07/13-07/14/04**	**4198368**
		Dilution Factor: 1		Analysis Time..: 16:00	MDL.....: 7.7	
Total Sulfide	ND	4.0	mg/L	SW846 9030B/9034	06/23/04	4175338
		Dilution Factor: 1		Analysis Time..: 07:40	MDL.....: 0.49	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-B

General Chemistry

Lot-Sample #...: D4F170353-004 **Work Order #...:** GJH8F **Matrix.....:** WATER
Date Sampled...: 06/16/04 08:30 **Date Received..:** 06/17/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	06/23-06/24/04	4176289
		Dilution Factor: 1		Analysis Time..: 12:00	MDL.....:	0.0028
Nitrate	**0.88**	**0.10**	**mg/L**	**MCAWW 353.2**	**06/17/04**	**4176650**
		Dilution Factor: 1		Analysis Time..: 20:30	MDL.....:	0.021
Nitrite	**0.0034 B,J**	**0.010**	**mg/L**	**MCAWW 354.1**	**06/17/04**	**4169557**
		Dilution Factor: 1		Analysis Time..: 20:30	MDL.....:	0.0013
Sulfate	**130 Q**	**25**	**mg/L**	**MCAWW 300.0A**	**06/28/04**	**4181302**
		Dilution Factor: 5		Analysis Time..: 16:02	MDL.....:	0.50
Total Dissolved Solids	**470**	**10**	**mg/L**	**MCAWW 160.1**	**06/21/04**	**4173477**
		Dilution Factor: 1		Analysis Time..: 17:45	MDL.....:	3.6
Total Organic Carbon	ND	1.0	mg/L	SW846 9060	07/13/04	4196189
		Dilution Factor: 1		Analysis Time..: 19:00	MDL.....:	0.50
Total Organic Halogens	ND	10	ug/L	SW846 9020B	07/13-07/14/04	4198368
		Dilution Factor: 1		Analysis Time..: 16:00	MDL.....:	7.7
Total Sulfide	ND	4.0	mg/L	SW846 9030B/9034	06/23/04	4175338
		Dilution Factor: 1		Analysis Time..: 07:40	MDL.....:	0.49

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-A

General Chemistry

Lot-Sample #...: D4F170353-005 **Work Order #...:** GJH8G **Matrix.....:** WATER
Date Sampled...: 06/16/04 11:50 **Date Received..:** 06/17/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	06/23-06/24/04	4176289
		Dilution Factor: 1		Analysis Time..: 12:00	MDL.....: 0.0028	
Nitrate	**1.4**	**0.10**	**mg/L**	**MCAWW 353.2**	**06/17/04**	**4176650**
		Dilution Factor: 1		Analysis Time..: 20:30	MDL.....: 0.021	
Nitrite	**0.0031 B,J**	**0.010**	**mg/L**	**MCAWW 354.1**	**06/17/04**	**4169557**
		Dilution Factor: 1		Analysis Time..: 20:30	MDL.....: 0.0013	
Sulfate	**90 Q**	**25**	**mg/L**	**MCAWW 300.0A**	**06/28/04**	**4181302**
		Dilution Factor: 5		Analysis Time..: 16:59	MDL.....: 0.50	
Total Dissolved Solids	**390**	**10**	**mg/L**	**MCAWW 160.1**	**06/21/04**	**4173477**
		Dilution Factor: 1		Analysis Time..: 17:45	MDL.....: 3.6	
Total Organic Carbon	ND	1.0	mg/L	SW846 9060	07/13/04	4196189
		Dilution Factor: 1		Analysis Time..: 19:00	MDL.....: 0.50	
Total Organic Halogens	ND	10	ug/L	SW846 9020B	07/13-07/14/04	4198368
		Dilution Factor: 1		Analysis Time..: 16:00	MDL.....: 7.7	
Total Sulfide	ND	4.0	mg/L	SW846 9030B/9034	06/23/04	4175338
		Dilution Factor: 1		Analysis Time..: 07:40	MDL.....: 0.49	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-D1

General Chemistry

Lot-Sample #...: D4F170353-006 **Work Order #...:** GJH8H **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:10 **Date Received..:** 06/17/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	06/23-06/24/04	4176289
		Dilution Factor: 1		Analysis Time..: 12:00	MDL.....: 0.0028	
Nitrate	**1.4**	**0.10**	**mg/L**	**MCAWW 353.2**	**06/17/04**	**4176650**
		Dilution Factor: 1		Analysis Time..: 20:30	MDL.....: 0.021	
Nitrite	**0.0031 B,J**	**0.010**	**mg/L**	**MCAWW 354.1**	**06/17/04**	**4169557**
		Dilution Factor: 1		Analysis Time..: 20:30	MDL.....: 0.0013	
Sulfate	**30**	**5.0**	**mg/L**	**MCAWW 300.0A**	**06/28/04**	**4181302**
		Dilution Factor: 1		Analysis Time..: 17:21	MDL.....: 0.10	
Total Dissolved Solids	**350**	**10**	**mg/L**	**MCAWW 160.1**	**06/21/04**	**4173477**
		Dilution Factor: 1		Analysis Time..: 17:45	MDL.....: 3.6	
Total Organic Carbon	ND	1.0	mg/L	SW846 9060	07/13/04	4196189
		Dilution Factor: 1		Analysis Time..: 19:00	MDL.....: 0.50	
Total Organic Halogens	ND	10	ug/L	SW846 9020B	07/13-07/14/04	4198368
		Dilution Factor: 1		Analysis Time..: 16:00	MDL.....: 7.7	
Total Sulfide	ND	4.0	mg/L	SW846 9030B/9034	06/23/04	4175338
		Dilution Factor: 1		Analysis Time..: 07:40	MDL.....: 0.49	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

US GEOLOGICAL SURVEY

Client Sample ID: CAFB-F

General Chemistry

Lot-Sample #...: D4F170353-007 **Work Order #...:** GJH8M **Matrix.....:** WATER
Date Sampled...: 06/16/04 11:55 **Date Received..:** 06/17/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	06/23-06/24/04	4176289
		Dilution Factor: 1		Analysis Time..: 12:00	MDL.....: 0.0028	
Nitrate	**1.2**	**0.10**	**mg/L**	**MCAWW 353.2**	**06/17/04**	**4176650**
		Dilution Factor: 1		Analysis Time..: 20:30	MDL.....: 0.021	
Nitrite	**0.0040 B,J**	**0.010**	**mg/L**	**MCAWW 354.1**	**06/17/04**	**4169557**
		Dilution Factor: 1		Analysis Time..: 20:30	MDL.....: 0.0013	
Sulfate	**130 Q**	**25**	**mg/L**	**MCAWW 300.0A**	**06/28/04**	**4181302**
		Dilution Factor: 5		Analysis Time..: 18:06	MDL.....: 0.50	
Total Dissolved Solids	**550**	**10**	**mg/L**	**MCAWW 160.1**	**06/21/04**	**4173477**
		Dilution Factor: 1		Analysis Time..: 17:45	MDL.....: 3.6	
Total Organic Carbon	**9.5**	**1.0**	**mg/L**	**SW846 9060**	**07/13/04**	**4196189**
		Dilution Factor: 1		Analysis Time..: 19:00	MDL.....: 0.50	
Total Organic Halogens	ND	10	ug/L	SW846 9020B	07/14/04	4198390
		Dilution Factor: 1		Analysis Time..: 17:00	MDL.....: 7.7	
Total Sulfide	ND	4.0	mg/L	SW846 9030B/9034	06/23/04	4175338
		Dilution Factor: 1		Analysis Time..: 07:40	MDL.....: 0.49	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

QC DATA ASSOCIATION SUMMARY

CANNON-4 : D4F150189

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	MCAWW 160.1		4169410	4174131
	WATER	MCAWW 353.2		4176647	
	WATER	MCAWW 354.1		4167619	4169119
	WATER	MCAWW 300.0A		4177315	4177208
	WATER	SW846 9060		4194197	4194148
	WATER	SW846 6020		4182583	4182304
	WATER	SW846 9020B		4203354	4203208
	WATER	SW846 7470A		4181230	4182098
	WATER	SW846 8082		4167450	
	WATER	SW846 8081A		4167449	
	WATER	SW846 8260B		4177179	4177186
	WATER	SW846 8270C		4168427	
	WATER	SW846 6010B		4177616	4177342
	WATER	SW846 9012A		4176289	4176199
	WATER	SW846 8151A		4167559	
	WATER	SW846 8280A		4173377	4173215
	WATER	SW846 8310		4167463	
	WATER	SW846 9030B/9034		4173462	
	WATER	SW846 8321A		4176194	4176133
002	WATER	SW846 8260B		4177179	4177186
003	WATER	MCAWW 160.1		4169410	4174131
	WATER	MCAWW 353.2		4176647	
	WATER	MCAWW 354.1		4167619	4169119
	WATER	MCAWW 300.0A		4177315	4177208
	WATER	SW846 9060		4194197	4194148
	WATER	SW846 6020		4182583	4182304
	WATER	SW846 9020B		4203354	4203208
	WATER	SW846 7470A		4181230	4182098
	WATER	SW846 8082		4167450	
	WATER	SW846 8081A		4167449	
	WATER	SW846 8260B		4177179	4177186
	WATER	SW846 8270C		4168427	
	WATER	SW846 6010B		4177616	4177342
	WATER	SW846 9012A		4176289	4176199
	WATER	SW846 8151A		4167559	
	WATER	SW846 8280A		4173377	4173215
	WATER	SW846 8310		4167463	
	WATER	SW846 9030B/9034		4173462	
	WATER	SW846 8321A		4176194	4176133

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

CANNON-4 : D4F160246

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	MCAWW 160.1		4170385	4174173
	WATER	MCAWW 353.2		4181369	
	WATER	MCAWW 354.1		4168543	4169112
	WATER	MCAWW 300.0A		4181299	4183159
	WATER	SW846 9060		4196189	4196129
	WATER	SW846 6020		4177601	4177329
	WATER	SW846 9020B		4198390	4203164
	WATER	SW846 7470A		4182444	4182229
	WATER	SW846 8082		4168413	
	WATER	SW846 8081A		4168385	
	WATER	SW846 8260B		4181517	4181338
	WATER	SW846 8270C		4168427	
	WATER	SW846 6010B		4177616	4177342
	WATER	SW846 9012A		4176289	4176199
	WATER	SW846 8151A		4169456	
	WATER	SW846 8280A		4174488	
	WATER	SW846 8310		4168422	
	WATER	SW846 9030B/9034		4173462	
	WATER	SW846 8321A		4176194	4176133
002	WATER	MCAWW 160.1		4170385	4174173
	WATER	MCAWW 353.2		4176648	
	WATER	MCAWW 354.1		4168543	4169112
	WATER	MCAWW 300.0A		4181299	4183159
	WATER	SW846 9060		4196189	4196129
	WATER	SW846 6020		4177601	4177329
	WATER	SW846 9020B		4198390	4203164
	WATER	SW846 7470A		4182444	4182229
	WATER	SW846 8082		4168413	
	WATER	SW846 8081A		4168385	
	WATER	SW846 8260B		4181517	4181338
	WATER	SW846 8270C		4168427	
	WATER	SW846 6010B		4177616	4177342
	WATER	SW846 9012A		4176289	4176199
	WATER	SW846 8151A		4169456	
	WATER	SW846 8280A		4174488	
	WATER	SW846 8310		4168422	
	WATER	SW846 9030B/9034		4173462	
	WATER	SW846 8321A		4176194	4176133
003	WATER	MCAWW 160.1		4170385	4174173
	WATER	MCAWW 353.2		4176648	
	WATER	MCAWW 354.1		4168543	4169112

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

CANNON-4 : D4F160246

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
003	WATER	MCAWW 300.0A		4181299	4183159
	WATER	SW846 9060		4196189	4196129
	WATER	SW846 6020		4177601	4177329
	WATER	SW846 9020B		4203349	4203208
	WATER	SW846 7470A		4182444	4182229
	WATER	SW846 8082		4168413	
	WATER	SW846 8081A		4168385	
	WATER	SW846 8260B		4181517	4181338
	WATER	SW846 8270C		4168427	
	WATER	SW846 6010B		4177616	4177342
	WATER	SW846 9012A		4176289	4176199
	WATER	SW846 8151A		4169456	
	WATER	SW846 8280A		4174488	
	WATER	SW846 8310		4168422	
	WATER	SW846 9030B/9034		4173462	
	WATER	SW846 8321A		4176194	4176133
004	WATER	MCAWW 160.1		4170385	4174173
	WATER	MCAWW 353.2		4176648	
	WATER	MCAWW 354.1		4168543	4169112
	WATER	MCAWW 300.0A		4181299	4183159
	WATER	SW846 9060		4196189	4196129
	WATER	SW846 6020		4177601	4177329
	WATER	SW846 9020B		4203349	4203208
	WATER	SW846 7470A		4182444	4182229
	WATER	SW846 8082		4168413	
	WATER	SW846 8081A		4168385	
	WATER	SW846 8260B		4181517	4181338
	WATER	SW846 8270C		4168427	
	WATER	SW846 6010B		4177616	4177342
	WATER	SW846 9012A		4176289	4176199
	WATER	SW846 8151A		4169456	
	WATER	SW846 8280A		4174488	
	WATER	SW846 8310		4168422	
	WATER	SW846 9030B/9034		4173462	
	WATER	SW846 8321A		4176194	4176133
005	WATER	MCAWW 160.1		4170385	4174173
	WATER	MCAWW 353.2		4176648	
	WATER	MCAWW 354.1		4168543	4169112
	WATER	MCAWW 300.0A		4181299	4183159
	WATER	SW846 9060		4196189	4196129
	WATER	SW846 6020		4177601	4177329

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

CANNON-4 : D4F160246

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
005	WATER	SW846 9020B		4203349	4203208
	WATER	SW846 7470A		4182444	4182229
	WATER	SW846 8082		4168413	
	WATER	SW846 8081A		4168385	
	WATER	SW846 8260B		4181517	4181338
	WATER	SW846 8270C		4168427	
	WATER	SW846 6010B		4177616	4177342
	WATER	SW846 9012A		4176289	4176199
	WATER	SW846 8151A		4169456	
	WATER	SW846 8280A		4174488	
	WATER	SW846 8310		4168422	
	WATER	SW846 9030B/9034		4173462	
	WATER	SW846 8321A		4176194	4176133
006	WATER	MCAWW 160.1		4170385	4174173
	WATER	MCAWW 353.2		4176648	
	WATER	MCAWW 354.1		4168543	4169112
	WATER	MCAWW 300.0A		4181299	4183159
	WATER	SW846 9060		4196189	4196129
	WATER	SW846 6020		4177601	4177329
	WATER	SW846 9020B		4203349	4203208
	WATER	SW846 7470A		4182444	4182229
	WATER	SW846 8082		4168413	
	WATER	SW846 8081A		4168385	
	WATER	SW846 8260B		4181517	4181338
	WATER	SW846 8270C		4168427	
	WATER	SW846 6010B		4177616	4177342
	WATER	SW846 9012A		4176289	4176199
	WATER	SW846 8151A		4169456	
	WATER	SW846 8280A		4174488	
	WATER	SW846 8310		4168422	
	WATER	SW846 9030B/9034		4173462	
	WATER	SW846 8321A		4176194	4176133
007	WATER	MCAWW 160.1		4170385	4174173
	WATER	MCAWW 353.2		4176648	
	WATER	MCAWW 354.1		4168543	4169112
	WATER	MCAWW 300.0A		4181299	4183159
	WATER	SW846 9060		4196189	4196129
	WATER	SW846 6020		4177601	4177329
	WATER	SW846 9020B		4203349	4203208
	WATER	SW846 7470A		4182444	4182229
	WATER	SW846 8082		4168413	

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

CANNON-4 : D4F160246

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
007	WATER	SW846 8081A		4168385	
	WATER	SW846 8260B		4181517	4181338
	WATER	SW846 8270C		4168427	
	WATER	SW846 6010B		4177616	4177342
	WATER	SW846 9012A		4176289	4176199
	WATER	SW846 8151A		4169456	
	WATER	SW846 8280A		4174488	
	WATER	SW846 8310		4168422	
	WATER	SW846 9030B/9034		4173462	
	WATER	SW846 8321A		4176194	4176133
008	WATER	MCAWW 160.1		4170385	4174173
	WATER	MCAWW 353.2		4176648	
	WATER	MCAWW 354.1		4168543	4169112
	WATER	MCAWW 300.0A		4181299	4183159
	WATER	SW846 9060		4196189	4196129
	WATER	SW846 6020		4177601	4177329
	WATER	SW846 9020B		4203349	4203208
	WATER	SW846 7470A		4182444	4182229
	WATER	SW846 8082		4168413	
	WATER	SW846 8081A		4168385	
	WATER	SW846 8260B		4181517	4181338
	WATER	SW846 8270C		4168427	
	WATER	SW846 6010B		4177616	4177342
	WATER	SW846 9012A		4176289	4176199
	WATER	SW846 8151A		4169456	
	WATER	SW846 8280A		4174488	
	WATER	SW846 8310		4168422	
	WATER	SW846 9030B/9034		4173462	
	WATER	SW846 8321A		4176194	4176133
009	WATER	SW846 8260B		4181517	4181338
001	WATER	MCAWW 160.1		4173477	4180145
	WATER	MCAWW 353.2		4176650	
	WATER	MCAWW 354.1		4169557	4174349
	WATER	MCAWW 300.0A		4181302	4183225
	WATER	SW846 9060		4196189	4196129
	WATER	SW846 6020		4177601	4177329
	WATER	SW846 9020B		4198368	4203164
	WATER	SW846 7470A		4182444	4182229
	WATER	SW846 8082		4170320	4170227
	WATER	SW846 8081A		4170303	4170210

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

CANNON-4 : D4F170353

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8260B		4181544	4181354
	WATER	SW846 8270C		4169513	4169304
	WATER	SW846 6010B		4177616	4177342
	WATER	SW846 9012A		4176289	4176199
	WATER	SW846 8151A		4170441	4170289
	WATER	SW846 8280A		4173377	4173215
	WATER	SW846 8310		4174278	4174185
	WATER	SW846 9030B/9034		4175338	4176072
	WATER	SW846 8321A		4182292	4182156
002	WATER	MCAWW 160.1		4173477	4180145
	WATER	MCAWW 353.2		4176650	
	WATER	MCAWW 354.1		4169557	4174349
	WATER	MCAWW 300.0A		4181302	4183225
	WATER	SW846 9060		4196189	4196129
	WATER	SW846 6020		4177601	4177329
	WATER	SW846 9020B		4198368	4203164
	WATER	SW846 7470A		4182444	4182229
	WATER	SW846 8082		4170320	4170227
	WATER	SW846 8081A		4170303	4170210
	WATER	SW846 8260B		4181544	4181354
	WATER	SW846 8270C		4169513	4169304
	WATER	SW846 6010B		4177616	4177342
	WATER	SW846 9012A		4176289	4176199
	WATER	SW846 8151A		4170441	4170289
	WATER	SW846 8280A		4173377	4173215
	WATER	SW846 8310		4174278	4174185
	WATER	SW846 9030B/9034		4175338	4176072
	WATER	SW846 8321A		4182292	4182156
003	WATER	MCAWW 160.1		4173477	4180145
	WATER	MCAWW 353.2		4176650	
	WATER	MCAWW 354.1		4169557	4174349
	WATER	MCAWW 300.0A		4181302	4183225
	WATER	SW846 9060		4196189	4196129
	WATER	SW846 6020		4177601	4177329
	WATER	SW846 9020B		4198368	4203164
	WATER	SW846 7470A		4182444	4182229
	WATER	SW846 8082		4170320	4170227
	WATER	SW846 8081A		4170303	4170210
	WATER	SW846 8260B		4181544	4181354
	WATER	SW846 8270C		4169513	4169304
	WATER	SW846 6010B		4177616	4177342

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

CANNON-4 : D4F170353

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
	WATER	SW846 9012A		4176289	4176199
	WATER	SW846 8151A		4170441	4170289
	WATER	SW846 8280A		4173377	4173215
	WATER	SW846 8310		4174278	4174185
	WATER	SW846 9030B/9034		4175338	4176072
	WATER	SW846 8321A		4182292	4182156
004	WATER	MCAWW 160.1		4173477	4180145
	WATER	MCAWW 353.2		4176650	
	WATER	MCAWW 354.1		4169557	4174349
	WATER	MCAWW 300.0A		4181302	4183225
	WATER	SW846 9060		4196189	4196129
	WATER	SW846 6020		4177601	4177329
	WATER	SW846 9020B		4198368	4203164
	WATER	SW846 7470A		4182444	4182229
	WATER	SW846 8082		4170320	4170227
	WATER	SW846 8081A		4170303	4170210
	WATER	SW846 8260B		4181544	4181354
	WATER	SW846 8270C		4169513	4169304
	WATER	SW846 6010B		4177616	4177342
	WATER	SW846 9012A		4176289	4176199
	WATER	SW846 8151A		4170441	4170289
	WATER	SW846 8280A		4173377	4173215
	WATER	SW846 8310		4174278	4174185
	WATER	SW846 9030B/9034		4175338	4176072
	WATER	SW846 8321A		4182292	4182156
005	WATER	MCAWW 160.1		4173477	4180145
	WATER	MCAWW 353.2		4176650	
	WATER	MCAWW 354.1		4169557	4174349
	WATER	MCAWW 300.0A		4181302	4183225
	WATER	SW846 9060		4196189	4196129
	WATER	SW846 6020		4177601	4177329
	WATER	SW846 9020B		4198368	4203164
	WATER	SW846 7470A		4182444	4182229
	WATER	SW846 8082		4170320	4170227
	WATER	SW846 8081A		4170303	4170210
	WATER	SW846 8260B		4181544	4181354
	WATER	SW846 8270C		4169513	4169304
	WATER	SW846 6010B		4177616	4177342
	WATER	SW846 9012A		4176289	4176199
	WATER	SW846 8151A		4170441	4170289
	WATER	SW846 8280A		4173377	4173215

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

CANNON-4 : D4F170353

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
005	WATER	SW846 8310		4174278	4174185
	WATER	SW846 9030B/9034		4175338	4176072
	WATER	SW846 8321A		4182292	4182156
006	WATER	MCAWW 160.1		4173477	4180145
	WATER	MCAWW 353.2		4176650	
	WATER	MCAWW 354.1		4169557	4174349
	WATER	MCAWW 300.0A		4181302	4183225
	WATER	SW846 9060		4196189	4196129
	WATER	SW846 6020		4177601	4177329
	WATER	SW846 9020B		4198368	4203164
	WATER	SW846 7470A		4182444	4182229
	WATER	SW846 8082		4170320	4170227
	WATER	SW846 8081A		4170303	4170210
	WATER	SW846 8260B		4181544	4181354
	WATER	SW846 8270C		4169513	4169304
	WATER	SW846 6010B		4177616	4177342
	WATER	SW846 9012A		4176289	4176199
	WATER	SW846 8151A		4170441	4170289
	WATER	SW846 8280A		4173377	4173215
	WATER	SW846 8310		4174278	4174185
	WATER	SW846 9030B/9034		4175338	4176072
	WATER	SW846 8321A		4182292	4182156
007	WATER	MCAWW 160.1		4173477	4180145
	WATER	MCAWW 353.2		4176650	
	WATER	MCAWW 354.1		4169557	4174349
	WATER	MCAWW 300.0A		4181302	4183225
	WATER	SW846 9060		4196189	4196129
	WATER	SW846 6020		4177601	4177329
	WATER	SW846 9020B		4198390	4203164
	WATER	SW846 7470A		4182444	4182229
	WATER	SW846 8082		4170320	4170227
	WATER	SW846 8081A		4170303	4170210
	WATER	SW846 8260B		4181544	4181354
	WATER	SW846 8270C		4169513	4169304
	WATER	SW846 6010B		4177616	4177342
	WATER	SW846 9012A		4176289	4176199
	WATER	SW846 8151A		4170441	4170289
	WATER	SW846 8280A		4173377	4173215
	WATER	SW846 8310		4174278	4174185
	WATER	SW846 9030B/9034		4175338	4176072
	WATER	SW846 8321A		4182292	4182156

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QC DATA ASSOCIATION SUMMARY

CANNON-4 : D4F170353

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
008	WATER	SW846 8260B		4181544	4181354

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJ2TT1AA **Matrix.....:** WATER
MB Lot-Sample #: D4F250000-179

Prep Date.....: 06/24/04 **Analysis Time..:** 11:30

Analysis Date..: 06/24/04 **Prep Batch #...:** 4177179
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Acetonitrile	ND	20	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone (MEK)	ND	5.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroprene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Allyl chloride	ND	2.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
1,4-Dioxane	ND	200	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Ethyl methacrylate	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Iodomethane	ND	1.0	ug/L	SW846 8260B
Isobutyl alcohol	ND	50	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJ2TT1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Methacrylonitrile	ND	10	ug/L	SW846 8260B
Methylene chloride	ND	5.0	ug/L	SW846 8260B
Methyl methacrylate	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Propionitrile	ND	20	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
Vinyl acetate	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(76 - 116)
1,2-Dichloroethane-d4	90	(59 - 129)
4-Bromofluorobenzene	97	(74 - 114)
Toluene-d8	107	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

US GEOLOGICAL SURVEY

Method Blank Report

GC/MS Volatiles

Lot-Sample #: D4F250000-179 B **Work Order #:** GJ2TT1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		1.8	M	14.695	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJ2TT1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F250000-179 GJ2TT1AD-LCSD
Prep Date.....: 06/24/04 **Analysis Date..:** 06/24/04
Prep Batch #...: 4177179 **Analysis Time..:** 10:44
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**113**	**(75 - 116)**			**SW846 8260B**
	114	**(75 - 116)**	**1.2**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**95**	**(77 - 117)**			**SW846 8260B**
	95	**(77 - 117)**	**0.17**	**(0-20)**	**SW846 8260B**
1,1-Dichloroethene	**105**	**(67 - 125)**			**SW846 8260B**
	101	**(67 - 125)**	**3.9**	**(0-20)**	**SW846 8260B**
Toluene	**99**	**(74 - 115)**			**SW846 8260B**
	99	**(74 - 115)**	**0.29**	**(0-20)**	**SW846 8260B**
Trichloroethene	**100**	**(80 - 123)**			**SW846 8260B**
	100	**(80 - 123)**	**0.080**	**(0-20)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(76 - 116)
	102	(76 - 116)
1,2-Dichloroethane-d4	88	(59 - 129)
	88	(59 - 129)
4-Bromofluorobenzene	93	(74 - 114)
	93	(74 - 114)
Toluene-d8	107	(76 - 116)
	106	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJ2TT1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F250000-179 GJ2TT1AD-LCSD
Prep Date.....: 06/24/04 **Analysis Date..:** 06/24/04
Prep Batch #...: 4177179 **Analysis Time..:** 10:44
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	**10.0**	**11.3**	**ug/L**	**113**		**SW846 8260B**
	10.0	**11.4**	**ug/L**	**114**	**1.2**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.48**	**ug/L**	**95**		**SW846 8260B**
	10.0	**9.47**	**ug/L**	**95**	**0.17**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**10.5**	**ug/L**	**105**		**SW846 8260B**
	10.0	**10.1**	**ug/L**	**101**	**3.9**	**SW846 8260B**
Toluene	**10.0**	**9.90**	**ug/L**	**99**		**SW846 8260B**
	10.0	**9.93**	**ug/L**	**99**	**0.29**	**SW846 8260B**
Trichloroethene	**10.0**	**10.0**	**ug/L**	**100**		**SW846 8260B**
	10.0	**10.0**	**ug/L**	**100**	**0.080**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(76 - 116)
	102	(76 - 116)
1,2-Dichloroethane-d4	88	(59 - 129)
	88	(59 - 129)
4-Bromofluorobenzene	93	(74 - 114)
	93	(74 - 114)
Toluene-d8	107	(76 - 116)
	106	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJAM21A6-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F150183-005 GJAM21A7-MSD
Date Sampled...: 06/14/04 15:00 **Date Received..:** 06/15/04
Prep Date.....: 06/24/04 **Analysis Date..:** 06/24/04
Prep Batch #...: 4177179 **Analysis Time..:** 17:09
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**101**	**(75 - 116)**			**SW846 8260B**
	103	**(75 - 116)**	**1.6**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**96**	**(77 - 117)**			**SW846 8260B**
	95	**(77 - 117)**	**1.0**	**(0-20)**	**SW846 8260B**
1,1-Dichloroethene	**73**	**(67 - 125)**			**SW846 8260B**
	80	**(67 - 125)**	**8.6**	**(0-20)**	**SW846 8260B**
Toluene	**98**	**(74 - 115)**			**SW846 8260B**
	101	**(74 - 115)**	**2.2**	**(0-20)**	**SW846 8260B**
Trichloroethene	**84**	**(80 - 123)**			**SW846 8260B**
	85	**(80 - 123)**	**2.2**	**(0-20)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(76 - 116)
	97	(76 - 116)
1,2-Dichloroethane-d4	84	(59 - 129)
	86	(59 - 129)
4-Bromofluorobenzene	102	(74 - 114)
	100	(74 - 114)
Toluene-d8	112	(76 - 116)
	108	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJAM21A6-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F150183-005 GJAM21A7-MSD
Date Sampled...: 06/14/04 15:00 **Date Received..:** 06/15/04
Prep Date.....: 06/24/04 **Analysis Date..:** 06/24/04
Prep Batch #...: 4177179 **Analysis Time..:** 17:09
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**10.0**	**10.1**	**ug/L**	**101**		**SW846 8260B**
	ND	**10.0**	**10.3**	**ug/L**	**103**	**1.6**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**9.60**	**ug/L**	**96**		**SW846 8260B**
	ND	**10.0**	**9.50**	**ug/L**	**95**	**1.0**	**SW846 8260B**
1,1-Dichloroethene	**ND**	**10.0**	**7.34**	**ug/L**	**73**		**SW846 8260B**
	ND	**10.0**	**8.00**	**ug/L**	**80**	**8.6**	**SW846 8260B**
Toluene	**ND**	**10.0**	**9.83**	**ug/L**	**98**		**SW846 8260B**
	ND	**10.0**	**10.1**	**ug/L**	**101**	**2.2**	**SW846 8260B**
Trichloroethene	**ND**	**10.0**	**8.36**	**ug/L**	**84**		**SW846 8260B**
	ND	**10.0**	**8.54**	**ug/L**	**85**	**2.2**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(76 - 116)
	97	(76 - 116)
1,2-Dichloroethane-d4	84	(59 - 129)
	86	(59 - 129)
4-Bromofluorobenzene	102	(74 - 114)
	100	(74 - 114)
Toluene-d8	112	(76 - 116)
	108	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJ8T81AA **Matrix.....:** WATER
MB Lot-Sample #: D4F290000-517

Prep Date.....: 06/26/04 **Analysis Time..:** 07:12
Analysis Date..: 06/26/04 **Prep Batch #...:** 4181517
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Acetonitrile	ND	20	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone (MEK)	ND	5.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroprene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Allyl chloride	ND	2.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
1,4-Dioxane	ND	200	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Ethyl methacrylate	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Iodomethane	ND	1.0	ug/L	SW846 8260B
Isobutyl alcohol	ND	50	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJ8T81AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Methacrylonitrile	ND	10	ug/L	SW846 8260B
Methylene chloride	**0.30 J**	**5.0**	**ug/L**	**SW846 8260B**
Methyl methacrylate	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Propionitrile	ND	20	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
Vinyl acetate	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(76 - 116)
1,2-Dichloroethane-d4	98	(59 - 129)
4-Bromofluorobenzene	103	(74 - 114)
Toluene-d8	100	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

US GEOLOGICAL SURVEY

Method Blank Report

GC/MS Volatiles

Lot-Sample #: D4F290000-517 B **Work Order #:** GJ8T81AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		4.1 J	M	16.181	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJ8T81AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F290000-517 GJ8T81AD-LCSD
Prep Date.....: 06/26/04 **Analysis Date..:** 06/26/04
Prep Batch #...: 4181517 **Analysis Time..:** 06:24
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**96**	**(75 - 116)**			**SW846 8260B**
	92	**(75 - 116)**	**4.1**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**99**	**(77 - 117)**			**SW846 8260B**
	105	**(77 - 117)**	**5.7**	**(0-20)**	**SW846 8260B**
1,1-Dichloroethene	**95**	**(67 - 125)**			**SW846 8260B**
	92	**(67 - 125)**	**3.3**	**(0-20)**	**SW846 8260B**
Toluene	**103**	**(74 - 115)**			**SW846 8260B**
	108	**(74 - 115)**	**4.7**	**(0-20)**	**SW846 8260B**
Trichloroethene	**96**	**(80 - 123)**			**SW846 8260B**
	97	**(80 - 123)**	**1.4**	**(0-20)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(76 - 116)
	93	(76 - 116)
1,2-Dichloroethane-d4	96	(59 - 129)
	98	(59 - 129)
4-Bromofluorobenzene	103	(74 - 114)
	104	(74 - 114)
Toluene-d8	98	(76 - 116)
	100	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJ8T81AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F290000-517 GJ8T81AD-LCSD
Prep Date.....: 06/26/04 **Analysis Date..:** 06/26/04
Prep Batch #...: 4181517 **Analysis Time..:** 06:24
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	**10.0**	**9.62**	**ug/L**	**96**		**SW846 8260B**
	10.0	**9.23**	**ug/L**	**92**	**4.1**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.90**	**ug/L**	**99**		**SW846 8260B**
	10.0	**10.5**	**ug/L**	**105**	**5.7**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**9.55**	**ug/L**	**95**		**SW846 8260B**
	10.0	**9.24**	**ug/L**	**92**	**3.3**	**SW846 8260B**
Toluene	**10.0**	**10.3**	**ug/L**	**103**		**SW846 8260B**
	10.0	**10.8**	**ug/L**	**108**	**4.7**	**SW846 8260B**
Trichloroethene	**10.0**	**9.61**	**ug/L**	**96**		**SW846 8260B**
	10.0	**9.75**	**ug/L**	**97**	**1.4**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(76 - 116)
	93	(76 - 116)
1,2-Dichloroethane-d4	96	(59 - 129)
	98	(59 - 129)
4-Bromofluorobenzene	103	(74 - 114)
	104	(74 - 114)
Toluene-d8	98	(76 - 116)
	100	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJEWJ1A3-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F160251-009 GJEWJ1A4-MSD
Date Sampled...: 06/15/04 14:00 **Date Received..:** 06/16/04
Prep Date.....: 06/26/04 **Analysis Date..:** 06/26/04
Prep Batch #...: 4181517 **Analysis Time..:** 08:00
Dilution Factor: 2000

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**97**	**(75 - 116)**			**SW846 8260B**
	94	**(75 - 116)**	**2.8**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**102**	**(77 - 117)**			**SW846 8260B**
	102	**(77 - 117)**	**0.70**	**(0-20)**	**SW846 8260B**
1,1-Dichloroethene	**100**	**(67 - 125)**			**SW846 8260B**
	90	**(67 - 125)**	**10**	**(0-20)**	**SW846 8260B**
Toluene	**99**	**(74 - 115)**			**SW846 8260B**
	90	**(74 - 115)**	**2.4**	**(0-20)**	**SW846 8260B**
Trichloroethene	**98**	**(80 - 123)**			**SW846 8260B**
	95	**(80 - 123)**	**2.5**	**(0-20)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(76 - 116)
	97	(76 - 116)
1,2-Dichloroethane-d4	100	(59 - 129)
	96	(59 - 129)
4-Bromofluorobenzene	107	(74 - 114)
	109	(74 - 114)
Toluene-d8	100	(76 - 116)
	109	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJEWJ1A3-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F160251-009 GJEWJ1A4-MSD
Date Sampled...: 06/15/04 14:00 **Date Received..:** 06/16/04
Prep Date.....: 06/26/04 **Analysis Date..:** 06/26/04
Prep Batch #...: 4181517 **Analysis Time..:** 08:00
Dilution Factor: 2000

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**20000**	**19300**	**ug/L**	**97**		**SW846 8260B**
	ND	**20000**	**18800**	**ug/L**	**94**	**2.8**	**SW846 8260B**
Chlorobenzene	**ND**	**20000**	**20500**	**ug/L**	**102**		**SW846 8260B**
	ND	**20000**	**20300**	**ug/L**	**102**	**0.70**	**SW846 8260B**
1,1-Dichloroethene	**ND**	**20000**	**20000**	**ug/L**	**100**		**SW846 8260B**
	ND	**20000**	**18100**	**ug/L**	**90**	**10**	**SW846 8260B**
Toluene	**55000**	**20000**	**74800**	**ug/L**	**99**		**SW846 8260B**
	55000	**20000**	**73000**	**ug/L**	**90**	**2.4**	**SW846 8260B**
Trichloroethene	**ND**	**20000**	**19500**	**ug/L**	**98**		**SW846 8260B**
	ND	**20000**	**19000**	**ug/L**	**95**	**2.5**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(76 - 116)
	97	(76 - 116)
1,2-Dichloroethane-d4	100	(59 - 129)
	96	(59 - 129)
4-Bromofluorobenzene	107	(74 - 114)
	109	(74 - 114)
Toluene-d8	100	(76 - 116)
	109	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CANNON-4
MB Lot-Sample #: D4F290000-544

Work Order #...: GJ8WV1AA

Matrix.....: WATER

Prep Date.....: 06/28/04
Prep Batch #...: 4181544

Analysis Time..: 21:25

Analysis Date..: 06/28/04
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Acetonitrile	ND	20	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone (MEK)	ND	5.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroprene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Allyl chloride	ND	2.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
1,4-Dioxane	ND	200	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Ethyl methacrylate	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Iodomethane	ND	1.0	ug/L	SW846 8260B
Isobutyl alcohol	ND	50	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJ8WV1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Methacrylonitrile	ND	10	ug/L	SW846 8260B
Methylene chloride	**0.40 J**	**5.0**	**ug/L**	**SW846 8260B**
Methyl methacrylate	ND	1.0	ug/L	SW846 8260B
4- ethyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
P. pionitrile	ND	20	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
Vinyl acetate	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(76 - 116)
1,2-Dichloroethane-d4	98	(59 - 129)
4-Bromofluorobenzene	90	(74 - 114)
Toluene-d8	93	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

US GEOLOGICAL SURVEY

Method Blank Report

GC/MS Volatiles

Lot-Sample #: D4F290000-544 B **Work Order #:** GJ8WV1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJ8WV1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F290000-544 GJ8WV1AD-LCSD
Prep Date.....: 06/28/04 **Analysis Date..:** 06/28/04
Prep Batch #...: 4181544 **Analysis Time..:** 21:00
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**94**	**(75 - 116)**			**SW846 8260B**
	90	**(75 - 116)**	**4.2**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**97**	**(77 - 117)**			**SW846 8260B**
	91	**(77 - 117)**	**7.1**	**(0-20)**	**SW846 8260B**
1,1-Dichloroethene	**90**	**(67 - 125)**			**SW846 8260B**
	85	**(67 - 125)**	**5.1**	**(0-20)**	**SW846 8260B**
Toluene	**98**	**(74 - 115)**			**SW846 8260B**
	89	**(74 - 115)**	**9.8**	**(0-20)**	**SW846 8260B**
Trichloroethene	**101**	**(80 - 123)**			**SW846 8260B**
	100	**(80 - 123)**	**1.3**	**(0-20)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(76 - 116)
	95	(76 - 116)
1,2-Dichloroethane-d4	95	(59 - 129)
	91	(59 - 129)
4-Bromofluorobenzene	93	(74 - 114)
	88	(74 - 114)
Toluene-d8	94	(76 - 116)
	85	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJ8WV1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F290000-544 GJ8WV1AD-LCSD
Prep Date.....: 06/28/04 **Analysis Date..:** 06/28/04
Prep Batch #...: 4181544 **Analysis Time..:** 21:00
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	**10.0**	**9.43**	**ug/L**	**94**		**SW846 8260B**
	10.0	**9.04**	**ug/L**	**90**	**4.2**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.74**	**ug/L**	**97**		**SW846 8260B**
	10.0	**9.07**	**ug/L**	**91**	**7.1**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**8.97**	**ug/L**	**90**		**SW846 8260B**
	10.0	**8.53**	**ug/L**	**85**	**5.1**	**SW846 8260B**
Toluene	**10.0**	**9.83**	**ug/L**	**98**		**SW846 8260B**
	10.0	**8.91**	**ug/L**	**89**	**9.8**	**SW846 8260B**
Trichloroethene	**10.0**	**10.1**	**ug/L**	**101**		**SW846 8260B**
	10.0	**10.0**	**ug/L**	**100**	**1.3**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(76 - 116)
	95	(76 - 116)
1,2-Dichloroethane-d4	95	(59 - 129)
	91	(59 - 129)
4-Bromofluorobenzene	93	(74 - 114)
	88	(74 - 114)
Toluene-d8	94	(76 - 116)
	85	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJH7K1DD-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F170353-001 GJH7K1DE-MSD
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04
Prep Date.....: 06/28/04 **Analysis Date..:** 06/29/04
Prep Batch #...: 4181544 **Analysis Time..:** 01:23
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**92**	**(75 - 116)**			**SW846 8260B**
	93	**(75 - 116)**	**1.8**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**94**	**(77 - 117)**			**SW846 8260B**
	89	**(77 - 117)**	**5.2**	**(0-20)**	**SW846 8260B**
1,1-Dichloroethene	**83**	**(67 - 125)**			**SW846 8260B**
	84	**(67 - 125)**	**2.0**	**(0-20)**	**SW846 8260B**
Toluene	**91**	**(74 - 115)**			**SW846 8260B**
	88	**(74 - 115)**	**3.6**	**(0-20)**	**SW846 8260B**
Trichloroethene	**108**	**(80 - 123)**			**SW846 8260B**
	108	**(80 - 123)**	**0.27**	**(0-20)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(76 - 116)
	103	(76 - 116)
1,2-Dichloroethane-d4	101	(59 - 129)
	105	(59 - 129)
4-Bromofluorobenzene	93	(74 - 114)
	90	(74 - 114)
Toluen -d8	92	(76 - 116)
	85	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJH7K1DD-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F170353-001 GJH7K1DE-MSD
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04
Prep Date.....: 06/28/04 **Analysis Date..:** 06/29/04
Prep Batch #...: 4181544 **Analysis Time..:** 01:23
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**10.0**	**9.15**	**ug/L**	**92**		**SW846 8260B**
	ND	**10.0**	**9.32**	**ug/L**	**93**	**1.8**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**9.38**	**ug/L**	**94**		**SW846 8260B**
	ND	**10.0**	**8.91**	**ug/L**	**89**	**5.2**	**SW846 8260B**
1,1-Dichloroethene	**ND**	**10.0**	**8.26**	**ug/L**	**83**		**SW846 8260B**
	ND	**10.0**	**8.44**	**ug/L**	**84**	**2.0**	**SW846 8260B**
Toluene	**ND**	**10.0**	**9.11**	**ug/L**	**91**		**SW846 8260B**
	ND	**10.0**	**8.79**	**ug/L**	**88**	**3.6**	**SW846 8260B**
Trichloroethene	**0.40**	**10.0**	**11.2**	**ug/L**	**108**		**SW846 8260B**
	0.40	**10.0**	**11.2**	**ug/L**	**108**	**0.27**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(76 - 116)
	103	(76 - 116)
1,2-Dichloroethane-d4	101	(59 - 129)
	105	(59 - 129)
4-Bromofluorobenzene	93	(74 - 114)
	90	(74 - 114)
Toluene-d8	92	(76 - 116)
	85	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CANNON-4
MB Lot-Sample #: D4F160000-427

Work Order #...: GJE7R1AA

Matrix.....: WATER

Prep Date.....: 06/16/04
Prep Batch #...: 4168427

Analysis Time..: 22:30

Analysis Date..: 06/25/04
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	10	ug/L	SW846 8270C
Acenaphthylene	ND	10	ug/L	SW846 8270C
Acetophenone	ND	10	ug/L	SW846 8270C
2-Acetylaminofluorene	ND	100	ug/L	SW846 8270C
4-Aminobiphenyl	ND	50	ug/L	SW846 8270C
Aniline	ND	10	ug/L	SW846 8270C
Anthracene	ND	10	ug/L	SW846 8270C
Aramite	ND	20	ug/L	SW846 8270C
Benzo(a)anthracene	ND	10	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270C
Benzo(a)pyrene	ND	10	ug/L	SW846 8270C
Benzyl alcohol	**1.6 J**	**10**	**ug/L**	**SW846 8270C**
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270C
bis(2-Chloroethyl)-ether	ND	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	10	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270C
2-Chloronaphthalene	ND	10	ug/L	SW846 8270C
2-Chlorophenol	ND	10	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Chrysene	ND	10	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270C
Dibenzofuran	ND	10	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270C
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
2,6-Dichlorophenol	ND	10	ug/L	SW846 8270C
Diethyl phthalate	ND	10	ug/L	SW846 8270C
4-Dimethylaminoazobenzene	ND	20	ug/L	SW846 8270C

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJE7R1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	SW846 8270C
3,3'-Dimethylbenzidine	ND	20	ug/L	SW846 8270C
alpha,alpha-Dimethylphene	ND	50	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270C
Dimethyl phthalate	ND	10	ug/L	SW846 8270C
1,3-Dinitrobenzene	ND	10	ug/L	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270C
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270C
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270C
2-sec-Butyl-4,6-dinitro-phenol	ND	20	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270C
Diphenylamine	ND	10	ug/L	SW846 8270C
Ethyl methanesulfonate	ND	10	ug/L	SW846 8270C
Fluoranthene	ND	10	ug/L	SW846 8270C
Fluorene	ND	10	ug/L	SW846 8270C
Hexachlorobenzene	ND	10	ug/L	SW846 8270C
Hexachlorobutadiene	ND	10	ug/L	SW846 8270C
Hexachlorocyclopenta-diene	ND	50	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
Hexachloropropene	ND	100	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270C
Isophorone	ND	10	ug/L	SW846 8270C
Isosafrole	ND	20	ug/L	SW846 8270C
Methapyrilene	ND	50	ug/L	SW846 8270C
3-Methylcholanthrene	ND	20	ug/L	SW846 8270C
Methyl methanesulfonate	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	ND	10	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
3-Methylphenol	ND	10	ug/L	SW846 8270C
4-Methylphenol	ND	10	ug/L	SW846 8270C
Naphthalene	ND	10	ug/L	SW846 8270C
1,4-Naphthoquinone	ND	50	ug/L	SW846 8270C
1-Naphthylamine	ND	10	ug/L	SW846 8270C
2-Naphthylamine	ND	10	ug/L	SW846 8270C
2-Nitroaniline	ND	50	ug/L	SW846 8270C
3-Nitroaniline	ND	50	ug/L	SW846 8270C
4-Nitroaniline	ND	50	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C
2-Nitrophenol	ND	10	ug/L	SW846 8270C
4-Nitrophenol	ND	50	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJE7R1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
N-Nitrosodi-n-butylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodiethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodimethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	SW846 8270C
N-Nitrosomethylethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosomorpholine	ND	10	ug/L	SW846 8270C
N-Nitrosopiperidine	ND	10	ug/L	SW846 8270C
N-Nitrosopyrrolidine	ND	10	ug/L	SW846 8270C
5-Nitro-o-toluidine	ND	20	ug/L	SW846 8270C
2,2'-oxybis(1-Chloropropa	ND	10	ug/L	SW846 8270C
Pentachlorobenzene	ND	10	ug/L	SW846 8270C
Pentachloroethane	ND	50	ug/L	SW846 8270C
Pentachloronitrobenzene	ND	50	ug/L	SW846 8270C
Pentachlorophenol	ND	50	ug/L	SW846 8270C
Phenacetin	ND	20	ug/L	SW846 8270C
Phenanthrene	ND	10	ug/L	SW846 8270C
Phenol	ND	10	ug/L	SW846 8270C
2-Picoline	ND	20	ug/L	SW846 8270C
Pronamide	ND	20	ug/L	SW846 8270C
Pyrene	ND	10	ug/L	SW846 8270C
Pyridine	ND	20	ug/L	SW846 8270C
Safrole	ND	50	ug/L	SW846 8270C
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	SW846 8270C
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	SW846 8270C
2-Toluidine	ND	10	ug/L	SW846 8270C
1,2,4-Trichloro-benzene	ND	10	ug/L	SW846 8270C
2,4,5-Trichloro-phenol	ND	10	ug/L	SW846 8270C
2,4,6-Trichloro-phenol	ND	10	ug/L	SW846 8270C
1,3,5-Trinitrobenzene	ND	50	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	78	(36 - 110)
Phenol-d5	80	(39 - 109)
Nitrobenzene-d5	82	(47 - 107)
2-Fluorobiphenyl	58	(34 - 96)
2,4,6-Tribromophenol	76	(34 - 126)
Terphenyl-d14	75	(12 - 126)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJE7R1AA **Matrix.....:** WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

US GEOLOGICAL SURVEY

Method Blank Report

GC/MS Semivolatiles

Lot-Sample #: D4F160000-427 B **Work Order #:** GJE7R1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Ethanol, 2-butoxy-	111-76-2	17 J	M	4.4829	ug/L
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	15 J	M	5.2611	ug/L
Unknown		6.9 J	M	11.776	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: CANNON-4 Work Order #...: GJE7R1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D4F160000-427 GJE7R1AD-LCSD
Prep Date.....: 06/16/04 Analysis Date..: 06/25/04
Prep Batch #...: 4168427 Analysis Time..: 22:55
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	78	(51 - 95)			SW846 8270C
	79	(51 - 95)	0.60	(0-28)	SW846 8270C
4-Chloro-3-methylphenol	84	(55 - 103)			SW846 8270C
	82	(55 - 103)	1.5	(0-28)	SW846 8270C
2-Chlorophenol	81	(56 - 99)			SW846 8270C
	80	(56 - 99)	1.1	(0-38)	SW846 8270C
1,4-Dichlorobenzene	63	(30 - 94)			SW846 8270C
	69	(30 - 94)	9.5	(0-50)	SW846 8270C
2,4-Dinitrotoluene	86	(55 - 101)			SW846 8270C
	89	(55 - 101)	3.5	(0-30)	SW846 8270C
4-Nitrophenol	71	(39 - 116)			SW846 8270C
	71	(39 - 116)	0.26	(0-53)	SW846 8270C
N-Nitrosodi-n-propyl-amine	76	(56 - 99)			SW846 8270C
	74	(56 - 99)	2.3	(0-27)	SW846 8270C
Pentachlorophenol	73	(43 - 109)			SW846 8270C
	74	(43 - 109)	1.7	(0-50)	SW846 8270C
Phenol	82	(54 - 100)			SW846 8270C
	83	(54 - 100)	0.89	(0-36)	SW846 8270C
Pyrene	79	(48 - 102)			SW846 8270C
	79	(48 - 102)	0.14	(0-33)	SW846 8270C
1,2,4-Trichloro-benzene	67	(36 - 94)			SW846 8270C
	71	(36 - 94)	5.7	(0-44)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	79	(54 - 97)
	79	(54 - 97)
Phenol-d5	82	(57 - 100)
	81	(57 - 100)
Nitrobenzene-d5	85	(56 - 101)
	82	(56 - 101)
2-Fluorobiphenyl	69	(42 - 92)
	65	(42 - 92)
2,4,6-Tribromophenol	83	(54 - 107)
	83	(54 - 107)
Terphenyl-d14	80	(51 - 109)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJE7R1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F160000-427 GJE7R1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	81	(51 - 109)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJE7R1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F160000-427 GJE7R1AD-LCSD
Prep Date.....: 06/16/04 **Analysis Date..:** 06/25/04
Prep Batch #...: 4168427 **Analysis Time..:** 22:55
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	100	78.1	ug/L	78		SW846 8270C
	100	78.5	ug/L	79	0.60	SW846 8270C
4-Chloro-3-methylphenol	150	125	ug/L	84		SW846 8270C
	150	123	ug/L	82	1.5	SW846 8270C
2-Chlorophenol	150	122	ug/L	81		SW846 8270C
	150	121	ug/L	80	1.1	SW846 8270C
1,4-Dichlorobenzene	100	63.1	ug/L	63		SW846 8270C
	100	69.3	ug/L	69	9.5	SW846 8270C
2,4-Dinitrotoluene	100	86.3	ug/L	86		SW846 8270C
	100	89.4	ug/L	89	3.5	SW846 8270C
4-Nitrophenol	150	106	ug/L	71		SW846 8270C
	150	106	ug/L	71	0.26	SW846 8270C
N-Nitrosodi-n-propyl-amine	100	75.8	ug/L	76		SW846 8270C
	100	74.1	ug/L	74	2.3	SW846 8270C
Pentachlorophenol	150	109	ug/L	73		SW846 8270C
	150	111	ug/L	74	1.7	SW846 8270C
Phenol	150	123	ug/L	82		SW846 8270C
	150	124	ug/L	83	0.89	SW846 8270C
Pyrene	100	78.7	ug/L	79		SW846 8270C
	100	78.8	ug/L	79	0.14	SW846 8270C
1,2,4-Trichloro-benzene	100	67.3	ug/L	67		SW846 8270C
	100	71.2	ug/L	71	5.7	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	79	(54 - 97)
	79	(54 - 97)
Phenol-d5	82	(57 - 100)
	81	(57 - 100)
Nitrobenzene-d5	85	(56 - 101)
	82	(56 - 101)
2-Fluorobiphenyl	69	(42 - 92)
	65	(42 - 92)
2,4,6-Tribromophenol	83	(54 - 107)
	83	(54 - 107)
Terphenyl-d14	80	(51 - 109)

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJE7R1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F160000-427 GJE7R1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	81	(51 - 109)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJJN91AA **Matrix.....:** WATER
MB Lot-Sample #: D4F170000-513

Prep Date.....: 06/17/04 **Analysis Time..:** 04:10

Analysis Date..: 06/30/04 **Prep Batch #...:** 4169513
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	10	ug/L	SW846 8270C
Acenaphthylene	ND	10	ug/L	SW846 8270C
Acetophenone	ND	10	ug/L	SW846 8270C
2-Acetylaminofluorene	ND	100	ug/L	SW846 8270C
4-Aminobiphenyl	ND	50	ug/L	SW846 8270C
Aniline	ND	10	ug/L	SW846 8270C
Anthracene	ND	10	ug/L	SW846 8270C
Aramite	ND	20	ug/L	SW846 8270C
Benzo(a)anthracene	ND	10	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270C
Benzo(a)pyrene	ND	10	ug/L	SW846 8270C
Benzyl alcohol	ND	10	ug/L	SW846 8270C
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270C
bis(2-Chloroethyl)-ether	ND	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	10	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270C
2-Chloronaphthalene	ND	10	ug/L	SW846 8270C
2-Chlorophenol	ND	10	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Chrysene	ND	10	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270C
Dibenzofuran	ND	10	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270C
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
2,6-Dichlorophenol	ND	10	ug/L	SW846 8270C
Diethyl phthalate	ND	10	ug/L	SW846 8270C
4-Dimethylaminoazobenzene	ND	20	ug/L	SW846 8270C

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJJN91AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	SW846 8270C
3,3'-Dimethylbenzidine	ND	20	ug/L	SW846 8270C
alpha,alpha-Dimethylphene	ND	50	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270C
Dimethyl phthalate	ND	10	ug/L	SW846 8270C
1,3-Dinitrobenzene	ND	10	ug/L	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270C
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270C
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270C
2-sec-Butyl-4,6-dinitro-phenol	ND	20	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270C
Diphenylamine	ND	10	ug/L	SW846 8270C
Ethyl methanesulfonate	ND	10	ug/L	SW846 8270C
Fluoranthene	ND	10	ug/L	SW846 8270C
Fluorene	ND	10	ug/L	SW846 8270C
Hexachlorobenzene	ND	10	ug/L	SW846 8270C
Hexachlorobutadiene	ND	10	ug/L	SW846 8270C
Hexachlorocyclopenta-diene	ND	50	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
Hexachloropropene	ND	100	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270C
Isophorone	ND	10	ug/L	SW846 8270C
Isosafrole	ND	20	ug/L	SW846 8270C
Methapyrilene	ND	50	ug/L	SW846 8270C
3-Methylcholanthrene	ND	20	ug/L	SW846 8270C
Methyl methanesulfonate	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	ND	10	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
3-Methylphenol	ND	10	ug/L	SW846 8270C
4-Methylphenol	ND	10	ug/L	SW846 8270C
Naphthalene	ND	10	ug/L	SW846 8270C
1,4-Naphthoquinone	ND	50	ug/L	SW846 8270C
1-Naphthylamine	ND	10	ug/L	SW846 8270C
2-Naphthylamine	ND	10	ug/L	SW846 8270C
2-Nitroaniline	ND	50	ug/L	SW846 8270C
3-Nitroaniline	ND	50	ug/L	SW846 8270C
4-Nitroaniline	ND	50	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C
2-Nitrophenol	ND	10	ug/L	SW846 8270C
4-Nitrophenol	ND	50	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJJN91AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
N-Nitrosodi-n-butylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodiethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodimethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	SW846 8270C
N-Nitrosomethylethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosomorpholine	ND	10	ug/L	SW846 8270C
N-Nitrosopiperidine	ND	10	ug/L	SW846 8270C
N-Nitrosopyrrolidine	ND	10	ug/L	SW846 8270C
5-Nitro-o-toluidine	ND	20	ug/L	SW846 8270C
2,2'-oxybis(1-Chloropropa	ND	10	ug/L	SW846 8270C
Pentachlorobenzene	ND	10	ug/L	SW846 8270C
Pentachloroethane	ND	50	ug/L	SW846 8270C
Pentachloronitrobenzene	ND	50	ug/L	SW846 8270C
Pentachlorophenol	ND	50	ug/L	SW846 8270C
Phenacetin	ND	20	ug/L	SW846 8270C
Phenanthrene	ND	10	ug/L	SW846 8270C
Phenol	ND	10	ug/L	SW846 8270C
2-Picoline	ND	20	ug/L	SW846 8270C
Pronamide	ND	20	ug/L	SW846 8270C
Pyrene	ND	10	ug/L	SW846 8270C
Pyridine	ND	20	ug/L	SW846 8270C
Safrole	ND	50	ug/L	SW846 8270C
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	SW846 8270C
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	SW846 8270C
2-Toluidine	ND	10	ug/L	SW846 8270C
1,2,4-Trichloro-benzene	ND	10	ug/L	SW846 8270C
2,4,5-Trichloro-phenol	ND	10	ug/L	SW846 8270C
2,4,6-Trichloro-phenol	ND	10	ug/L	SW846 8270C
1,3,5-Trinitrobenzene	ND	50	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	74	(36 - 110)
Phenol-d5	72	(39 - 109)
Nitrobenzene-d5	71	(47 - 107)
2-Fluorobiphenyl	67	(34 - 96)
2,4,6-Tribromophenol	85	(34 - 126)
Terphenyl-d14	95	(12 - 126)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJJN91AA **Matrix.....:** WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

US GEOLOGICAL SURVEY

Method Blank Report

GC/MS Semivolatiles

Lot-Sample #: D4F170000-513 B **Work Order #:** GJJN91AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		110 J	M	2.7215	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJJN91AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F170000-513 GJJN91AD-LCSD
Prep Date.....: 06/17/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4169513 **Analysis Time..:** 04:36
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	84	(51 - 95)			SW846 8270C
	85	(51 - 95)	1.8	(0-28)	SW846 8270C
4-Chloro-3-methylphenol	86	(55 - 103)			SW846 8270C
	88	(55 - 103)	2.6	(0-28)	SW846 8270C
2-Chlorophenol	80	(56 - 99)			SW846 8270C
	84	(56 - 99)	3.8	(0-38)	SW846 8270C
1,4-Dichlorobenzene	70	(30 - 94)			SW846 8270C
	68	(30 - 94)	2.3	(0-50)	SW846 8270C
2,4-Dinitrotoluene	88	(55 - 101)			SW846 8270C
	91	(55 - 101)	4.0	(0-30)	SW846 8270C
4-Nitrophenol	87	(39 - 116)			SW846 8270C
	89	(39 - 116)	1.8	(0-53)	SW846 8270C
N-Nitrosodi-n-propylamine	67	(56 - 99)			SW846 8270C
	69	(56 - 99)	2.2	(0-27)	SW846 8270C
Pentachlorophenol	84	(43 - 109)			SW846 8270C
	89	(43 - 109)	5.8	(0-50)	SW846 8270C
Phenol	75	(54 - 100)			SW846 8270C
	77	(54 - 100)	3.3	(0-36)	SW846 8270C
Pyrene	90	(48 - 102)			SW846 8270C
	95	(48 - 102)	5.0	(0-33)	SW846 8270C
1,2,4-Trichlorobenzene	76	(36 - 94)			SW846 8270C
	76	(36 - 94)	0.90	(0-44)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	74	(54 - 97)
	76	(54 - 97)
Phenol-d5	77	(57 - 100)
	77	(57 - 100)
Nitrobenzene-d5	76	(56 - 101)
	75	(56 - 101)
2-Fluorobiphenyl	75	(42 - 92)
	72	(42 - 92)
2,4,6-Tribromophenol	95	(54 - 107)
	98	(54 - 107)
Terphenyl-d14	93	(51 - 109)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJJN91AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F170000-513 GJJN91AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	96	(51 - 109)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJJN91AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F170000-513 GJJN91AD-LCSD
Prep Date.....: 06/17/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4169513 **Analysis Time..:** 04:36
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	100	83.6	ug/L	84		SW846 8270C
	100	85.1	ug/L	85	1.8	SW846 8270C
4-Chloro-3-methylphenol	150	128	ug/L	86		SW846 8270C
	150	132	ug/L	88	2.6	SW846 8270C
2-Chlorophenol	150	121	ug/L	80		SW846 8270C
	150	125	ug/L	84	3.8	SW846 8270C
1,4-Dichlorobenzene	100	69.5	ug/L	70		SW846 8270C
	100	68.0	ug/L	68	2.3	SW846 8270C
2,4-Dinitrotoluene	100	87.7	ug/L	88		SW846 8270C
	100	91.3	ug/L	91	4.0	SW846 8270C
4-Nitrophenol	150	131	ug/L	87		SW846 8270C
	150	133	ug/L	89	1.8	SW846 8270C
N-Nitrosodi-n-propyl-amine	100	67.1	ug/L	67		SW846 8270C
	100	68.6	ug/L	69	2.2	SW846 8270C
Pentachlorophenol	150	126	ug/L	84		SW846 8270C
	150	133	ug/L	89	5.8	SW846 8270C
Phenol	150	112	ug/L	75		SW846 8270C
	150	116	ug/L	77	3.3	SW846 8270C
Pyrene	100	89.9	ug/L	90		SW846 8270C
	100	94.6	ug/L	95	5.0	SW846 8270C
1,2,4-Trichloro-benzene	100	76.3	ug/L	76		SW846 8270C
	100	75.6	ug/L	76	0.90	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	74	(54 - 97)
	76	(54 - 97)
Phenol-d5	77	(57 - 100)
	77	(57 - 100)
Nitrobenzene-d5	76	(56 - 101)
	75	(56 - 101)
2-Fluorobiphenyl	75	(42 - 92)
	72	(42 - 92)
2,4,6-Tribromophenol	95	(54 - 107)
	98	(54 - 107)
Terphenyl-d14	93	(51 - 109)

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJJN91AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F170000-513 GJJN91AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	96	(51 - 109)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJH7K1DF-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F170353-001 GJH7K1DG-MSD
Da Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04
P Date.....: 06/17/04 **Analysis Date..:** 06/30/04
P Batch #...: 4169513 **Analysis Time..:** 05:53
Di ction Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	83	(42 - 102)			SW846 8270C
	80	(42 - 102)	2.6	(0-42)	SW846 8270C
4-Chloro-3-methylphenol	89	(27 - 128)			SW846 8270C
	82	(27 - 128)	9.0	(0-70)	SW846 8270C
2-Chlorophenol	86	(46 - 108)			SW846 8270C
	81	(46 - 108)	5.1	(0-58)	SW846 8270C
1,4-Dichlorobenzene	76	(38 - 94)			SW846 8270C
	70	(38 - 94)	7.3	(0-47)	SW846 8270C
2 4-Dinitrotoluene	85	(45 - 115)			SW846 8270C
	81	(45 - 115)	5.3	(0-44)	SW846 8270C
itrophenol	84	(25 - 133)			SW846 8270C
	83	(25 - 133)	1.9	(0-73)	SW846 8270C
N-Nitrosodi-n-propyl-amine	70	(45 - 106)			SW846 8270C
	65	(45 - 106)	7.5	(0-81)	SW846 8270C
Pentachlorophenol	83	(27 - 136)			SW846 8270C
	82	(27 - 136)	1.2	(0-55)	SW846 8270C
Phenol	79	(27 - 121)			SW846 8270C
	75	(27 - 121)	5.5	(0-71)	SW846 8270C
Pyrene	87	(20 - 117)			SW846 8270C
	86	(20 - 117)	1.4	(0-53)	SW846 8270C
1,2,4-Trichloro-benzene	82	(36 - 94)			SW846 8270C
	77	(36 - 94)	6.0	(0-46)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	78	(36 - 110)
	72	(36 - 110)
Phenol-d5	80	(39 - 109)
	74	(39 - 109)
Nitrobenzene-d5	78	(47 - 107)
	73	(47 - 107)
2-Fluorobiphenyl	75	(34 - 96)
	73	(34 - 96)
2,4,6-Tribromophenol	93	(34 - 126)
	87	(34 - 126)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJH7K1DF-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F170353-001 GJH7K1DG-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	92	(12 - 126)
	86	(12 - 126)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: CANNON-4 Work Order #...: GJH7K1DF-MS Matrix.....: WATER
MS Lot-Sample #: D4F170353-001 GJH7K1DG-MSD
Date Sampled...: 06/16/04 09:05 Date Received..: 06/17/04
Prep Date.....: 06/17/04 Analysis Date..: 06/30/04
Prep Batch #...: 4169513 Analysis Time..: 05:53
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	ND	94.9	78.3	ug/L	83		SW846 8270C
	ND	95.1	76.3	ug/L	80	2.6	SW846 8270C
4-Chloro-3-methylphenol	ND	142	127	ug/L	89		SW846 8270C
	ND	143	116	ug/L	82	9.0	SW846 8270C
2-Chlorophenol	ND	142	122	ug/L	86		SW846 8270C
	ND	143	116	ug/L	81	5.1	SW846 8270C
1,4-Dichlorobenzene	ND	94.9	72.0	ug/L	76		SW846 8270C
	ND	95.1	67.0	ug/L	70	7.3	SW846 8270C
2,4-Dinitrotoluene	ND	94.9	80.8	ug/L	85		SW846 8270C
	ND	95.1	76.7	ug/L	81	5.3	SW846 8270C
4-Nitrophenol	ND	142	120	ug/L	84		SW846 8270C
	ND	143	118	ug/L	83	1.9	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	94.9	66.4	ug/L	70		SW846 8270C
	ND	95.1	61.6	ug/L	65	7.5	SW846 8270C
Pentachlorophenol	ND	142	118	ug/L	83		SW846 8270C
	ND	143	117	ug/L	82	1.2	SW846 8270C
Phenol	ND	142	113	ug/L	79		SW846 8270C
	ND	143	107	ug/L	75	5.5	SW846 8270C
Pyrene	ND	94.9	82.8	ug/L	87		SW846 8270C
	ND	95.1	81.6	ug/L	86	1.4	SW846 8270C
1,2,4-Trichloro-benzene	ND	94.9	77.4	ug/L	82		SW846 8270C
	ND	95.1	72.9	ug/L	77	6.0	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	78	(36 - 110)
	72	(36 - 110)
Phenol-d5	80	(39 - 109)
	74	(39 - 109)
Nitrobenzene-d5	78	(47 - 107)
	73	(47 - 107)
2-Fluorobiphenyl	75	(34 - 96)
	73	(34 - 96)
2,4,6-Tribromophenol	93	(34 - 126)
	87	(34 - 126)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJH7K1DF-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F170353-001 GJH7K1DG-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	92	(12 - 126)
	86	(12 - 126)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJCLE1AA **Matrix.....:** WATER
MB Lot-Sample #: D4F150000-449

Prep Date.....: 06/15/04 **Analysis Time..:** 21:55
Analysis Date..: 06/17/04 **Prep Batch #...:** 4167449
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aldrin	ND	0.050	ug/L	SW846 8081A
alpha-BHC	ND	0.050	ug/L	SW846 8081A
beta-BHC	ND	0.050	ug/L	SW846 8081A
delta-BHC	ND	0.050	ug/L	SW846 8081A
gamma-BHC (Lindane)	ND	0.050	ug/L	SW846 8081A
alpha-Chlordane	ND	0.050	ug/L	SW846 8081A
gamma-Chlordane	ND	0.050	ug/L	SW846 8081A
4,4'-DDD	ND	0.050	ug/L	SW846 8081A
4,4'-DDE	ND	0.050	ug/L	SW846 8081A
4,4'-DDT	ND	0.050	ug/L	SW846 8081A
Diallate	ND	1.0	ug/L	SW846 8081A
Dieldrin	ND	0.050	ug/L	SW846 8081A
Endosulfan I	ND	0.050	ug/L	SW846 8081A
Endosulfan II	ND	0.050	ug/L	SW846 8081A
Endosulfan sulfate	ND	0.050	ug/L	SW846 8081A
Endrin	ND	0.050	ug/L	SW846 8081A
Endrin aldehyde	ND	0.050	ug/L	SW846 8081A
Endrin ketone	ND	0.050	ug/L	SW846 8081A
Heptachlor	ND	0.050	ug/L	SW846 8081A
Heptachlor epoxide	ND	0.050	ug/L	SW846 8081A
Isodrin	ND	0.10	ug/L	SW846 8081A
Kepone	ND	1.0	ug/L	SW846 8081A
Methoxychlor	ND	0.10	ug/L	SW846 8081A
Toxaphene	ND	5.0	ug/L	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	99	(12 - 153)
Tetrachloro-m-xylene	78	(55 - 113)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: CANNON-4
LCS Lot-Sample#: D4F150000-449
Prep Date.....: 06/15/04
Prep Batch #...: 4167449
Dilution Factor: 1

Work Order #...: GJCLE1AC-LCS
GJCLE1AD-LCSD
Analysis Date..: 06/17/04
Analysis Time..: 20:49

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aldrin	**95**	**(56 - 126)**			**SW846 8081A**
	96	**(56 - 126)**	**1.7**	**(0-30)**	**SW846 8081A**
gamma-BHC (Lindane)	**107**	**(72 - 126)**			**SW846 8081A**
	108	**(72 - 126)**	**0.97**	**(0-30)**	**SW846 8081A**
4,4'-DDT	**133**	**(76 - 135)**			**SW846 8081A**
	130	**(76 - 135)**	**2.1**	**(0-30)**	**SW846 8081A**
Dieldrin	**108**	**(80 - 132)**			**SW846 8081A**
	110	**(80 - 132)**	**1.8**	**(0-30)**	**SW846 8081A**
Endrin	**108**	**(63 - 144)**			**SW846 8081A**
	106	**(63 - 144)**	**2.8**	**(0-30)**	**SW846 8081A**
Heptachlor	**106**	**(63 - 124)**			**SW846 8081A**
	108	**(63 - 124)**	**1.4**	**(0-30)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	97	(56 - 136)
	102	(56 - 136)
Tetrachloro-m-xylene	84	(49 - 111)
	85	(49 - 111)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJCLE1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F150000-449 GJCLE1AD-LCSD
Prep Date.....: 06/15/04 **Analysis Date..:** 06/17/04
Prep Batch #...: 4167449 **Analysis Time..:** 20:49
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aldrin	**0.500**	**0.473**	**ug/L**	**95**		**SW846 8081A**
	0.500	**0.481**	**ug/L**	**96**	**1.7**	**SW846 8081A**
gamma-BHC (Lindane)	**0.500**	**0.536**	**ug/L**	**107**		**SW846 8081A**
	0.500	**0.541**	**ug/L**	**108**	**0.97**	**SW846 8081A**
4,4'-DDT	**0.500**	**0.666**	**ug/L**	**133**		**SW846 8081A**
	0.500	**0.652**	**ug/L**	**130**	**2.1**	**SW846 8081A**
Dieldrin	**0.500**	**0.541**	**ug/L**	**108**		**SW846 8081A**
	0.500	**0.550**	**ug/L**	**110**	**1.8**	**SW846 8081A**
Endrin	**0.500**	**0.542**	**ug/L**	**108**		**SW846 8081A**
	0.500	**0.528**	**ug/L**	**106**	**2.8**	**SW846 8081A**
Heptachlor	**0.500**	**0.532**	**ug/L**	**106**		**SW846 8081A**
	0.500	**0.539**	**ug/L**	**108**	**1.4**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	97	(56 - 136)
	102	(56 - 136)
Tetrachloro-m-xylene	84	(49 - 111)
	85	(49 - 111)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJE091AA **Matrix.....:** WATER
MB Lot-Sample #: D4F160000-385

Prep Date.....: 06/16/04 **Analysis Time..:** 18:47
Analysis Date..: 07/08/04 **Prep Batch #...:** 4168385
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aldrin	ND	0.050	ug/L	SW846 8081A
alpha-BHC	ND	0.050	ug/L	SW846 8081A
beta-BHC	ND	0.050	ug/L	SW846 8081A
delta-BHC	ND	0.050	ug/L	SW846 8081A
gamma-BHC (Lindane)	ND	0.050	ug/L	SW846 8081A
alpha-Chlordane	ND	0.050	ug/L	SW846 8081A
gamma-Chlordane	ND	0.050	ug/L	SW846 8081A
4,4'-DDD	ND	0.050	ug/L	SW846 8081A
4,4'-DDE	ND	0.050	ug/L	SW846 8081A
4,4'-DDT	ND	0.050	ug/L	SW846 8081A
Diallate	ND	1.0	ug/L	SW846 8081A
Dieldrin	ND	0.050	ug/L	SW846 8081A
Endosulfan I	ND	0.050	ug/L	SW846 8081A
Endosulfan II	ND	0.050	ug/L	SW846 8081A
Endosulfan sulfate	ND	0.050	ug/L	SW846 8081A
Endrin	ND	0.050	ug/L	SW846 8081A
Endrin aldehyde	ND	0.050	ug/L	SW846 8081A
Endrin ketone	ND	0.050	ug/L	SW846 8081A
Heptachlor	ND	0.050	ug/L	SW846 8081A
Heptachlor epoxide	ND	0.050	ug/L	SW846 8081A
Isodrin	ND	0.10	ug/L	SW846 8081A
Kepone	ND	1.0	ug/L	SW846 8081A
Methoxychlor	ND	0.10	ug/L	SW846 8081A
Toxaphene	ND	5.0	ug/L	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	92	(12 - 153)
Tetrachloro-m-xylene	64	(55 - 113)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJE091AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F160000-385 GJE091AD-LCSD
Prep Date.....: 06/16/04 **Analysis Date..:** 07/08/04
Prep Batch #...: 4168385 **Analysis Time..:** 18:13
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aldrin	**83**	**(56 - 126)**			**SW846 8081A**
	86	**(56 - 126)**	**3.7**	**(0-30)**	**SW846 8081A**
gamma-BHC (Lindane)	**92**	**(72 - 126)**			**SW846 8081A**
	96	**(72 - 126)**	**4.4**	**(0-30)**	**SW846 8081A**
4,4'-DDT	**105**	**(76 - 135)**			**SW846 8081A**
	109	**(76 - 135)**	**3.7**	**(0-30)**	**SW846 8081A**
Dieldrin	**95**	**(80 - 132)**			**SW846 8081A**
	97	**(80 - 132)**	**1.6**	**(0-30)**	**SW846 8081A**
Endrin	**95**	**(63 - 144)**			**SW846 8081A**
	98	**(63 - 144)**	**3.6**	**(0-30)**	**SW846 8081A**
Heptachlor	**88**	**(63 - 124)**			**SW846 8081A**
	94	**(63 - 124)**	**6.0**	**(0-30)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	81	(56 - 136)
	90	(56 - 136)
Tetrachloro-m-xylene	70	(49 - 111)
	73	(49 - 111)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJE091AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F160000-385 GJE091AD-LCSD
Prep Date.....: 06/16/04 **Analysis Date..:** 07/08/04
Prep Batch #...: 4168385 **Analysis Time..:** 18:13
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aldrin	**0.500**	**0.416**	**ug/L**	**83**		**SW846 8081A**
	0.500	**0.431**	**ug/L**	**86**	**3.7**	**SW846 8081A**
gamma-BHC (Lindane)	**0.500**	**0.458**	**ug/L**	**92**		**SW846 8081A**
	0.500	**0.479**	**ug/L**	**96**	**4.4**	**SW846 8081A**
4,4'-DDT	**0.500**	**0.525**	**ug/L**	**105**		**SW846 8081A**
	0.500	**0.545**	**ug/L**	**109**	**3.7**	**SW846 8081A**
Dieldrin	**0.500**	**0.476**	**ug/L**	**95**		**SW846 8081A**
	0.500	**0.483**	**ug/L**	**97**	**1.6**	**SW846 8081A**
Endrin	**0.500**	**0.473**	**ug/L**	**95**		**SW846 8081A**
	0.500	**0.491**	**ug/L**	**98**	**3.6**	**SW846 8081A**
Heptachlor	**0.500**	**0.442**	**ug/L**	**88**		**SW846 8081A**
	0.500	**0.469**	**ug/L**	**94**	**6.0**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	81	(56 - 136)
	90	(56 - 136)
Tetrachloro-m-xylene	70	(49 - 111)
	73	(49 - 111)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJLH61AA **Matrix.....:** WATER
MB Lot-Sample #: D4F180000-303

Prep Date.....: 06/18/04 **Analysis Time..:** 12:03

Analysis Date..: 07/09/04 **Prep Batch #...:** 4170303
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aldrin	ND	0.050	ug/L	SW846 8081A
alpha-BHC	ND	0.050	ug/L	SW846 8081A
beta-BHC	ND	0.050	ug/L	SW846 8081A
delta-BHC	ND	0.050	ug/L	SW846 8081A
gamma-BHC (Lindane)	ND	0.050	ug/L	SW846 8081A
alpha-Chlordane	ND	0.050	ug/L	SW846 8081A
gamma-Chlordane	ND	0.050	ug/L	SW846 8081A
4,4'-DDD	ND	0.050	ug/L	SW846 8081A
4,4'-DDE	ND	0.050	ug/L	SW846 8081A
4,4'-DDT	ND	0.050	ug/L	SW846 8081A
Diallate	ND	1.0	ug/L	SW846 8081A
Dieldrin	ND	0.050	ug/L	SW846 8081A
Endosulfan I	ND	0.050	ug/L	SW846 8081A
Endosulfan II	ND	0.050	ug/L	SW846 8081A
Endosulfan sulfate	ND	0.050	ug/L	SW846 8081A
Endrin	ND	0.050	ug/L	SW846 8081A
Endrin aldehyde	ND	0.050	ug/L	SW846 8081A
Endrin ketone	ND	0.050	ug/L	SW846 8081A
Heptachlor	ND	0.050	ug/L	SW846 8081A
Heptachlor epoxide	ND	0.050	ug/L	SW846 8081A
Isodrin	ND	0.10	ug/L	SW846 8081A
Kepone	ND	1.0	ug/L	SW846 8081A
Methoxychlor	ND	0.10	ug/L	SW846 8081A
Toxaphene	ND	5.0	ug/L	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	94	(12 - 153)
Tetrachloro-m-xylene	82	(55 - 113)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJLH61AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F180000-303 GJLH61AD-LCSD
Prep Date.....: 06/18/04 **Analysis Date..:** 07/09/04
Prep Batch #...: 4170303 **Analysis Time..:** 07:47
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aldrin	**104**	**(56 - 126)**			**SW846 8081A**
	105	**(56 - 126)**	**1.2**	**(0-30)**	**SW846 8081A**
gamma-BHC (Lindane)	**108**	**(72 - 126)**			**SW846 8081A**
	110	**(72 - 126)**	**1.9**	**(0-30)**	**SW846 8081A**
4,4'-DDT	**115**	**(76 - 135)**			**SW846 8081A**
	117	**(76 - 135)**	**2.3**	**(0-30)**	**SW846 8081A**
Dieldrin	**114**	**(80 - 132)**			**SW846 8081A**
	116	**(80 - 132)**	**1.7**	**(0-30)**	**SW846 8081A**
Endrin	**95**	**(63 - 144)**			**SW846 8081A**
	81	**(63 - 144)**	**17**	**(0-30)**	**SW846 8081A**
Heptachlor	**99**	**(63 - 124)**			**SW846 8081A**
	100	**(63 - 124)**	**0.96**	**(0-30)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	97	(56 - 136)
	100	(56 - 136)
Tetrachloro-m-xylene	90	(49 - 111)
	88	(49 - 111)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJLH61AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F180000-303 GJLH61AD-LCSD
Prep Date.....: 06/18/04 **Analysis Date..:** 07/09/04
Prep Batch #...: 4170303 **Analysis Time..:** 07:47
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aldrin	**0.500**	**0.519**	**ug/L**	**104**		**SW846 8081A**
	0.500	**0.525**	**ug/L**	**105**	**1.2**	**SW846 8081A**
gamma-BHC (Lindane)	**0.500**	**0.539**	**ug/L**	**108**		**SW846 8081A**
	0.500	**0.549**	**ug/L**	**110**	**1.9**	**SW846 8081A**
4,4'-DDT	**0.500**	**0.573**	**ug/L**	**115**		**SW846 8081A**
	0.500	**0.587**	**ug/L**	**117**	**2.3**	**SW846 8081A**
Dieldrin	**0.500**	**0.571**	**ug/L**	**114**		**SW846 8081A**
	0.500	**0.581**	**ug/L**	**116**	**1.7**	**SW846 8081A**
Endrin	**0.500**	**0.477**	**ug/L**	**95**		**SW846 8081A**
	0.500	**0.403**	**ug/L**	**81**	**17**	**SW846 8081A**
Heptachlor	**0.500**	**0.493**	**ug/L**	**99**		**SW846 8081A**
	0.500	**0.498**	**ug/L**	**100**	**0.96**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	97	(56 - 136)
	100	(56 - 136)
Tetrachloro-m-xylene	90	(49 - 111)
	88	(49 - 111)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJH7K1DH-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F170353-001 GJH7K1DJ-MSD
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 07/09/04
Prep Batch #...: 4170303 **Analysis Time..:** 09:12
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aldrin	**108**	**(60 - 119)**			**SW846 8081A**
	106	**(60 - 119)**	**2.0**	**(0-30)**	**SW846 8081A**
gamma-BHC (Lindane)	**109**	**(61 - 128)**			**SW846 8081A**
	106	**(61 - 128)**	**3.0**	**(0-30)**	**SW846 8081A**
4,4'-DDT	**117**	**(78 - 136)**			**SW846 8081A**
	113	**(78 - 136)**	**3.9**	**(0-30)**	**SW846 8081A**
Dieldrin	**116**	**(70 - 129)**			**SW846 8081A**
	114	**(70 - 129)**	**1.7**	**(0-30)**	**SW846 8081A**
Endrin	**80**	**(59 - 154)**			**SW846 8081A**
	85	**(59 - 154)**	**6.5**	**(0-30)**	**SW846 8081A**
Heptachlor	**102**	**(53 - 141)**			**SW846 8081A**
	103	**(53 - 141)**	**0.35**	**(0-30)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	100	(12 - 153)
	97	(12 - 153)
Tetrachloro-m-xylene	93	(55 - 113)
	93	(55 - 113)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJH7K1DH-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F170353-001 GJH7K1DJ-MSD
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 07/09/04
Prep Batch #...: 4170303 **Analysis Time..:** 09:12
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aldrin	**ND**	**0.476**	**0.513**	**ug/L**	**108**		**SW846 8081A**
	ND	**0.476**	**0.503**	**ug/L**	**106**	**2.0**	**SW846 8081A**
gamma-BHC (Lindane)	**ND**	**0.476**	**0.518**	**ug/L**	**109**		**SW846 8081A**
	ND	**0.476**	**0.502**	**ug/L**	**106**	**3.0**	**SW846 8081A**
4,4'-DDT	**ND**	**0.476**	**0.558**	**ug/L**	**117**		**SW846 8081A**
	ND	**0.476**	**0.537**	**ug/L**	**113**	**3.9**	**SW846 8081A**
Dieldrin	**ND**	**0.476**	**0.550**	**ug/L**	**116**		**SW846 8081A**
	ND	**0.476**	**0.541**	**ug/L**	**114**	**1.7**	**SW846 8081A**
Endrin	**ND**	**0.476**	**0.379**	**ug/L**	**80**		**SW846 8081A**
	ND	**0.476**	**0.404**	**ug/L**	**85**	**6.5**	**SW846 8081A**
Heptachlor	**ND**	**0.476**	**0.487**	**ug/L**	**102**		**SW846 8081A**
	ND	**0.476**	**0.489**	**ug/L**	**103**	**0.35**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	100	(12 - 153)
	97	(12 - 153)
Tetrachloro-m-xylene	93	(55 - 113)
	93	(55 - 113)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJCLW1AA **Matrix.....:** WATER
MB Lot-Sample #: D4F150000-450

Prep Date.....: 06/15/04 **Analysis Time..:** 21:27
Analysis Date..: 07/03/04 **Prep Batch #...:** 4167450
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	1.0	ug/L	SW846 8082
Aroclor 1221	ND	1.0	ug/L	SW846 8082
Aroclor 1232	ND	1.0	ug/L	SW846 8082
Aroclor 1242	ND	1.0	ug/L	SW846 8082
Aroclor 1248	ND	1.0	ug/L	SW846 8082
Aroclor 1254	ND	1.0	ug/L	SW846 8082
Aroclor 1260	ND	1.0	ug/L	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	75	(51 - 122)
Decachlorobiphenyl	93	(41 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJCLW1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F150000-450 GJCLW1AD-LCSD
Prep Date.....: 06/15/04 **Analysis Date..:** 07/03/04
Prep Batch #...: 4167450 **Analysis Time..:** 21:50
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**85**	**(58 - 128)**			**SW846 8082**
	86	**(58 - 128)**	**1.1**	**(0-30)**	**SW846 8082**
Aroclor 1260	**101**	**(69 - 140)**			**SW846 8082**
	101	**(69 - 140)**	**0.17**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	81	(42 - 120)
	83	(42 - 120)
Decachlorobiphenyl	88	(56 - 136)
	79	(56 - 136)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJCLW1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F150000-450 GJCLW1AD-LCSD
Prep Date.....: 06/15/04 **Analysis Date..:** 07/03/04
Prep Batch #...: 4167450 **Analysis Time..:** 21:50
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aroclor 1016	**2.00**	**1.71**	**ug/L**	**85**		**SW846 8082**
	2.00	**1.73**	**ug/L**	**86**	**1.1**	**SW846 8082**
Aroclor 1260	**2.00**	**2.03**	**ug/L**	**101**		**SW846 8082**
	2.00	**2.02**	**ug/L**	**101**	**0.17**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	81	(42 - 120)
	83	(42 - 120)
Decachlorobiphenyl	88	(56 - 136)
	79	(56 - 136)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: CANNON-4
MB Lot-Sample #: D4F160000-413
Work Order #...: GJE531AA
Matrix.....: WATER
Prep Date.....: 06/16/04
Analysis Time..: 04:06
Analysis Date..: 07/04/04
Prep Batch #...: 4168413
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	1.0	ug/L	SW846 8082
Aroclor 1221	ND	1.0	ug/L	SW846 8082
Aroclor 1232	ND	1.0	ug/L	SW846 8082
Aroclor 1242	ND	1.0	ug/L	SW846 8082
Aroclor 1248	ND	1.0	ug/L	SW846 8082
Aroclor 1254	ND	1.0	ug/L	SW846 8082
Aroclor 1260	ND	1.0	ug/L	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	59	(51 - 122)
Decachlorobiphenyl	89	(41 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJE531AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F160000-413 GJE531AD-LCSD
Prep Date.....: 06/16/04 **Analysis Date..:** 07/04/04
Prep Batch #...: 4168413 **Analysis Time..:** 04:28
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**81**	**(58 - 128)**			**SW846 8082**
	84	**(58 - 128)**	**2.6**	**(0-30)**	**SW846 8082**
Aroclor 1260	**96**	**(69 - 140)**			**SW846 8082**
	96	**(69 - 140)**	**0.44**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	70	(42 - 120)
	77	(42 - 120)
Decachlorobiphenyl	75	(56 - 136)
	88	(56 - 136)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJE531AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F160000-413 GJE531AD-LCSD
Prep Date.....: 06/16/04 **Analysis Date..:** 07/04/04
Prep Batch #...: 4168413 **Analysis Time..:** 04:28
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aroclor 1016	**2.00**	**1.63**	**ug/L**	**81**		**SW846 8082**
	2.00	**1.67**	**ug/L**	**84**	**2.6**	**SW846 8082**
Aroclor 1260	**2.00**	**1.92**	**ug/L**	**96**		**SW846 8082**
	2.00	**1.92**	**ug/L**	**96**	**0.44**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	70	(42 - 120)
	77	(42 - 120)
Decachlorobiphenyl	75	(56 - 136)
	88	(56 - 136)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: CANNON-4
MB Lot-Sample #: D4F180000-320

Work Order #...: GJLLD1AA

Matrix.....: WATER

Prep Date.....: 06/18/04

Analysis Time..: 15:39

Analysis Date..: 06/30/04
Prep Batch #...: 4170320
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	1.0	ug/L	SW846 8082
Aroclor 1221	ND	1.0	ug/L	SW846 8082
Aroclor 1232	ND	1.0	ug/L	SW846 8082
Aroclor 1242	ND	1.0	ug/L	SW846 8082
Aroclor 1248	ND	1.0	ug/L	SW846 8082
Aroclor 1254	ND	1.0	ug/L	SW846 8082
Aroclor 1260	ND	1.0	ug/L	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(51 - 122)
Decachlorobiphenyl	82	(41 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJLLD1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F180000-320 GJLLD1AD-LCSD
Prep Date.....: 06/18/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4170320 **Analysis Time..:** 16:02
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**88**	**(58 - 128)**			**SW846 8082**
	96	**(58 - 128)**	**9.1**	**(0-30)**	**SW846 8082**
Aroclor 1260	**95**	**(69 - 140)**			**SW846 8082**
	97	**(69 - 140)**	**2.2**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	80	(42 - 120)
	79	(42 - 120)
Decachlorobiphenyl	85	(56 - 136)
	86	(56 - 136)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJLLD1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F180000-320 GJLLD1AD-LCSD
Prep Date.....: 06/18/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4170320 **Analysis Time..:** 16:02
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aroclor 1016	**2.00**	**1.75**	**ug/L**	**88**		**SW846 8082**
	2.00	**1.92**	**ug/L**	**96**	**9.1**	**SW846 8082**
Aroclor 1260	**2.00**	**1.90**	**ug/L**	**95**		**SW846 8082**
	2.00	**1.94**	**ug/L**	**97**	**2.2**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	80	(42 - 120)
	79	(42 - 120)
Decachlorobiphenyl	85	(56 - 136)
	86	(56 - 136)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJH7K1DK-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F170353-001 GJH7K1DL-MSD
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4170320 **Analysis Time..:** 17:53
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**88**	**(53 - 130)**			**SW846 8082**
	86	**(53 - 130)**	**2.1**	**(0-30)**	**SW846 8082**
Aroclor 1260	**102**	**(58 - 150)**			**SW846 8082**
	99	**(58 - 150)**	**3.4**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(51 - 122)
	81	(51 - 122)
Decachlorobiphenyl	89	(41 - 138)
	87	(41 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJH7K1DK-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F170353-001 GJH7K1DL-MSD
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4170320 **Analysis Time..:** 17:53
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aroclor 1016	**ND**	**1.90**	**1.68**	**ug/L**	**88**		**SW846 8082**
	ND	**1.90**	**1.64**	**ug/L**	**86**	**2.1**	**SW846 8082**
Aroclor 1260	**ND**	**1.90**	**1.95**	**ug/L**	**102**		**SW846 8082**
	ND	**1.90**	**1.88**	**ug/L**	**99**	**3.4**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(51 - 122)
	81	(51 - 122)
Decachlorobiphenyl	89	(41 - 138)
	87	(41 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJC331AA **Matrix.....:** WATER
MB Lot-Sample #: D4F150000-559

Prep Date.....: 06/15/04 **Analysis Time..:** 05:50

Analysis Date..: 07/01/04 **Prep Batch #...:** 4167559
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-D	ND	4.0	ug/L	SW846 8151A
Dinoseb	ND	0.60	ug/L	SW846 8151A
2,4,5-TP (Silvex)	ND	1.0	ug/L	SW846 8151A
2,4,5-T	ND	1.0	ug/L	SW846 8151A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	81	(39 - 135)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJC331AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F150000-559 GJC331AD-LCSD
Prep Date.....: 06/15/04 **Analysis Date..:** 07/01/04
Prep Batch #...: 4167559 **Analysis Time..:** 07:13
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-D	**105**	**(15 - 140)**			**SW846 8151A**
	85	**(15 - 140)**	**20**	**(0-30)**	**SW846 8151A**
2,4,5-TP (Silvex)	**133**	**(45 - 165)**			**SW846 8151A**
	105	**(45 - 165)**	**23**	**(0-30)**	**SW846 8151A**
2,4,5-T	**138**	**(29 - 168)**			**SW846 8151A**
	109	**(29 - 168)**	**23**	**(0-30)**	**SW846 8151A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	104	(39 - 135)
	82	(39 - 135)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJC331AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F150000-559 GJC331AD-LCSD
Prep Date.....: 06/15/04 **Analysis Date..:** 07/01/04
Prep Batch #...: 4167559 **Analysis Time..:** 07:13
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
2,4-D	**3.20**	**3.35**	**ug/L**	**105**		**SW846 8151A**
	3.20	**2.73**	**ug/L**	**85**	**20**	**SW846 8151A**
2,4,5-TP (Silvex)	**0.800**	**1.07**	**ug/L**	**133**		**SW846 8151A**
	0.800	**0.843**	**ug/L**	**105**	**23**	**SW846 8151A**
2,4,5-T	**0.800**	**1.10**	**ug/L**	**138**		**SW846 8151A**
	0.800	**0.874**	**ug/L**	**109**	**23**	**SW846 8151A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	104	(39 - 135)
	82	(39 - 135)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJJGH1AA **Matrix.....:** WATER
MB Lot-Sample #: D4F170000-456

Prep Date.....: 06/17/04 **Analysis Time..:** 04:43
Analysis Date..: 06/24/04 **Prep Batch #...:** 4169456
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-D	ND	4.0	ug/L	SW846 8151A
Dinoseb	ND	0.60	ug/L	SW846 8151A
2,4,5-TP (Silvex)	ND	1.0	ug/L	SW846 8151A
2,4,5-T	ND	1.0	ug/L	SW846 8151A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	99	(39 - 135)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: CANNON-4
LCS Lot-Sample#: D4F170000-456
Prep Date.....: 06/17/04
Prep Batch #...: 4169456
Dilution Factor: 1

Work Order #...: GJJGH1AC-LCS
GJJGH1AD-LCSD
Analysis Date..: 06/24/04
Analysis Time..: 05:24

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-D	**96**	**(15 - 140)**			**SW846 8151A**
	99	**(15 - 140)**	**2.8**	**(0-30)**	**SW846 8151A**
2,4,5-TP (Silvex)	**126**	**(45 - 165)**			**SW846 8151A**
	128	**(45 - 165)**	**1.9**	**(0-30)**	**SW846 8151A**
2,4,5-T	**128**	**(29 - 168)**			**SW846 8151A**
	133	**(29 - 168)**	**3.9**	**(0-30)**	**SW846 8151A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	92	(39 - 135)
	95	(39 - 135)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJJGH1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F170000-456 GJJGH1AD-LCSD
Prep Date.....: 06/17/04 **Analysis Date..:** 06/24/04
Prep Batch #...: 4169456 **Analysis Time..:** 05:24
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
2,4-D	**3.20**	**3.07**	**ug/L**	**96**		**SW846 8151A**
	3.20	**3.16**	**ug/L**	**99**	**2.8**	**SW846 8151A**
2,4,5-TP (Silvex)	**0.800**	**1.01**	**ug/L**	**126**		**SW846 8151A**
	0.800	**1.02**	**ug/L**	**128**	**1.9**	**SW846 8151A**
2,4,5-T	**0.800**	**1.02**	**ug/L**	**128**		**SW846 8151A**
	0.800	**1.06**	**ug/L**	**133**	**3.9**	**SW846 8151A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	92	(39 - 135)
	95	(39 - 135)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: CANNON-4
MB Lot-Sample #: D4F180000-441

Work Order #...: GJMCA1AA

Matrix.....: WATER

Prep Date.....: 06/18/04
Prep Batch #...: 4170441

Analysis Time..: 19:06

Analysis Date..: 07/01/04
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-D	ND	4.0	ug/L	SW846 8151A
Dinoseb	ND	0.60	ug/L	SW846 8151A
2,4,5-TP (Silvex)	ND	1.0	ug/L	SW846 8151A
2,4,5-T	ND	1.0	ug/L	SW846 8151A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	85	(39 - 135)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJMCA1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F180000-441 GJMCA1AD-LCSD
Prep Date.....: 06/18/04 **Analysis Date..:** 07/01/04
Prep Batch #...: 4170441 **Analysis Time..:** 19:48
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-D	**96**	**(15 - 140)**			**SW846 8151A**
	100	**(15 - 140)**	**4.2**	**(0-30)**	**SW846 8151A**
2,4,5-TP (Silvex)	**124**	**(45 - 165)**			**SW846 8151A**
	136	**(45 - 165)**	**9.1**	**(0-30)**	**SW846 8151A**
2,4,5-T	**126**	**(29 - 168)**			**SW846 8151A**
	136	**(29 - 168)**	**7.4**	**(0-30)**	**SW846 8151A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	88	(39 - 135)
	86	(39 - 135)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJMCA1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F180000-441 GJMCA1AD-LCSD
Prep Date.....: 06/18/04 **Analysis Date..:** 07/01/04
Prep Batch #...: 4170441 **Analysis Time..:** 19:48
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
2,4-D	**3.20**	**3.06**	**ug/L**	**96**		**SW846 8151A**
	3.20	**3.19**	**ug/L**	**100**	**4.2**	**SW846 8151A**
2,4, TP (Silvex)	**0.800**	**0.992**	**ug/L**	**124**		**SW846 8151A**
	0.800	**1.09**	**ug/L**	**136**	**9.1**	**SW846 8151A**
2,4,5-T	**0.800**	**1.01**	**ug/L**	**126**		**SW846 8151A**
	0.800	**1.09**	**ug/L**	**136**	**7.4**	**SW846 8151A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	88	(39 - 135)
	86	(39 - 135)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJH7K1DM-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F170353-001 GJH7K1DN-MSD
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04
Prep Date.....: 06/18/04 **Analysis Date..:** 07/01/04
Prep Batch #...: 4170441 **Analysis Time..:** 22:35
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-D	**105**	**(15 - 140)**			**SW846 8151A**
	89	**(15 - 140)**	**17**	**(0-30)**	**SW846 8151A**
2,4,5-TP (Silvex)	**131**	**(45 - 165)**			**SW846 8151A**
	116	**(45 - 165)**	**13**	**(0-30)**	**SW846 8151A**
2,4,5-T	**133**	**(29 - 168)**			**SW846 8151A**
	115	**(29 - 168)**	**15**	**(0-30)**	**SW846 8151A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	101	(39 - 135)
	91	(39 - 135)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: CANNON-4 **Work Order #...:** GJH7K1DM-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F170353-001 GJH7K1DN-MSD
Date Sample...: 06/16/04 09:05 **Date Received..:** 06/17/04
Prep Date....: 06/18/04 **Analysis Date..:** 07/01/04
Prep Batch #...: 4170441 **Analysis Time..:** 22:35
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4-D	**ND**	**3.04**	**3.20**	**ug/L**	**105**		**SW846 8151A**
	ND	**3.03**	**2.69**	**ug/L**	**89**	**17**	**SW846 8151A**
2,4,5-TP (Silvex)	**ND**	**0.761**	**0.996**	**ug/L**	**131**		**SW846 8151A**
	ND	**0.758**	**0.876**	**ug/L**	**116**	**13**	**SW846 8151A**
2,4,5-T	**ND**	**0.761**	**1.01**	**ug/L**	**133**		**SW846 8151A**
	ND	**0.758**	**0.875**	**ug/L**	**115**	**15**	**SW846 8151A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	101	(39 - 135)
	91	(39 - 135)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: CANNON-4 **Work Order #...:** GJN741AA **Matrix.....:** WATER
MB Lot-Sample #: G4F210000-377

Prep Date.....: 06/21/04 **Analysis Time..:** 11:23

Analysis Date..: 06/23/04 **Prep Batch #...:** 4173377
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Total HxCDD	ND	0.17	ng/L	SW846 8280A
Total HxCDF	ND	0.26	ng/L	SW846 8280A
Total PeCDD	ND	1.8	ng/L	SW846 8280A
Total PeCDF	ND	0.22	ng/L	SW846 8280A
2,3,7,8-TCDD	ND	0.10	ng/L	SW846 8280A
Total TCDD	ND	0.10	ng/L	SW846 8280A
Total TCDF	ND	0.16	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	72	(25 - 150)
13C-2,3,7,8-TCDF	73	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	77	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	73	(25 - 150)
13C-OCDD	69	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	93	(25 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: CANNON-4 **Work Order #...:** GJN741AC **Matrix.....:** WATER
LCS Lot-Sample#: G4F210000-377
Prep Date.....: 06/21/04 **Analysis Date..:** 06/23/04
Prep Batch #...: 4173377 **Analysis Time..:** 12:11
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,2,3,7,8-PeCDD	**94**	**(66 - 140)**	**SW846 8280A**
1,2,3,6,7,8-HxCDD	**94**	**(73 - 126)**	**SW846 8280A**
1,2,3,4,6,7,8-HpCDD	**100**	**(70 - 129)**	**SW846 8280A**
OCDD	**93**	**(58 - 118)**	**SW846 8280A**
2,3,7,8-TCDF	**88**	**(21 - 129)**	**SW846 8280A**
1,2,3,7,8-PeCDF	**107**	**(70 - 144)**	**SW846 8280A**
1,2,3,6,7,8-HxCDF	**100**	**(67 - 125)**	**SW846 8280A**
1,2,3,4,6,7,8-HpCDF	**103**	**(68 - 123)**	**SW846 8280A**
2,3,7,8-TCDD	**97**	**(67 - 127)**	**SW846 8280A**
OCDF	**92**	**(59 - 119)**	**SW846 8280A**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	73	(25 - 150)
13C-2,3,7,8-TCDF	70	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	78	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	72	(25 - 150)
13C-OCDD	81	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	96	(25 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: CANNON-4 **Work Order #...:** GJN741AC **Matrix.....:** WATER
LCS Lot-Sample#: G4F210000-377
Prep Date.....: 06/21/04 **Analysis Date..:** 06/23/04
Prep Batch #...: 4173377 **Analysis Time..:** 12:11
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,2,3,7,8-PeCDD	**62.5**	**58.5**	**ng/L**	**94**	**SW846 8280A**
1,2,3,6,7,8-HxCDD	**62.5**	**58.6**	**ng/L**	**94**	**SW846 8280A**
1,2,3,4,6,7,8-HpCDD	**62.5**	**62.2**	**ng/L**	**100**	**SW846 8280A**
OCDD	**125**	**117**	**ng/L**	**93**	**SW846 8280A**
2,3,7,8-TCDF	**25.0**	**21.9**	**ng/L**	**88**	**SW846 8280A**
1,2,3,7,8-PeCDF	**62.5**	**66.8**	**ng/L**	**107**	**SW846 8280A**
1,2,3,6,7,8-HxCDF	**62.5**	**62.3**	**ng/L**	**100**	**SW846 8280A**
1,2,3,4,6,7,8-HpCDF	**62.5**	**64.1**	**ng/L**	**103**	**SW846 8280A**
2,3,7,8-TCDD	**25.0**	**24.1**	**ng/L**	**97**	**SW846 8280A**
OCDF	**125**	**115**	**ng/L**	**92**	**SW846 8280A**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	73	(25 - 150)
13C-2,3,7,8-TCDF	70	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	78	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	72	(25 - 150)
13C-OCDD	81	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	96	(25 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: CANNON-4 **Work Order #...:** GJH7K1D4-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F170353-001 GJH7K1D5-MSD
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04
Prep Date.....: 06/21/04 **Analysis Date..:** 06/23/04
Prep Batch #...: 4173377 **Analysis Time..:** 16:05
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2,3,7,8-PeCDD	94	(66 - 140)			SW846 8280A
	92	(66 - 140)	1.6	(0-72)	SW846 8280A
1,2,3,6,7,8-HxCDD	94	(73 - 126)			SW846 8280A
	96	(73 - 126)	2.1	(0-24)	SW846 8280A
1,2,3,4,6,7,8-HpCDD	98	(70 - 129)			SW846 8280A
	94	(70 - 129)	4.9	(0-20)	SW846 8280A
OCDD	87	(58 - 118)			SW846 8280A
	89	(58 - 118)	2.1	(0-21)	SW846 8280A
2,3,7,8-TCDF	73	(21 - 129)			SW846 8280A
	87	(21 - 129)	17	(0-57)	SW846 8280A
1,2,3,7,8-PeCDF	107	(70 - 144)			SW846 8280A
	104	(70 - 144)	3.0	(0-64)	SW846 8280A
1,2,3,6,7,8-HxCDF	94	(67 - 125)			SW846 8280A
	99	(67 - 125)	4.9	(0-32)	SW846 8280A
1,2,3,4,6,7,8-HpCDF	97	(68 - 123)			SW846 8280A
	99	(68 - 123)	2.5	(0-23)	SW846 8280A
2,3,7,8-TCDD	91	(67 - 127)			SW846 8280A
	97	(67 - 127)	6.2	(0-57)	SW846 8280A
OCDF	84	(59 - 119)			SW846 8280A
	87	(59 - 119)	3.1	(0-24)	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	90	(25 - 150)
	83	(25 - 150)
13C-2,3,7,8-TCDF	86	(25 - 150)
	82	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	91	(25 - 150)
	87	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	88	(25 - 150)
	82	(25 - 150)
13C-OCDD	108	(25 - 150)
	98	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	101	(25 - 150)
	101	(25 - 150)

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: CANNON-4 **Work Order #...:** GJH7K1D4-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F170353-001 GJH7K1D5-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: CANNON-4 **Work Order #...:** GJH7K1D4-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F170353-001 GJH7K1D5-MSD
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04
Prep Date.....: 06/21/04 **Analysis Date..:** 06/23/04
Prep Batch #...: 4173377 **Analysis Time..:** 16:05
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,2,3,7,8-PeCDD	ND	62.5	58.5	ng/L	94		SW846 8280A
	ND	62.5	57.6	ng/L	92	1.6	SW846 8280A
1,2,3,6,7,8-HxCDD	ND	62.5	58.6	ng/L	94		SW846 8280A
	ND	62.5	59.9	ng/L	96	2.1	SW846 8280A
1,2,3,4,6,7,8-HpCDD	ND	62.5	61.4	ng/L	98		SW846 8280A
	ND	62.5	58.4	ng/L	94	4.9	SW846 8280A
OCDD	ND	125	109	ng/L	87		SW846 8280A
	ND	125	111	ng/L	89	2.1	SW846 8280A
2,3,7,8-TCDF	ND	25.0	18.2	ng/L	73		SW846 8280A
	ND	25.0	21.7	ng/L	87	17	SW846 8280A
1,2,3,7,8-PeCDF	ND	62.5	67.1	ng/L	107		SW846 8280A
	ND	62.5	65.1	ng/L	104	3.0	SW846 8280A
1,2,3,6,7,8-HxCDF	ND	62.5	58.8	ng/L	94		SW846 8280A
	ND	62.5	61.7	ng/L	99	4.9	SW846 8280A
1,2,3,4,6,7,8-HpCDF	ND	62.5	60.6	ng/L	97		SW846 8280A
	ND	62.5	62.1	ng/L	99	2.5	SW846 8280A
2,3,7,8-TCDD	ND	25.0	22.8	ng/L	91		SW846 8280A
	ND	25.0	24.3	ng/L	97	6.2	SW846 8280A
OCDF	ND	125	105	ng/L	84		SW846 8280A
	ND	125	109	ng/L	87	3.1	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	90	(25 - 150)
	83	(25 - 150)
13C-2,3,7,8-TCDF	86	(25 - 150)
	82	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	91	(25 - 150)
	87	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	88	(25 - 150)
	82	(25 - 150)
13C-OCDD	108	(25 - 150)
	98	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	101	(25 - 150)
	101	(25 - 150)

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: CANNON-4 **Work Order #...:** GJH7K1D4-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F170353-001 GJH7K1D5-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: CANNON-4 **Work Order #...:** GJRL91AA **Matrix.....:** WATER
MB Lot-Sample #: G4F220000-488

Prep Date.....: 06/22/04 **Analysis Time..:** 17:29
Analysis Date..: 06/25/04 **Prep Batch #...:** 4174488
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Total HxCDD	ND	0.17	ng/L	SW846 8280A
Total HxCDF	ND	0.44	ng/L	SW846 8280A
Total PeCDD	ND	2.2	ng/L	SW846 8280A
Total PeCDF	ND	0.24	ng/L	SW846 8280A
2,3,7,8-TCDD	ND	0.19	ng/L	SW846 8280A
Total TCDD	ND	0.19	ng/L	SW846 8280A
Total TCDF	ND	0.61	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	75	(25 - 150)
13C-2,3,7,8-TCDF	82	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	75	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	87	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	85	(25 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: CANNON-4 **Work Order #...:** GJRL91AC **Matrix.....:** WATER
LCS Lot-Sample#: G4F220000-488
Prep Date.....: 06/22/04 **Analysis Date..:** 06/25/04
Prep Batch #...: 4174488 **Analysis Time..:** 18:17
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,2,3,7,8-PeCDD	**100**	**(66 - 140)**	**SW846 8280A**
1,2,3,6,7,8-HxCDD	**91**	**(73 - 126)**	**SW846 8280A**
1,2,3,4,6,7,8-HpCDD	**101**	**(70 - 129)**	**SW846 8280A**
OCDD	**91**	**(58 - 118)**	**SW846 8280A**
2,3,7,8-TCDF	**89**	**(21 - 129)**	**SW846 8280A**
1,2,3,7,8-PeCDF	**96**	**(70 - 144)**	**SW846 8280A**
1,2,3,6,7,8-HxCDF	**89**	**(67 - 125)**	**SW846 8280A**
1,2,3,4,6,7,8-HpCDF	**100**	**(68 - 123)**	**SW846 8280A**
2,3,7,8-TCDD	**99**	**(67 - 127)**	**SW846 8280A**
OCDF	**85**	**(59 - 119)**	**SW846 8280A**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	86	(25 - 150)
13C-2,3,7,8-TCDF	88	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	90	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	93	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	89	(25 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: CANNON-4 **Work Order #...:** GJRL91AC **Matrix.....:** WATER
LCS Lot-Sample#: G4F220000-488
Prep Date.....: 06/22/04 **Analysis Date..:** 06/25/04
Prep Batch #...: 4174488 **Analysis Time..:** 18:17
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,2,3,7,8-PeCDD	**62.5**	**62.4**	**ng/L**	**100**	**SW846 8280A**
1,2,3,6,7 HxCDD	**62.5**	**57.1**	**ng/L**	**91**	**SW846 8280A**
1,2,3,4,6, 8-HpCDD	**62.5**	**63.2**	**ng/L**	**101**	**SW846 8280A**
OCDD	**125**	**113**	**ng/L**	**91**	**SW846 8280A**
2,3,7,8-TCDF	**25.0**	**22.2**	**ng/L**	**89**	**SW846 8280A**
1,2,3,7,8-PeCDF	**62.5**	**59.7**	**ng/L**	**96**	**SW846 8280A**
1,2,3,6,7,8-HxCDF	**62.5**	**55.3**	**ng/L**	**89**	**SW846 8280A**
1,2,3,4,6,7,8-HpCDF	**62.5**	**62.4**	**ng/L**	**100**	**SW846 8280A**
2,3,7,8-TCDD	**25.0**	**24.8**	**ng/L**	**99**	**SW846 8280A**
OCDF	**125**	**107**	**ng/L**	**85**	**SW846 8280A**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	86	(25 - 150)
13C-2,3,7,8-TCDF	88	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	90	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	93	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	89	(25 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

HPLC

Client Lot #...: CANNON-4
MB Lot-Sample #: D4F150000-463

Work Order #...: GJCM21AA

Matrix.....: WATER

Prep Date.....: 06/15/04

Analysis Time..: 18:50

Analysis Date..: 06/25/04
Prep Batch #...: 4167463
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	1.0	ug/L	SW846 8310
Acenaphthylene	ND	1.0	ug/L	SW846 8310
Anthracene	ND	0.20	ug/L	SW846 8310
Benzo(a)anthracene	ND	0.20	ug/L	SW846 8310
Benzo(b)fluoranthene	ND	0.10	ug/L	SW846 8310
Benzo(k)fluoranthene	ND	0.10	ug/L	SW846 8310
Benzo(ghi)perylene	ND	0.20	ug/L	SW846 8310
Benzo(a)pyrene	ND	0.10	ug/L	SW846 8310
Chrysene	ND	0.20	ug/L	SW846 8310
Dibenzo(a,h)anthracene	ND	0.20	ug/L	SW846 8310
Fluoranthene	ND	0.20	ug/L	SW846 8310
Fluorene	ND	0.20	ug/L	SW846 8310
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	SW846 8310
2-Methylnaphthalene	ND	1.0	ug/L	SW846 8310
1-Methylnaphthalene	ND	1.0	ug/L	SW846 8310
Naphthalene	ND	1.0	ug/L	SW846 8310
Phenanthrene	ND	0.20	ug/L	SW846 8310
Pyrene	ND	0.20	ug/L	SW846 8310

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	99	(72 - 102)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: CANNON-4 **Work Order #...:** GJCM21AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F150000-463 GJCM21AD-LCSD
Prep Date.....: 06/15/04 **Analysis Date..:** 06/25/04
Prep Batch #...: 4167463 **Analysis Time..:** 19:21
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzo(a)pyrene	**85**	**(70 - 117)**			**SW846 8310**
	82	**(70 - 117)**	**3.2**	**(0-21)**	**SW846 8310**
Fluorene	**87**	**(72 - 109)**			**SW846 8310**
	85	**(72 - 109)**	**2.8**	**(0-22)**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**90**	**(66 - 116)**			**SW846 8310**
	89	**(66 - 116)**	**0.83**	**(0-24)**	**SW846 8310**
Naphthalene	**80**	**(64 - 107)**			**SW846 8310**
	78	**(64 - 107)**	**2.7**	**(0-23)**	**SW846 8310**
Pyrene	**94**	**(80 - 118)**			**SW846 8310**
	90	**(80 - 118)**	**4.7**	**(0-23)**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl [illegible]4	97	(72 - 102)
	92	(72 - 102)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: CANNON-4 **Work Order #...:** GJCM21AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F150000-463 GJCM21AD-LCSD
Prep Date.....: 06/15/04 **Analysis Date..:** 06/25/04
Prep Batch #...: 4167463 **Analysis Time..:** 19:21
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzo(a)pyrene	**20.0**	**17.0**	**ug/L**	**85**		**SW846 8310**
	20.0	**16.5**	**ug/L**	**82**	**3.2**	**SW846 8310**
Fluorene	**20.0**	**17.4**	**ug/L**	**87**		**SW846 8310**
	20.0	**17.0**	**ug/L**	**85**	**2.8**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**20.0**	**18.0**	**ug/L**	**90**		**SW846 8310**
	20.0	**17.8**	**ug/L**	**89**	**0.83**	**SW846 8310**
Naphthalene	**20.0**	**16.1**	**ug/L**	**80**		**SW846 8310**
	20.0	**15.6**	**ug/L**	**78**	**2.7**	**SW846 8310**
Pyrene	**20.0**	**18.8**	**ug/L**	**94**		**SW846 8310**
	20.0	**17.9**	**ug/L**	**90**	**4.7**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	97	(72 - 102)
	92	(72 - 102)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

HPLC

Client Lot #...: CANNON-4 **Work Order #...:** GJE691AA **Matrix.....:** WATER
MB Lot-Sample #: D4F160000-422

Prep Date.....: 06/16/04 **Analysis Time..:** 17:21
Analysis Date..: 06/29/04 **Prep Batch #...:** 4168422
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	1.0	ug/L	SW846 8310
Acenaphthylene	ND	1.0	ug/L	SW846 8310
Anthracene	ND	0.20	ug/L	SW846 8310
Benzo(a)anthracene	ND	0.20	ug/L	SW846 8310
Benzo(b)fluoranthene	ND	0.10	ug/L	SW846 8310
Benzo(k)fluoranthene	ND	0.10	ug/L	SW846 8310
Benzo(ghi)perylene	ND	0.20	ug/L	SW846 8310
Benzo(a)pyrene	ND	0.10	ug/L	SW846 8310
Chrysene	ND	0.20	ug/L	SW846 8310
Dibenzo(a,h)anthracene	ND	0.20	ug/L	SW846 8310
Fluoranthene	ND	0.20	ug/L	SW846 8310
Fluorene	ND	0.20	ug/L	SW846 8310
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	SW846 8310
2-Meth naphthalene	ND	1.0	ug/L	SW846 8310
1-Meth naphthalene	ND	1.0	ug/L	SW846 8310
Naphthalene	ND	1.0	ug/L	SW846 8310
Phenanthrene	ND	0.20	ug/L	SW846 8310
Pyrene	ND	0.20	ug/L	SW846 8310

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	94	(72 - 102)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: CANNON-4 **Work Order #...:** GJE691AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F160000-422 GJE691AD-LCSD
Prep Date.....: 06/16/04 **Analysis Date..:** 06/29/04
Prep Batch #...: 4168422 **Analysis Time..:** 17:51
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzo(a)pyrene	**82**	**(70 - 117)**			**SW846 8310**
	84	**(70 - 117)**	**2.5**	**(0-21)**	**SW846 8310**
Fluorene	**84**	**(72 - 109)**			**SW846 8310**
	87	**(72 - 109)**	**3.6**	**(0-22)**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**88**	**(66 - 116)**			**SW846 8310**
	91	**(66 - 116)**	**3.7**	**(0-24)**	**SW846 8310**
Naphthalene	**77**	**(64 - 107)**			**SW846 8310**
	81	**(64 - 107)**	**5.0**	**(0-23)**	**SW846 8310**
Pyrene	**91**	**(80 - 118)**			**SW846 8310**
	91	**(80 - 118)**	**0.32**	**(0-23)**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	94	(72 - 102)
	94	(72 - 102)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: CANNON-4 **Work Order #...:** GJE691AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F160000-422 GJE691AD-LCSD
Prep Date.....: 06/16/04 **Analysis Date..:** 06/29/04
Prep Batch #...: 4168422 **Analysis Time..:** 17:51
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzo(a)pyrene	**20.0**	**16.4**	**ug/L**	**82**		**SW846 8310**
	20.0	**16.8**	**ug/L**	**84**	**2.5**	**SW846 8310**
Fluorene	**20.0**	**16.8**	**ug/L**	**84**		**SW846 8310**
	20.0	**17.5**	**ug/L**	**87**	**3.6**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**20.0**	**17.5**	**ug/L**	**88**		**SW846 8310**
	20.0	**18.2**	**ug/L**	**91**	**3.7**	**SW846 8310**
Naphthalene	**20.0**	**15.3**	**ug/L**	**77**		**SW846 8310**
	20.0	**16.1**	**ug/L**	**81**	**5.0**	**SW846 8310**
Pyrene	**20.0**	**18.2**	**ug/L**	**91**		**SW846 8310**
	20.0	**18.3**	**ug/L**	**91**	**0.32**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	94	(72 - 102)
	94	(72 - 102)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

HPLC

Client Lot #...: CANNON-4 **Work Order #...:** GJQXV1AA **Matrix.....:** WATER
MB Lot-Sample #: D4F220000-278

Prep Date.....: 06/22/04 **Analysis Time..:** 16:43

Analysis Date..: 06/28/04 **Prep Batch #...:** 4174278
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	1.0	ug/L	SW846 8310
Acenaphthylene	ND	1.0	ug/L	SW846 8310
Anthracene	ND	0.20	ug/L	SW846 8310
Benzo(a)anthracene	ND	0.20	ug/L	SW846 8310
Benzo(b)fluoranthene	ND	0.10	ug/L	SW846 8310
Benzo(k)fluoranthene	ND	0.10	ug/L	SW846 8310
Benzo(ghi)perylene	ND	0.20	ug/L	SW846 8310
Benzo(a)pyrene	ND	0.10	ug/L	SW846 8310
Chrysene	ND	0.20	ug/L	SW846 8310
Dibenzo(a,h)anthracene	ND	0.20	ug/L	SW846 8310
Fluoranthene	ND	0.20	ug/L	SW846 8310
Fluorene	ND	0.20	ug/L	SW846 8310
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	SW846 8310
2-Methylnaphthalene	ND	1.0	ug/L	SW846 8310
1-Methylnaphthalene	ND	1.0	ug/L	SW846 8310
Naphthalene	ND	1.0	ug/L	SW846 8310
Phenanthrene	ND	0.20	ug/L	SW846 8310
Pyrene	ND	0.20	ug/L	SW846 8310

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	86	(72 - 102)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: CANNON-4 **Work Order #...:** GJQXV1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F220000-278 GJQXV1AD-LCSD
Prep Date.....: 06/22/04 **Analysis Date..:** 06/28/04
Prep Batch #...: 4174278 **Analysis Time..:** 17:14
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzo(a)pyrene	**76**	**(70 - 117)**			**SW846 8310**
	80	**(70 - 117)**	**4.8**	**(0-21)**	**SW846 8310**
Fluorene	**85**	**(72 - 109)**			**SW846 8310**
	93	**(72 - 109)**	**8.6**	**(0-22)**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**87**	**(66 - 116)**			**SW846 8310**
	92	**(66 - 116)**	**5.0**	**(0-24)**	**SW846 8310**
Naphthalene	**76**	**(64 - 107)**			**SW846 8310**
	85	**(64 - 107)**	**11**	**(0-23)**	**SW846 8310**
Pyrene	**89**	**(80 - 118)**			**SW846 8310**
	94	**(80 - 118)**	**6.3**	**(0-23)**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	88	(72 - 102)
	94	(72 - 102)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: CANNON-4 **Work Order #...:** GJQXV1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D4F220000-278 GJQXV1AD-LCSD
Prep Date.....: 06/22/04 **Analysis Date..:** 06/28/04
Prep Batch #...: 4174278 **Analysis Time..:** 17:14
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzo(a)pyrene	**20.0**	**15.2**	**ug/L**	**76**		**SW846 8310**
	20.0	**15.9**	**ug/L**	**80**	**4.8**	**SW846 8310**
Fluorene	**20.0**	**17.0**	**ug/L**	**85**		**SW846 8310**
	20.0	**18.5**	**ug/L**	**93**	**8.6**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**20.0**	**17.4**	**ug/L**	**87**		**SW846 8310**
	20.0	**18.3**	**ug/L**	**92**	**5.0**	**SW846 8310**
Naphthalene	**20.0**	**15.2**	**ug/L**	**76**		**SW846 8310**
	20.0	**17.0**	**ug/L**	**85**	**11**	**SW846 8310**
Pyrene	**20.0**	**17.7**	**ug/L**	**89**		**SW846 8310**
	20.0	**18.9**	**ug/L**	**94**	**6.3**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	88	(72 - 102)
	94	(72 - 102)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: CANNON-4 **Work Order #...:** GJH7K1DP-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F170353-001 GJH7K1DQ-MSD
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04
Prep Date.....: 06/22/04 **Analysis Date..:** 06/28/04
Prep Batch #...: 4174278 **Analysis Time..:** 18:45
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzo(a)pyrene	**67 a**	**(70 - 117)**			**SW846 8310**
	64 a	**(70 - 117)**	**4.4**	**(0-21)**	**SW846 8310**
Fluorene	**89**	**(72 - 109)**			**SW846 8310**
	81	**(72 - 109)**	**10**	**(0-22)**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**74**	**(66 - 116)**			**SW846 8310**
	71	**(66 - 116)**	**4.4**	**(0-24)**	**SW846 8310**
Naphthalene	**82**	**(64 - 107)**			**SW846 8310**
	75	**(64 - 107)**	**10**	**(0-23)**	**SW846 8310**
Pyrene	**92**	**(80 - 118)**			**SW846 8310**
	84	**(80 - 118)**	**9.1**	**(0-23)**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	91	(72 - 102)
	84	(72 - 102)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: CANNON-4 **Work Order #...:** GJH7K1DP-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F170353-001 GJH7K1DQ-MSD
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04
Prep Date.....: 06/22/04 **Analysis Date..:** 06/28/04
Prep Batch #...: 4174278 **Analysis Time..:** 18:45
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzo(a)pyrene	**ND**	**19.0**	**12.7**	**ug/L**	**67 a**		**SW846 8310**
	ND	**18.9**	**12.1**	**ug/L**	**64 a**	**4.4**	**SW846 8310**
Fluorene	**ND**	**19.0**	**16.9**	**ug/L**	**89**		**SW846 8310**
	ND	**18.9**	**15.3**	**ug/L**	**81**	**10**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**ND**	**19.0**	**14.0**	**ug/L**	**74**		**SW846 8310**
	ND	**18.9**	**13.4**	**ug/L**	**71**	**4.4**	**SW846 8310**
Naphthalene	**ND**	**19.0**	**15.7**	**ug/L**	**82**		**SW846 8310**
	ND	**18.9**	**14.2**	**ug/L**	**75**	**10**	**SW846 8310**
Pyrene	**ND**	**19.0**	**17.5**	**ug/L**	**92**		**SW846 8310**
	ND	**18.9**	**16.0**	**ug/L**	**84**	**9.1**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	91	(72 - 102)
	84	(72 - 102)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: CANNON-4 **Work Order #...:** GJL991AV-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F180392-004 GJL991AW-MSD
Date Sampled...: 06/16/04 10:50 **Date Received..:** 06/18/04
Prep Date.....: 06/22/04 **Analysis Date..:** 06/29/04
Prep Batch #...: 4174278 **Analysis Time..:** 02:24
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzo(a)pyrene	**63 a**	**(70 - 117)**			**SW846 8310**
	77	**(70 - 117)**	**21**	**(0-21)**	**SW846 8310**
Fluorene	**83**	**(72 - 109)**			**SW846 8310**
	94	**(72 - 109)**	**14**	**(0-22)**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**64 a**	**(66 - 116)**			**SW846 8310**
	73	**(66 - 116)**	**14**	**(0-24)**	**SW846 8310**
Naphthalene	**73**	**(64 - 107)**			**SW846 8310**
	82	**(64 - 107)**	**13**	**(0-23)**	**SW846 8310**
Pyrene	**89**	**(80 - 118)**			**SW846 8310**
	102	**(80 - 118)**	**14**	**(0-23)**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	89	(72 - 102)
	99	(72 - 102)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: CANNON-4 **Work Order #...:** GJL991AV-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F180392-004 GJL991AW-MSD
Date Sampled...: 06/16/04 10:50 **Date Received..:** 06/18/04
Prep Date.....: 06/22/04 **Analysis Date..:** 06/29/04
Prep Batch #...: 4174278 **Analysis Time..:** 02:24
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzo(a)pyrene	**ND**	**21.6**	**13.7**	**ug/L**	**63 a**		**SW846 8310**
	ND	**21.9**	**16.9**	**ug/L**	**77**	**21**	**SW846 8310**
Fluorene	**ND**	**21.6**	**17.9**	**ug/L**	**83**		**SW846 8310**
	ND	**21.9**	**20.6**	**ug/L**	**94**	**14**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**ND**	**21.6**	**13.8**	**ug/L**	**64 a**		**SW846 8310**
	ND	**21.9**	**15.9**	**ug/L**	**73**	**14**	**SW846 8310**
Naphthalene	**ND**	**21.6**	**15.8**	**ug/L**	**73**		**SW846 8310**
	ND	**21.9**	**18.0**	**ug/L**	**82**	**13**	**SW846 8310**
Pyrene	**0.046**	**21.6**	**19.4**	**ug/L**	**89**		**SW846 8310**
	0.046	**21.9**	**22.3**	**ug/L**	**102**	**14**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	89	(72 - 102)
	99	(72 - 102)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

METHOD BLANK REPORT

HPLC

Client Lot #...: CANNON-4 **Work Order #...:** GJWXX1AA **Matrix.....:** WATER
MB Lot-Sample #: R4F240000-194

Prep Date.....: 06/29/04 **Analysis Time..:** 10:34

Analysis Date..: 06/30/04 **Prep Batch #...:** 4176194
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Perchlorate	ND	0.010	ug/L	SW846 8321A

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: CANNON-4 **Work Order #...:** GJWXX1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: R4F240000-194 GJWXX1AD-LCSD
Prep Date.....: 06/29/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4176194 **Analysis Time..:** 10:53
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Perchlorate	**113**	**(70 - 130)**			**SW846 8321A**
	105	**(70 - 130)**	**7.4**	**(0-30)**	**SW846 8321A**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: CANNON-4 **Work Order #...:** GJWXX1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: R4F240000-194 GJWXX1AD-LCSD
Prep Date.....: 06/29/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4176194 **Analysis Time..:** 10:53
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Perchlorate	**0.100**	**0.113**	**ug/L**	**113**		**SW846 8321A**
	0.100	**0.105**	**ug/L**	**105**	**7.4**	**SW846 8321A**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: CANNON-4 **Work Order #...:** GJFCR1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F160313-001 GJFCR1AD-MSD
Date Sampled...: 08/22/96 18:20 **Date Received..:** 06/16/04
Prep Date.....: 06/29/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4176194 **Analysis Time..:** 15:42
Dilution Factor: 5

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Perchlorate	**97**	**(50 - 150)**			**SW846 8321A**
	103	**(50 - 150)**	**3.3**	**(0-40)**	**SW846 8321A**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: CANNON-4 **Work Order #...:** GJFCR1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F160313-001 GJFCR1AD-MSD
Date Sampled...: 08/22/96 18:20 **Date Received..:** 06/16/04
Prep Date.....: 06/29/04 **Analysis Date..:** 06/30/04
Prep Batch #...: 4176194 **Analysis Time..:** 15:42
Dilution Factor: 5

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Perchlorate	**0.38**	**0.500**	**0.869**	**ug/L**	**97**		**SW846 8321A**
	0.38	**0.500**	**0.898**	**ug/L**	**103**	**3.3**	**SW846 8321A**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

HPLC

Client Lot #...: CANNON-4 **Work Order #...:** GJ9X71AA **Matrix.....:** WATER
MB Lot-Sample #: R4F300000-292

Prep Date.....: 06/30/04 **Analysis Time..:** 00:22

Analysis Date..: 07/01/04 **Prep Batch #...:** 4182292
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Perchlorate	**0.0018 J**	**0.010**	**ug/L**	**SW846 8321A**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: CANNON-4 **Work Order #...:** GJ9X71AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: R4F300000-292 GJ9X71AD-LCSD
Prep Date.....: 06/30/04 **Analysis Date..:** 07/01/04
Prep Batch #...: 4182292 **Analysis Time..:** 00:41
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Perchlorate	**97**	**(70 - 130)**			**SW846 8321A**
	99	**(70 - 130)**	**2.0**	**(0-30)**	**SW846 8321A**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: CANNON-4 **Work Order #...:** GJ9X71AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: R4F300000-292 GJ9X71AD-LCSD
Prep Date.....: 06/30/04 **Analysis Date..:** 07/01/04
Prep Batch #...: 4182292 **Analysis Time..:** 00:41
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Perchlorate	**0.100**	**0.0968**	**ug/L**	**97**		**SW846 8321A**
	0.100	**0.0988**	**ug/L**	**99**	**2.0**	**SW846 8321A**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: CANNON-4 **Work Order #...:** GJH7K1E8-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F170353-001 GJH7K1E9-MSD
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04
Prep Date.....: 06/30/04 **Analysis Date..:** 07/01/04
Prep Batch #...: 4182292 **Analysis Time..:** 01:39
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Perchlorate	**80**	**(50 - 150)**			**SW846 8321A**
	73	**(50 - 150)**	**2.4**	**(0-40)**	**SW846 8321A**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: CANNON-4 **Work Order #...:** GJH7K1E8-MS **Matrix.....:** WATER
MS Lot-Sample #: D4F170353-001 GJH7K1E9-MSD
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04
Prep Date.....: 06/30/04 **Analysis Date..:** 07/01/04
Prep Batch #...: 4182292 **Analysis Time..:** 01:39
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Perchlorate	**0.21**	**0.100**	**0.292**	**ug/L**	**80**		**SW846 8321A**
	0.21	**0.100**	**0.285**	**ug/L**	**73**	**2.4**	**SW846 8321A**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

TOTAL Metals

Client Lot # ..: CANNON-4 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: D4F250000-601 **Prep Batch #...:** 4177601						
Antimony	ND	2.0	ug/L	SW846 6020	07/07-07/08/04	GJ38N1AA
		Dilution Factor: 1				
		Analysis Time..: 22:14				
Arsenic	ND	5.0	ug/L	SW846 6020	07/07-07/08/04	GJ38N1AC
		Dilution Factor: 1				
		Analysis Time..: 22:14				
Cadmium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJ38N1AD
		Dilution Factor: 1				
		Analysis Time..: 22:14				
Chromium	**0.33 B**	**2.0**	**ug/L**	**SW846 6020**	**07/07-07/08/04**	**GJ38N1AJ**
		Dilution Factor: 1				
		Analysis Time..: 22:14				
Lead	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJ38N1AE
		Dilution Factor: 1				
		Analysis Time..: 22:14				
Selenium	ND	5.0	ug/L	SW846 6020	07/07-07/08/04	GJ38N1AF
		Dilution Factor: 1				
		Analysis Time..: 22:14				
Silver	ND	5.0	ug/L	SW846 6020	07/07-07/08/04	GJ38N1AG
		Dilution Factor: 1				
		Analysis Time..: 22:14				
Thallium	ND	1.0	ug/L	SW846 6020	07/07-07/08/04	GJ38N1AH
		Dilution Factor: 1				
		Analysis Time..: 22:14				
MB Lot-Sample #: D4F250000-616 **Prep Batch #...:** 4177616						
Aluminum	**48 B**	**100**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJ39K1AA**
		Dilution Factor: 1				
		Analysis Time..: 00:23				
Barium	**1.9 B**	**10**	**ug/L**	**SW846 6010B**	**07/01-07/08/04**	**GJ39K1AC**
		Dilution Factor: 1				
		Analysis Time..: 20:55				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: CANNON-4 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Beryllium	**0.45 B**	**5.0**	**ug/L**	**SW846 6010B**	**07/01-07/11/04**	**GJ39K1AD**
		Dilution Factor: 1 Analysis Time..: 00:23				
Calcium	ND	200	ug/L	SW846 6010B	07/01-07/11/04	GJ39K1AP
		Dilution Factor: 1 Analysis Time..: 00:23				
Cobalt	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJ39K1AL
		Dilution Factor: 1 Analysis Time..: 20:55				
Copper	ND	20	ug/L	SW846 6010B	07/01-07/08/04	GJ39K1AE
		Dilution Factor: 1 Analysis Time..: 20:55				
Iron	ND	100	ug/L	SW846 6010B	07/01-07/11/04	GJ39K1AF
		Dilution Factor: 1 Analysis Time..: 00:23				
Magnesium	ND	200	ug/L	SW846 6010B	07/01-07/11/04	GJ39K1AQ
		Dilution Factor: 1 Analysis Time..: 00:23				
Manganese	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJ39K1AG
		Dilution Factor: 1 Analysis Time..: 20:55				
Molybdenum	ND	20	ug/L	SW846 6010B	07/01-07/08/04	GJ39K1AM
		Dilution Factor: 1 Analysis Time..: 20:55				
Nickel	ND	40	ug/L	SW846 6010B	07/01-07/08/04	GJ39K1AH
		Dilution Factor: 1 Analysis Time..: 20:55				
Potassium	ND	3000	ug/L	SW846 6010B	07/01-07/11/04	GJ39K1AR
		Dilution Factor: 1 Analysis Time..: 00:23				
Sodium	ND	5000	ug/L	SW846 6010B	07/01-07/11/04	GJ39K1AT
		Dilution Factor: 1 Analysis Time..: 00:23				
Tin	ND	100	ug/L	SW846 6010B	07/01-07/08/04	GJ39K1AN
		Dilution Factor: 1 Analysis Time..: 20:55				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: CANNON-4 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium	ND	10	ug/L	SW846 6010B	07/01-07/08/04	GJ39K1AJ
		Dilution Factor: 1				
		Analysis Time..: 20:55				
Zinc	ND	20	ug/L	SW846 6010B	07/01-07/08/04	GJ39K1AK
		Dilution Factor: 1				
		Analysis Time..: 20:55				
MB Lot-Sample #: D4F290000-230 **Prep Batch #...:** 4181230						
Mercury	ND	0.20	ug/L	SW846 7470A	07/02/04	GJ7H21AA
		Dilution Factor: 1				
		Analysis Time..: 20:11				
MB Lot-Sample #: D4F300000-444 **Prep Batch #...:** 4182444						
Mercury	**0.089 B**	**0.20**	**ug/L**	**SW846 7470A**	**06/30-07/13/04**	**GKAT81AA**
		Dilution Factor: 1				
		Analysis Time..: 09:28				
MB Lot-Sample #: D4F300000-583 **Prep Batch #...:** 4182583						
Antimony	ND	2.0	ug/L	SW846 6020	07/08/04	GKCA81AA
		Dilution Factor: 1				
		Analysis Time..: 21:03				
Arsenic	ND	5.0	ug/L	SW846 6020	07/08/04	GKCA81AC
		Dilution Factor: 1				
		Analysis Time..: 21:03				
Cadmium	ND	1.0	ug/L	SW846 6020	07/08/04	GKCA81AD
		Dilution Factor: 1				
		Analysis Time..: 21:03				
Chromium	**0.33 B**	**2.0**	**ug/L**	**SW846 6020**	**07/08/04**	**GKCA81AJ**
		Dilution Factor: 1				
		Analysis Time..: 21:03				
Lead	ND	1.0	ug/L	SW846 6020	07/08/04	GKCA81AE
		Dilution Factor: 1				
		Analysis Time..: 21:03				
Selenium	ND	5.0	ug/L	SW846 6020	07/08/04	GKCA81AF
		Dilution Factor: 1				
		Analysis Time..: 21:03				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: CANNON-4 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	5.0	ug/L	SW846 6020	07/08/04	GKCA81AG
		Dilution Factor: 1				
		Analysis Time..: 21:03				
Thallium	ND	1.0	ug/L	SW846 6020	07/08/04	GKCA81AH
		Dilution Factor: 1				
		Analysis Time..: 21:03				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: CANNON-4 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Antimony	101	(89 - 109)			SW846 6020	07/07-07/08/04	4177601
	100	(89 - 109)	0.89	(0-20)	SW846 6020	07/07-07/08/04	4177601
		Dilution Factor: 1			Analysis Time..: 22:18		
Arsenic	97	(87 - 109)			SW846 6020	07/07-07/08/04	4177601
	96	(87 - 109)	1.8	(0-20)	SW846 6020	07/07-07/08/04	4177601
		Dilution Factor: 1			Analysis Time..: 22:18		
Cadmium	98	(89 - 110)			SW846 6020	07/07-07/08/04	4177601
	96	(89 - 110)	1.8	(0-20)	SW846 6020	07/07-07/08/04	4177601
		Dilution Factor: 1			Analysis Time..: 22:18		
Chromium	103	(89 - 114)			SW846 6020	07/07-07/08/04	4177601
	103	(89 - 114)	0.62	(0-20)	SW846 6020	07/07-07/08/04	4177601
		Dilution Factor: 1			Analysis Time..: 22:18		
Lead	100	(89 - 114)			SW846 6020	07/07-07/08/04	4177601
	100	(89 - 114)	0.21	(0-20)	SW846 6020	07/07-07/08/04	4177601
		Dilution Factor: 1			Analysis Time..: 22:18		
Selenium	90	(82 - 112)			SW846 6020	07/07-07/08/04	4177601
	90	(82 - 112)	0.59	(0-20)	SW846 6020	07/07-07/08/04	4177601
		Dilution Factor: 1			Analysis Time..: 22:18		
Silver	100	(87 - 112)			SW846 6020	07/07-07/08/04	4177601
	98	(87 - 112)	1.1	(0-20)	SW846 6020	07/07-07/08/04	4177601
		Dilution Factor: 1			Analysis Time..: 22:18		
Thallium	101	(84 - 120)			SW846 6020	07/07-07/08/04	4177601
	99	(84 - 120)	2.6	(0-20)	SW846 6020	07/07-07/08/04	4177601
		Dilution Factor: 1			Analysis Time..: 22:18		
Aluminum	97	(86 - 108)			SW846 6010B	07/01-07/12/04	4177616
	97	(86 - 108)	0.11	(0-20)	SW846 6010B	07/01-07/12/04	4177616
		Dilution Factor: 1			Analysis Time..: 13:36		
Barium	102	(93 - 113)			SW846 6010B	07/01-07/08/04	4177616
	101	(93 - 113)	0.66	(0-20)	SW846 6010B	07/01-07/08/04	4177616
		Dilution Factor: 1			Analysis Time..: 21:00		

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: CANNON-4 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Beryllium	104	(88 - 112)			SW846 6010B	07/01-07/11/04	4177616
	104	(88 - 112)	0.03	(0-20)	SW846 6010B	07/01-07/11/04	4177616
		Dilution Factor: 1			Analysis Time..: 00:28		
Calcium	102	(89 - 110)			SW846 6010B	07/01-07/11/04	4177616
	102	(89 - 110)	0.05	(0-20)	SW846 6010B	07/01-07/11/04	4177616
		Dilution Factor: 1			Analysis Time..: 00:28		
Cobalt	99	(86 - 107)			SW846 6010B	07/01-07/08/04	4177616
	99	(86 - 107)	0.31	(0-20)	SW846 6010B	07/01-07/08/04	4177616
		Dilution Factor: 1			Analysis Time..: 21:00		
Copper	97	(86 - 110)			SW846 6010B	07/01-07/08/04	4177616
	97	(86 - 110)	0.61	(0-20)	SW846 6010B	07/01-07/08/04	4177616
		Dilution Factor: 1			Analysis Time..: 21:00		
Iron	96	(88 - 110)			SW846 6010B	07/01-07/12/04	4177616
	96	(88 - 110)	0.05	(0-20)	SW846 6010B	07/01-07/12/04	4177616
		Dilution Factor: 1			Analysis Time..: 13:36		
Magnesium	105	(91 - 111)			SW846 6010B	07/01-07/11/04	4177616
	105	(91 - 111)	0.16	(0-20)	SW846 6010B	07/01-07/11/04	4177616
		Dilution Factor: 1			Analysis Time..: 00:28		
Manganese	103	(90 - 110)			SW846 6010B	07/01-07/08/04	4177616
	102	(90 - 110)	0.39	(0-20)	SW846 6010B	07/01-07/08/04	4177616
		Dilution Factor: 1			Analysis Time..: 21:00		
Molybdenum	100	(83 - 109)			SW846 6010B	07/01-07/08/04	4177616
	100	(83 - 109)	0.16	(0-20)	SW846 6010B	07/01-07/08/04	4177616
		Dilution Factor: 1			Analysis Time..: 21:00		
Nickel	100	(90 - 110)			SW846 6010B	07/01-07/08/04	4177616
	100	(90 - 110)	0.03	(0-20)	SW846 6010B	07/01-07/08/04	4177616
		Dilution Factor: 1			Analysis Time..: 21:00		
Potassium	96	(86 - 111)			SW846 6010B	07/01-07/12/04	4177616
	96	(86 - 111)	0.32	(0-20)	SW846 6010B	07/01-07/12/04	4177616
		Dilution Factor: 1			Analysis Time..: 13:36		

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: CANNON-4 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Sodium	106	(91 - 112)			SW846 6010B	07/01-07/11/04	4177616
	106	(91 - 112)	0.25	(0-20)	SW846 6010B	07/01-07/11/04	4177616
		Dilution Factor: 1			Analysis Time..: 00:28		
Tin	94	(86 - 107)			SW846 6010B	07/01-07/08/04	4177616
	94	(86 - 107)	0.17	(0-20)	SW846 6010B	07/01-07/08/04	4177616
		Dilution Factor: 1			Analysis Time..: 21:00		
Vanadium	102	(88 - 112)			SW846 6010B	07/01-07/08/04	4177616
	101	(88 - 112)	0.42	(0-20)	SW846 6010B	07/01-07/08/04	4177616
		Dilution Factor: 1			Analysis Time..: 21:00		
Zinc	100	(85 - 110)			SW846 6010B	07/01-07/08/04	4177616
	101	(85 - 110)	0.48	(0-20)	SW846 6010B	07/01-07/08/04	4177616
		Dilution Factor: 1			Analysis Time..: 21:00		
Mercury	104	(84 - 114)			SW846 7470A	07/02/04	4181230
	102	(84 - 114)	1.7	(0-10)	SW846 7470A	07/02/04	4181230
		Dilution Factor: 1			Analysis Time..: 20:13		
Mercury	93	(84 - 114)			SW846 7470A	06/30-07/13/04	4182444
	91	(84 - 114)	2.3	(0-10)	SW846 7470A	06/30-07/13/04	4182444
		Dilution Factor: 1			Analysis Time..: 09:29		
Antimony	100	(89 - 109)			SW846 6020	07/08/04	4182583
	101	(89 - 109)	0.78	(0-20)	SW846 6020	07/08/04	4182583
		Dilution Factor: 1			Analysis Time..: 21:07		
Arsenic	97	(87 - 109)			SW846 6020	07/08/04	4182583
	98	(87 - 109)	0.38	(0-20)	SW846 6020	07/08/04	4182583
		Dilution Factor: 1			Analysis Time..: 21:07		
Cadmium	99	(89 - 110)			SW846 6020	07/08/04	4182583
	101	(89 - 110)	1.9	(0-20)	SW846 6020	07/08/04	4182583
		Dilution Factor: 1			Analysis Time..: 21:07		
Chromium	112	(89 - 114)			SW846 6020	07/08/04	4182583
	108	(89 - 114)	2.8	(0-20)	SW846 6020	07/08/04	4182583
		Dilution Factor: 1			Analysis Time..: 21:07		

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: CANNON-4 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Lead	104	(89 - 114)			SW846 6020	07/08/04	4182583
	107	(89 - 114)	2.2	(0-20)	SW846 6020	07/08/04	4182583
		Dilution Factor: 1			Analysis Time..: 21:07		
Selenium	91	(82 - 112)			SW846 6020	07/08/04	4182583
	91	(82 - 112)	0.25	(0-20)	SW846 6020	07/08/04	4182583
		Dilution Factor: 1			Analysis Time..: 21:07		
Silver	102	(87 - 112)			SW846 6020	07/08/04	4182583
	103	(87 - 112)	0.36	(0-20)	SW846 6020	07/08/04	4182583
		Dilution Factor: 1			Analysis Time..: 21:07		
Thallium	106	(84 - 120)			SW846 6020	07/08/04	4182583
	105	(84 - 120)	0.83	(0-20)	SW846 6020	07/08/04	4182583
		Dilution Factor: 1			Analysis Time..: 21:07		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: CANNON-4 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Antimony	40.0	40.2	ug/L	101		SW846 6020	07/07-07/08/04	4177601
	40.0	39.9	ug/L	100	0.89	SW846 6020	07/07-07/08/04	4177601
			Dilution Factor: 1			Analysis Time..: 22:18		
Arsenic	40.0	38.9	ug/L	97		SW846 6020	07/07-07/08/04	4177601
	40.0	38.2	ug/L	96	1.8	SW846 6020	07/07-07/08/04	4177601
			Dilution Factor: 1			Analysis Time..: 22:18		
Cadmium	40.0	39.2	ug/L	98		SW846 6020	07/07-07/08/04	4177601
	40.0	38.5	ug/L	96	1.8	SW846 6020	07/07-07/08/04	4177601
			Dilution Factor: 1			Analysis Time..: 22:18		
Chromium	40.0	41.1	ug/L	103		SW846 6020	07/07-07/08/04	4177601
	40.0	41.4	ug/L	103	0.62	SW846 6020	07/07-07/08/04	4177601
			Dilution Factor: 1			Analysis Time..: 22:18		
Lead	40.0	39.9	ug/L	100		SW846 6020	07/07-07/08/04	4177601
	40.0	39.8	ug/L	100	0.21	SW846 6020	07/07-07/08/04	4177601
			Dilution Factor: 1			Analysis Time..: 22:18		
Selenium	40.0	35.9	ug/L	90		SW846 6020	07/07-07/08/04	4177601
	40.0	36.1	ug/L	90	0.59	SW846 6020	07/07-07/08/04	4177601
			Dilution Factor: 1			Analysis Time..: 22:18		
Silver	40.0	39.8	ug/L	100		SW846 6020	07/07-07/08/04	4177601
	40.0	39.4	ug/L	98	1.1	SW846 6020	07/07-07/08/04	4177601
			Dilution Factor: 1			Analysis Time..: 22:18		
Thallium	40.0	40.5	ug/L	101		SW846 6020	07/07-07/08/04	4177601
	40.0	39.5	ug/L	99	2.6	SW846 6020	07/07-07/08/04	4177601
			Dilution Factor: 1			Analysis Time..: 22:18		
Aluminum	2000	1950	ug/L	97		SW846 6010B	07/01-07/12/04	4177616
	2000	1940	ug/L	97	0.11	SW846 6010B	07/01-07/12/04	4177616
			Dilution Factor: 1			Analysis Time..: 13:36		
Barium	2000	2040	ug/L	102		SW846 6010B	07/01-07/08/04	4177616
	2000	2020	ug/L	101	0.66	SW846 6010B	07/01-07/08/04	4177616
			Dilution Factor: 1			Analysis Time..: 21:00		

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: CANNON-4 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Beryllium	50.0	52.2	ug/L	104		SW846 6010B	07/01-07/11/04	4177616
	50.0	52.2	ug/L	104	0.03	SW846 6010B	07/01-07/11/04	4177616
			Dilution Factor: 1			Analysis Time..: 00:28		
Calcium	50000	50800	ug/L	102		SW846 6010B	07/01-07/11/04	4177616
	50000	50800	ug/L	102	0.05	SW846 6010B	07/01-07/11/04	4177616
			Dilution Factor: 1			Analysis Time..: 00:28		
Cobalt	500	497	ug/L	99		SW846 6010B	07/01-07/08/04	4177616
	500	495	ug/L	99	0.31	SW846 6010B	07/01-07/08/04	4177616
			Dilution Factor: 1			Analysis Time..: 21:00		
Copper	250	244	ug/L	97		SW846 6010B	07/01-07/08/04	4177616
	250	242	ug/L	97	0.61	SW846 6010B	07/01-07/08/04	4177616
			Dilution Factor: 1			Analysis Time..: 21:00		
Iron	1000	964	ug/L	96		SW846 6010B	07/01-07/12/04	4177616
	1000	963	ug/L	96	0.05	SW846 6010B	07/01-07/12/04	4177616
			Dilution Factor: 1			Analysis Time..: 13:36		
Magnesium	50000	52400	ug/L	105		SW846 6010B	07/01-07/11/04	4177616
	50000	52500	ug/L	105	0.16	SW846 6010B	07/01-07/11/04	4177616
			Dilution Factor: 1			Analysis Time..: 00:28		
Manganese	500	513	ug/L	103		SW846 6010B	07/01-07/08/04	4177616
	500	511	ug/L	102	0.39	SW846 6010B	07/01-07/08/04	4177616
			Dilution Factor: 1			Analysis Time..: 21:00		
Molybdenum	1000	1000	ug/L	100		SW846 6010B	07/01-07/08/04	4177616
	1000	1000	ug/L	100	0.16	SW846 6010B	07/01-07/08/04	4177616
			Dilution Factor: 1			Analysis Time..: 21:00		
Nickel	500	502	ug/L	100		SW846 6010B	07/01-07/08/04	4177616
	500	502	ug/L	100	0.03	SW846 6010B	07/01-07/08/04	4177616
			Dilution Factor: 1			Analysis Time..: 21:00		
Potassium	50000	47800	ug/L	96		SW846 6010B	07/01-07/12/04	4177616
	50000	47900	ug/L	96	0.32	SW846 6010B	07/01-07/12/04	4177616
			Dilution Factor: 1			Analysis Time..: 13:36		

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: CANNON-4 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sodium	50000	52900	ug/L	106		SW846 6010B	07/01-07/11/04	4177616
	50000	53000	ug/L	106	0.25	SW846 6010B	07/01-07/11/04	4177616
		Dilution Factor: 1				Analysis Time..: 00:28		
Tin	2000	1880	ug/L	94		SW846 6010B	07/01-07/08/04	4177616
	2000	1870	ug/L	94	0.17	SW846 6010B	07/01-07/08/04	4177616
		Dilution Factor: 1				Analysis Time..: 21:00		
Vanadium	500	508	ug/L	102		SW846 6010B	07/01-07/08/04	4177616
	500	506	ug/L	101	0.42	SW846 6010B	07/01-07/08/04	4177616
		Dilution Factor: 1				Analysis Time..: 21:00		
Zinc	500	501	ug/L	100		SW846 6010B	07/01-07/08/04	4177616
	500	504	ug/L	101	0.48	SW846 6010B	07/01-07/08/04	4177616
		Dilution Factor: 1				Analysis Time..: 21:00		
Mercury	5.00	5.18	ug/L	104		SW846 7470A	07/02/04	4181230
	5.00	5.09	ug/L	102	1.7	SW846 7470A	07/02/04	4181230
		Dilution Factor: 1				Analysis Time..: 20:13		
Mercury	5.00	4.66	ug/L	93		SW846 7470A	06/30-07/13/04	4182444
	5.00	4.55	ug/L	91	2.3	SW846 7470A	06/30-07/13/04	4182444
		Dilution Factor: 1				Analysis Time..: 09:29		
Antimony	40.0	40.1	ug/L	100		SW846 6020	07/08/04	4182583
	40.0	40.4	ug/L	101	0.78	SW846 6020	07/08/04	4182583
		Dilution Factor: 1				Analysis Time..: 21:07		
Arsenic	40.0	38.8	ug/L	97		SW846 6020	07/08/04	4182583
	40.0	39.0	ug/L	98	0.38	SW846 6020	07/08/04	4182583
		Dilution Factor: 1				Analysis Time..: 21:07		
Cadmium	40.0	39.7	ug/L	99		SW846 6020	07/08/04	4182583
	40.0	40.5	ug/L	101	1.9	SW846 6020	07/08/04	4182583
		Dilution Factor: 1				Analysis Time..: 21:07		
Chromium	40.0	44.6	ug/L	112		SW846 6020	07/08/04	4182583
	40.0	43.4	ug/L	108	2.8	SW846 6020	07/08/04	4182583
		Dilution Factor: 1				Analysis Time..: 21:07		

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: CANNON-4 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Lead	40.0	41.7	ug/L	104		SW846 6020	07/08/04	4182583
	40.0	42.6	ug/L	107	2.2	SW846 6020	07/08/04	4182583
			Dilution Factor: 1			Analysis Time..: 21:07		
Selenium	40.0	36.3	ug/L	91		SW846 6020	07/08/04	4182583
	40.0	36.2	ug/L	91	0.25	SW846 6020	07/08/04	4182583
			Dilution Factor: 1			Analysis Time..: 21:07		
Silver	40.0	40.9	ug/L	102		SW846 6020	07/08/04	4182583
	40.0	41.1	ug/L	103	0.36	SW846 6020	07/08/04	4182583
			Dilution Factor: 1			Analysis Time..: 21:07		
Thallium	40.0	42.4	ug/L	106		SW846 6020	07/08/04	4182583
	40.0	42.1	ug/L	105	0.83	SW846 6020	07/08/04	4182583
			Dilution Factor: 1			Analysis Time..: 21:07		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: CANNON-4 **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D4F170353-001 **Prep Batch #...:** 4177601							
Antimony	104	(89 - 109)			SW846 6020	07/07-07/08/04	GJH7K1CW
	105	(89 - 109)	0.48	(0-20)	SW846 6020	07/07-07/08/04	GJH7K1CX
		Dilution Factor: 1					
		Analysis Time..: 23:13					
Arsenic	97	(87 - 109)			SW846 6020	07/07-07/08/04	GJH7K1C0
	100	(87 - 109)	2.8	(0-20)	SW846 6020	07/07-07/08/04	GJH7K1C1
		Dilution Factor: 1					
		Analysis Time..: 23:13					
Cadmium	100	(89 - 110)			SW846 6020	07/07-07/08/04	GJH7K1C2
	101	(89 - 110)	1.1	(0-20)	SW846 6020	07/07-07/08/04	GJH7K1C3
		Dilution Factor: 1					
		Analysis Time..: 23:13					
Chromium	102	(89 - 114)			SW846 6020	07/07-07/08/04	GJH7K1EK
	105	(89 - 114)	2.8	(0-20)	SW846 6020	07/07-07/08/04	GJH7K1EL
		Dilution Factor: 1					
		Analysis Time..: 23:13					
Lead	102	(89 - 114)			SW846 6020	07/07-07/08/04	GJH7K1C4
	102	(89 - 114)	0.58	(0-20)	SW846 6020	07/07-07/08/04	GJH7K1C5
		Dilution Factor: 1					
		Analysis Time..: 23:13					
Selenium	90	(82 - 112)			SW846 6020	07/07-07/08/04	GJH7K1C6
	92	(82 - 112)	2.2	(0-20)	SW846 6020	07/07-07/08/04	GJH7K1C7
		Dilution Factor: 1					
		Analysis Time..: 23:13					
Silver	97	(87 - 112)			SW846 6020	07/07-07/08/04	GJH7K1C8
	98	(87 - 112)	1.1	(0-20)	SW846 6020	07/07-07/08/04	GJH7K1C9
		Dilution Factor: 1					
		Analysis Time..: 23:13					
Thallium	102	(84 - 120)			SW846 6020	07/07-07/08/04	GJH7K1DA
	101	(84 - 120)	0.57	(0-20)	SW846 6020	07/07-07/08/04	GJH7K1DC
		Dilution Factor: 1					
		Analysis Time..: 23:13					

MS Lot-Sample #: D4F170353-001 **Prep Batch #...:** 4177616
(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: CANNON-4 **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum	110	(83 - 119)			SW846 6010B	07/01-07/11/04	GJH7K1D6
	109	(83 - 119)	1.1	(0-25)	SW846 6010B	07/01-07/11/04	GJH7K1D7
		Dilution Factor: 1					
		Analysis Time..: 01:45					
Barium	102	(85 - 120)			SW846 6010B	07/01-07/08/04	GJH7K1D8
	100	(85 - 120)	2.0	(0-25)	SW846 6010B	07/01-07/08/04	GJH7K1D9
		Dilution Factor: 1					
		Analysis Time..: 22:29					
Beryllium	105	(79 - 121)			SW846 6010B	07/01-07/11/04	GJH7K1EA
	103	(79 - 121)	1.2	(0-25)	SW846 6010B	07/01-07/11/04	GJH7K1EC
		Dilution Factor: 1					
		Analysis Time..: 01:45					
Calcium	101	(48 - 153)			SW846 6010B	07/01-07/11/04	GJH7K1EW
	98	(48 - 153)	2.0	(0-25)	SW846 6010B	07/01-07/11/04	GJH7K1EX
		Dilution Factor: 1					
		Analysis Time..: 01:45					
Cobalt	99	(82 - 119)			SW846 6010B	07/01-07/08/04	GJH7K1EP
	97	(82 - 119)	1.7	(0-25)	SW846 6010B	07/01-07/08/04	GJH7K1EQ
		Dilution Factor: 1					
		Analysis Time..: 22:29					
Copper	98	(82 - 129)			SW846 6010B	07/01-07/08/04	GJH7K1ED
	96	(82 - 129)	2.1	(0-25)	SW846 6010B	07/01-07/08/04	GJH7K1EE
		Dilution Factor: 1					
		Analysis Time..: 22:29					
Iron	107	(52 - 155)			SW846 6010B	07/01-07/11/04	GJH7K1EF
	105	(52 - 155)	2.0	(0-25)	SW846 6010B	07/01-07/11/04	GJH7K1EG
		Dilution Factor: 1					
		Analysis Time..: 01:45					
Magnesium	107	(62 - 146)			SW846 6010B	07/01-07/11/04	GJH7K1E0
	104	(62 - 146)	1.7	(0-25)	SW846 6010B	07/01-07/11/04	GJH7K1E1
		Dilution Factor: 1					
		Analysis Time..: 01:45					
Manganese	103	(79 - 121)			SW846 6010B	07/01-07/08/04	GJH7K1EH
	101	(79 - 121)	1.9	(0-25)	SW846 6010B	07/01-07/08/04	GJH7K1EJ
		Dilution Factor: 1					
		Analysis Time..: 22:29					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: CANNON-4 **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum	103	(83 - 109)			SW846 6010B	07/01-07/08/04	GJH7K1ER
	100	(83 - 109)	2.3	(0-25)	SW846 6010B	07/01-07/08/04	GJH7K1ET
		Dilution Factor: 1					
		Analysis Time..: 22:29					
Nickel	100	(84 - 120)			SW846 6010B	07/01-07/08/04	GJH7K1CP
	98	(84 - 120)	1.6	(0-25)	SW846 6010B	07/01-07/08/04	GJH7K1CQ
		Dilution Factor: 1					
		Analysis Time..: 22:29					
Potassium	114	(76 - 132)			SW846 6010B	07/01-07/11/04	GJH7K1E2
	111	(76 - 132)	2.1	(0-25)	SW846 6010B	07/01-07/11/04	GJH7K1E3
		Dilution Factor: 1					
		Analysis Time..: 01:45					
Sodium	109	(70 - 203)			SW846 6010B	07/01-07/11/04	GJH7K1E4
	105	(70 - 203)	1.9	(0-40)	SW846 6010B	07/01-07/11/04	GJH7K1E5
		Dilution Factor: 1					
		Analysis Time..: 01:45					
Tin	96	(77 - 126)			SW846 6010B	07/01-07/08/04	GJH7K1EU
	94	(77 - 126)	2.6	(0-25)	SW846 6010B	07/01-07/08/04	GJH7K1EV
		Dilution Factor: 1					
		Analysis Time..: 22:29					
Vanadium	102	(85 - 120)			SW846 6010B	07/01-07/08/04	GJH7K1CR
	100	(85 - 120)	2.0	(0-25)	SW846 6010B	07/01-07/08/04	GJH7K1CT
		Dilution Factor: 1					
		Analysis Time..: 22:29					
Zinc	101	(60 - 137)			SW846 6010B	07/01-07/08/04	GJH7K1CU
	98	(60 - 137)	2.1	(0-25)	SW846 6010B	07/01-07/08/04	GJH7K1CV
		Dilution Factor: 1					
		Analysis Time..: 22:29					

MS Lot-Sample #: D4F170353-001 **Prep Batch #...:** 4182444

Mercury	86	(84 - 114)			SW846 7470A	06/30-07/13/04	GJH7K1EM
	87	(84 - 114)	0.98	(0-10)	SW846 7470A	06/30-07/13/04	GJH7K1EN
		Dilution Factor: 1					
		Analysis Time..: 09:51					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: CANNON-4 **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D4F170353-001 **Prep Batch #...:** 4177601									
Antimony									
	ND	40.0	41.6	ug/L	104		SW846 6020	07/07-07/08/04	GJH7K1CW
	ND	40.0	41.8	ug/L	105	0.48	SW846 6020	07/07-07/08/04	GJH7K1CX
			Dilution Factor: 1						
			Analysis Time..: 23:13						
Arsenic									
	4.6	40.0	43.5	ug/L	97		SW846 6020	07/07-07/08/04	GJH7K1C0
	4.6	40.0	44.8	ug/L	100	2.8	SW846 6020	07/07-07/08/04	GJH7K1C1
			Dilution Factor: 1						
			Analysis Time..: 23:13						
Cadmium									
	ND	40.0	40.1	ug/L	100		SW846 6020	07/07-07/08/04	GJH7K1C2
	ND	40.0	40.5	ug/L	101	1.1	SW846 6020	07/07-07/08/04	GJH7K1C3
			Dilution Factor: 1						
			Analysis Time..: 23:13						
Chromium									
	0.78	40.0	41.4	ug/L	102		SW846 6020	07/07-07/08/04	GJH7K1EK
	0.78	40.0	42.6	ug/L	105	2.8	SW846 6020	07/07-07/08/04	GJH7K1EL
			Dilution Factor: 1						
			Analysis Time..: 23:13						
Lead									
	0.14	40.0	40.8	ug/L	102		SW846 6020	07/07-07/08/04	GJH7K1C4
	0.14	40.0	41.0	ug/L	102	0.58	SW846 6020	07/07-07/08/04	GJH7K1C5
			Dilution Factor: 1						
			Analysis Time..: 23:13						
Selenium									
	0.52	40.0	36.5	ug/L	90		SW846 6020	07/07-07/08/04	GJH7K1C6
	0.52	40.0	37.3	ug/L	92	2.2	SW846 6020	07/07-07/08/04	GJH7K1C7
			Dilution Factor: 1						
			Analysis Time..: 23:13						
Silver									
	ND	40.0	38.8	ug/L	97		SW846 6020	07/07-07/08/04	GJH7K1C8
	ND	40.0	39.2	ug/L	98	1.1	SW846 6020	07/07-07/08/04	GJH7K1C9
			Dilution Factor: 1						
			Analysis Time..: 23:13						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: CANNON-4 **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium									
	ND	40.0	40.8	ug/L	102		SW846 6020	07/07-07/08/04	GJH7K1DA
	ND	40.0	40.6	ug/L	101	0.57	SW846 6020	07/07-07/08/04	GJH7K1DC
			Dilution Factor: 1						
			Analysis Time..: 23:13						

MS Lot-Sample #: D4F170353-001 **Prep Batch #...:** 4177616

Aluminum									
	57	2000	2260	ug/L	110		SW846 6010B	07/01-07/11/04	GJH7K1D6
	57	2000	2240	ug/L	109	1.1	SW846 6010B	07/01-07/11/04	GJH7K1D7
			Dilution Factor: 1						
			Analysis Time..: 01:45						
Barium									
	88	2000	2130	ug/L	102		SW846 6010B	07/01-07/08/04	GJH7K1D8
	8[illegible]	2000	2090	ug/L	100	2.0	SW846 6010B	07/01-07/08/04	GJH7K1D9
			Dilution Factor: 1						
			Analysis Time..: 22:29						
Beryllium									
	0.60	50.0	52.9	ug/L	105		SW846 6010B	07/01-07/11/04	GJH7K1EA
	0.60	50.0	52.2	ug/L	103	1.2	SW846 6010B	07/01-07/11/04	GJH7K1EC
			Dilution Factor: 1						
			Analysis Time..: 01:45						
Calcium									
	33000	50000	84000	ug/L	101		SW846 6010B	07/01-07/11/04	GJH7K1EW
	33000	50000	82300	ug/L	98	2.0	SW846 6010B	07/01-07/11/04	GJH7K1EX
			Dilution Factor: 1						
			Analysis Time..: 01:45						
Cobalt									
	ND	500	496	ug/L	99		SW846 6010B	07/01-07/08/04	GJH7K1EP
	ND	500	488	ug/L	97	1.7	SW846 6010B	07/01-07/08/04	GJH7K1EQ
			Dilution Factor: 1						
			Analysis Time..: 22:29						
Copper									
	1.0	250	247	ug/L	98		SW846 6010B	07/01-07/08/04	GJH7K1ED
	1.0	250	242	ug/L	96	2.1	SW846 6010B	07/01-07/08/04	GJH7K1EE
			Dilution Factor: 1						
			Analysis Time..: 22:29						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: CANNON-4 **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron									
	43	1000	1120	ug/L	107		SW846 6010B	07/01-07/11/04	GJH7K1EF
	43	1000	1090	ug/L	105	2.0	SW846 6010B	07/01-07/11/04	GJH7K1EG
			Dilution Factor: 1						
			Analysis Time..: 01:45						
Magnesium									
	33000	50000	86400	ug/L	107		SW846 6010B	07/01-07/11/04	GJH7K1E0
	33000	50000	84900	ug/L	104	1.7	SW846 6010B	07/01-07/11/04	GJH7K1E1
			Dilution Factor: 1						
			Analysis Time..: 01:45						
Manganese									
	1.4	500	515	ug/L	103		SW846 6010B	07/01-07/08/04	GJH7K1EH
	1.4	500	506	ug/L	101	1.9	SW846 6010B	07/01-07/08/04	GJH7K1EJ
			Dilution Factor: 1						
			Analysis Time..: 22:29						
Molybdenum									
	2.5	1000	1030	ug/L	103		SW846 6010B	07/01-07/08/04	GJH7K1ER
	2.5	1000	1000	ug/L	100	2.3	SW846 6010B	07/01-07/08/04	GJH7K1ET
			Dilution Factor: 1						
			Analysis Time..: 22:29						
Nickel									
	ND	500	501	ug/L	100		SW846 6010B	07/01-07/08/04	GJH7K1CP
	ND	500	493	ug/L	98	1.6	SW846 6010B	07/01-07/08/04	GJH7K1CQ
			Dilution Factor: 1						
			Analysis Time..: 22:29						
Potassium									
	6500	50000	63500	ug/L	114		SW846 6010B	07/01-07/11/04	GJH7K1E2
	6500	50000	62200	ug/L	111	2.1	SW846 6010B	07/01-07/11/04	GJH7K1E3
			Dilution Factor: 1						
			Analysis Time..: 01:45						
Sodium									
	50000	50000	105000	ug/L	109		SW846 6010B	07/01-07/11/04	GJH7K1E4
	50000	50000	103000	ug/L	105	1.9	SW846 6010B	07/01-07/11/04	GJH7K1E5
			Dilution Factor: 1						
			Analysis Time..: 01:45						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: CANNON-4 **Matrix.....:** WATER
Date Sampled...: 06/16/04 09:05 **Date Received..:** 06/17/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Tin									
	ND	2000	1930	ug/L	96		SW846 6010B	07/01-07/08/04	GJH7K1EU
	ND	2000	1880	ug/L	94	2.6	SW846 6010B	07/01-07/08/04	GJH7K1EV
			Dilution Factor: 1						
			Analysis Time..: 22:29						
Vanadium									
	37	500	549	ug/L	102		SW846 6010B	07/01-07/08/04	GJH7K1CR
	37	500	538	ug/L	100	2.0	SW846 6010B	07/01-07/08/04	GJH7K1CT
			Dilution Factor: 1						
			Analysis Time..: 22:29						
Zinc									
	ND	500	503	ug/L	101		SW846 6010B	07/01-07/08/04	GJH7K1CU
	ND	500	492	ug/L	98	2.1	SW846 6010B	07/01-07/08/04	GJH7K1CV
			Dilution Factor: 1						
			Analysis Time..: 22:29						

MS Lot-Sample #: D4F170353-001 **Prep Batch #...:** 4182444

Mercury									
	0.090	5.00	4.39	ug/L	86		SW846 7470A	06/30-07/13/04	GJH7K1EM
	0.090	5.00	4.44	ug/L	87	0.98	SW846 7470A	06/30-07/13/04	GJH7K1EN
			Dilution Factor: 1						
			Analysis Time..: 09:51						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: CANNON-4 **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:20 **Date Received..:** 06/15/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D4F150189-001 **Prep Batch #...:** 4181230							
Mercury	100	(84 - 114)			SW846 7470A	07/02/04	GJANT1CP
	101	(84 - 114)	1.5	(0-10)	SW846 7470A	07/02/04	GJANT1CQ
		Dilution Factor: 1					
		Analysis Time..: 20:18					
MS Lot-Sample #: D4F150189-001 **Prep Batch #...:** 4182583							
Antimony	100	(89 - 109)			SW846 6020	07/08/04	GJANT1CR
	100	(89 - 109)	0.54	(0-20)	SW846 6020	07/08/04	GJANT1CT
		Dilution Factor: 1					
		Analysis Time..: 21:25					
Arsenic	98	(87 - 109)			SW846 6020	07/08/04	GJANT1CU
	96	(87 - 109)	1.7	(0-20)	SW846 6020	07/08/04	GJANT1CV
		Dilution Factor: 1					
		Analysis Time..: 21:25					
Cadmium	99	(89 - 110)			SW846 6020	07/08/04	GJANT1CW
	97	(89 - 110)	2.6	(0-20)	SW846 6020	07/08/04	GJANT1CX
		Dilution Factor: 1					
		Analysis Time..: 21:25					
Chromium	109	(89 - 114)			SW846 6020	07/08/04	GJANT1C8
	106	(89 - 114)	2.3	(0-20)	SW846 6020	07/08/04	GJANT1C9
		Dilution Factor: 1					
		Analysis Time..: 21:25					
Lead	103	(89 - 114)			SW846 6020	07/08/04	GJANT1C0
	101	(89 - 114)	1.9	(0-20)	SW846 6020	07/08/04	GJANT1C1
		Dilution Factor: 1					
		Analysis Time..: 21:25					
Selenium	92	(82 - 112)			SW846 6020	07/08/04	GJANT1C2
	91	(82 - 112)	0.67	(0-20)	SW846 6020	07/08/04	GJANT1C3
		Dilution Factor: 1					
		Analysis Time..: 21:25					
Silver	96	(87 - 112)			SW846 6020	07/08/04	GJANT1C4
	93	(87 - 112)	3.1	(0-20)	SW846 6020	07/08/04	GJANT1C5
		Dilution Factor: 1					
		Analysis Time..: 21:25					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: CANNON-4 **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:20 **Date Received..:** 06/15/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	106	(84 - 120)			SW846 6020	07/08/04	GJANT1C6
	103	(84 - 120)	2.6	(0-20)	SW846 6020	07/08/04	GJANT1C7

Dilution Factor: 1
Analysis Time..: 21:25

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: CANNON-4 **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:20 **Date Received..:** 06/15/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D4F150189-001 **Prep Batch #...:** 4181230									
Mercury									
	ND	5.00	4.99	ug/L	100		SW846 7470A	07/02/04	GJANT1CP
	ND	5.00	5.07	ug/L	101	1.5	SW846 7470A	07/02/04	GJANT1CQ
			Dilution Factor: 1						
			Analysis Time..: 20:18						
MS Lot-Sample #: D4F150189-001 **Prep Batch #...:** 4182583									
Antimony									
	ND	40.0	40.1	ug/L	100		SW846 6020	07/08/04	GJANT1CR
	ND	40.0	39.9	ug/L	100	0.54	SW846 6020	07/08/04	GJANT1CT
			Dilution Factor: 1						
			Analysis Time..: 21:25						
Arsenic									
	4.5	40.0	43.6	ug/L	98		SW846 6020	07/08/04	GJANT1CU
	4.5	40.0	42.9	ug/L	96	1.7	SW846 6020	07/08/04	GJANT1CV
			Dilution Factor: 1						
			Analysis Time..: 21:25						
Cadmium									
	ND	40.0	39.8	ug/L	99		SW846 6020	07/08/04	GJANT1CW
	ND	40.0	38.8	ug/L	97	2.6	SW846 6020	07/08/04	GJANT1CX
			Dilution Factor: 1						
			Analysis Time..: 21:25						
Chromium									
	1.3	40.0	44.9	ug/L	109		SW846 6020	07/08/04	GJANT1C8
	1.3	40.0	43.9	ug/L	106	2.3	SW846 6020	07/08/04	GJANT1C9
			Dilution Factor: 1						
			Analysis Time..: 21:25						
Lead									
	0.11	40.0	41.4	ug/L	103		SW846 6020	07/08/04	GJANT1C0
	0.11	40.0	40.6	ug/L	101	1.9	SW846 6020	07/08/04	GJANT1C1
			Dilution Factor: 1						
			Analysis Time..: 21:25						
Selenium									
	10	40.0	46.9	ug/L	92		SW846 6020	07/08/04	GJANT1C2
	10	40.0	46.6	ug/L	91	0.67	SW846 6020	07/08/04	GJANT1C3
			Dilution Factor: 1						
			Analysis Time..: 21:25						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: CANNON-4 **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:20 **Date Received..:** 06/15/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver									
	ND	40.0	38.4	ug/L	96		SW846 6020	07/08/04	GJANT1C4
	ND	40.0	37.2	ug/L	93	3.1	SW846 6020	07/08/04	GJANT1C5
			Dilution Factor: 1						
			Analysis Time..: 21:25						
Thallium									
	ND	40.0	42.5	ug/L	106		SW846 6020	07/08/04	GJANT1C6
	ND	40.0	41.4	ug/L	103	2.6	SW846 6020	07/08/04	GJANT1C7
			Dilution Factor: 1						
			Analysis Time..: 21:25						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: CANNON-4 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total		Work Order #: GJXJW1AA		MB Lot-Sample #:	D4F240000-289	
	ND	0.010	mg/L	SW846 9012A	06/23-06/24/04	4176289
		Dilution Factor: 1				
		Analysis Time..: 12:00				
Nitrate		Work Order #: GJ05L1AA		MB Lot-Sample #:	D4F240000-647	
	ND	0.10	mg/L	MCAWW 353.2	06/15/04	4176647
		Dilution Factor: 1				
		Analysis Time..: 20:45				
Nitrate		Work Order #: GJ05P1AA		MB Lot-Sample #:	D4F240000-648	
	ND	0.10	mg/L	MCAWW 353.2	06/16/04	4176648
		Dilution Factor: 1				
		Analysis Time..: 18:00				
Nitrate		Work Order #: GJ7241AA		MB Lot-Sample #:	D4F290000-369	
	ND	0.10	mg/L	MCAWW 353.2	06/16/04	4181369
		Dilution Factor: 1				
		Analysis Time..: 18:00				
Nitrate		Work Order #: GJ06C1AA		MB Lot-Sample #:	D4F240000-650	
	ND	0.10	mg/L	MCAWW 353.2	06/17/04	4176650
		Dilution Factor: 1				
		Analysis Time..: 20:30				
Nitrite		Work Order #: GJGQ21AA		MB Lot-Sample #:	D4F150000-619	
	0.0034 B	**0.010**	**mg/L**	**MCAWW 354.1**	**06/15/04**	**4167619**
		Dilution Factor: 1				
		Analysis Time..: 20:45				
Nitrite		Work Order #: GJGNC1AA		MB Lot-Sample #:	D4F160000-543	
	0.0032 B	**0.010**	**mg/L**	**MCAWW 354.1**	**06/16/04**	**4168543**
		Dilution Factor: 1				
		Analysis Time..: 18:00				
Nitrite		Work Order #: GJRPX1AA		MB Lot-Sample #:	D4F170000-557	
	0.0028 B	**0.010**	**mg/L**	**MCAWW 354.1**	**06/17/04**	**4169557**
		Dilution Factor: 1				
		Analysis Time..: 20:30				
Sulfate		Work Order #: GJ2141AA		MB Lot-Sample #:	D4F250000-315	
	ND	5.0	mg/L	MCAWW 300.0A	06/24/04	4177315
		Dilution Factor: 1				
		Analysis Time..: 12:55				

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: CANNON-4 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate		Work Order #: GKDP41AA		MB Lot-Sample #:	D4F290000-299	
	0.16 B	**5.0**	**mg/L**	**MCAWW 300.0A**	**06/28/04**	**4181299**
		Dilution Factor: 1				
		Analysis Time..: 14:04				
Sulfate		Work Order #: GKD6T1AA		MB Lot-Sample #:	D4F290000-302	
	ND	5.0	mg/L	MCAWW 300.0A	06/28/04	4181302
		Dilution Factor: 1				
		Analysis Time..: 12:28				
Total Dissolved Solids		Work Order #: GJQJ81AA		MB Lot-Sample #:	D4F170000-410	
	ND	10	mg/L	MCAWW 160.1	06/17/04	4169410
		Dilution Factor: 1				
		Analysis Time..: 15:48				
Total Dissolved Solids		Work Order #: GJQVH1AA		MB Lot-Sample #:	D4F180000-385	
	ND	10	mg/L	MCAWW 160.1	06/18/04	4170385
		Dilution Factor: 1				
		Analysis Time..: 15:50				
Total Dissolved Solids		Work Order #: GJ5LH1AA		MB Lot-Sample #:	D4F210000-477	
	ND	10	mg/L	MCAWW 160.1	06/21/04	4173477
		Dilution Factor: 1				
		Analysis Time..: 17:45				
Total Organic Halogens		Work Order #: GLHHV1AA		MB Lot-Sample #:	D4G160000-368	
	ND	10	ug/L	SW846 9020B	07/13/04	4198368
		Dilution Factor: 1				
		Analysis Time..: 10:00				
Total Organic Halogens		Work Order #: GLHH81AA		MB Lot-Sample #:	D4G160000-390	
	ND	10	ug/L	SW846 9020B	07/14/04	4198390
		Dilution Factor: 1				
		Analysis Time..: 17:00				
Total Organic Halogens		Work Order #: GLH021AA		MB Lot-Sample #:	D4G210000-349	
	ND	10	ug/L	SW846 9020B	07/19/04	4203349
		Dilution Factor: 1				
		Analysis Time..: 12:00				

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: CANNON-4 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Halogens		Work Order #: GLH0X1AA		MB Lot-Sample #:	D4G210000-354	
	ND	10	ug/L	SW846 9020B	07/19/04	4203354
		Dilution Factor: 1				
		Analysis Time..: 12:00				
Total Organic Carbon		Work Order #: GKWKQ1AA		MB Lot-Sample #:	D4G120000-197	
	ND	1.0	mg/L	SW846 9060	07/09/04	4194197
		Dilution Factor: 1				
		Analysis Time..: 20:00				
Total Organic Carbon		Work Order #: GK2F31AA		MB Lot-Sample #:	D4G140000-189	
	ND	1.0	mg/L	SW846 9060	07/13/04	4196189
		Dilution Factor: 1				
		Analysis Time..: 13:00				
Total Sulfide		Work Order #: GJP1X1AA		MB Lot-Sample #:	D4F210000-462	
	ND	4.0	mg/L	SW846 9030B/9034	06/21/04	4173462
		Dilution Factor: 1				
		Analysis Time..: 11:00				
Total Sulfide		Work Order #: GJWKF1AA		MB Lot-Sample #:	D4F230000-338	
	ND	4.0	mg/L	SW846 9030B/9034	06/23/04	4175338
		Dilution Factor: 1				
		Analysis Time..: 07:40				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: CANNON-4 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total		WO#:GJXJW1AC-LCS/GJXJW1AD-LCSD LCS Lot-Sample#: D4F240000-289					
	102	(89 - 109)			SW846 9012A	06/23-06/24/04	4176289
	100	(89 - 109)	1.9	(0-20)	SW846 9012A	06/23-06/24/04	4176289
		Dilution Factor: 1			Analysis Time..: 12:00		
Nitrate		WO#:GJ05L1AC-LCS/GJ05L1AD-LCSD LCS Lot-Sample#: D4F240000-647					
	99	(86 - 110)			MCAWW 353.2	06/15/04	4176647
	98	(86 - 110)	0.81	(0-10)	MCAWW 353.2	06/15/04	4176647
		Dilution Factor: 1			Analysis Time..: 20:45		
Nitrate		WO#:GJ05P1AC-LCS/GJ05P1AD-LCSD LCS Lot-Sample#: D4F240000-648					
	103	(86 - 110)			MCAWW 353.2	06/16/04	4176648
	102	(86 - 110)	1.2	(0-10)	MCAWW 353.2	06/16/04	4176648
		Dilution Factor: 1			Analysis Time..: 18:00		
Nitrate		WO#:GJ06C1AC-LCS/GJ06C1AD-LCSD LCS Lot-Sample#: D4F240000-650					
	98	(86 - 110)			MCAWW 353.2	06/17/04	4176650
	99	(86 - 110)	1.0	(0-10)	MCAWW 353.2	06/17/04	4176650
		Dilution Factor: 1			Analysis Time..: 20:30		
Nitrate		WO#:GJ7241AC-LCS/GJ7241AD-LCSD LCS Lot-Sample#: D4F290000-369					
	103	(86 - 110)			MCAWW 353.2	06/16/04	4181369
	102	(86 - 110)	1.2	(0-10)	MCAWW 353.2	06/16/04	4181369
		Dilution Factor: 1			Analysis Time..: 18:00		
Nitrite		WO#:GJGNC1AC-LCS/GJGNC1AD-LCSD LCS Lot-Sample#: D4F160000-543					
	103	(86 - 110)			MCAWW 354.1	06/15-06/16/04	4168543
	102	(86 - 110)	1.2	(0-10)	MCAWW 354.1	06/15-06/16/04	4168543
		Dilution Factor: 1			Analysis Time..: 18:00		
Nitrite		WO#:GJGQ21AC-LCS/GJGQ21AD-LCSD LCS Lot-Sample#: D4F150000-619					
	99	(86 - 110)			MCAWW 354.1	06/15/04	4167619
	98	(86 - 110)	0.81	(0-10)	MCAWW 354.1	06/15/04	4167619
		Dilution Factor: 1			Analysis Time..: 20:45		
Nitrite		WO#:GJRPX1AC-LCS/GJRPX1AD-LCSD LCS Lot-Sample#: D4F170000-557					
	98	(86 - 110)			MCAWW 354.1	06/17/04	4169557
	99	(86 - 110)	1.0	(0-10)	MCAWW 354.1	06/17/04	4169557
		Dilution Factor: 1			Analysis Time..: 20:30		

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: CANNON-4 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate		WO#:GJ2141AC-LCS/GJ2141AD-LCSD				LCS Lot-Sample#: D4F250000-315	
	94	(90 - 110)			MCAWW 300.0A	06/24/04	4177315
	94	(90 - 110)	0.0	(0-10)	MCAWW 300.0A	06/24/04	4177315
		Dilution Factor: 1			Analysis Time..: 12:32		
Sulfate		WO#:GKDP41AC-LCS/GKDP41AD-LCSD				LCS Lot-Sample#: D4F290000-299	
	102	(90 - 110)			MCAWW 300.0A	06/28/04	4181299
	102	(90 - 110)	0.04	(0-10)	MCAWW 300.0A	06/28/04	4181299
		Dilution Factor: 1			Analysis Time..: 13:29		
Sulfate		WO#:GKD6T1AC-LCS/GKD6T1AD-LCSD				LCS Lot-Sample#: D4F290000-302	
	95	(90 - 110)			MCAWW 300.0A	06/28/04	4181302
	95	(90 - 110)	0.47	(0-10)	MCAWW 300.0A	06/28/04	4181302
		Dilution Factor: 1			Analysis Time..: 12:06		
Total Dissolved Solids		WO#:GJQJ81AC-LCS/GJQJ81AD-LCSD				LCS Lot-Sample#: D4F170000-410	
	99	(86 - 106)			MCAWW 160.1	06/17/04	4169410
	102	(86 - 106)	2.6	(0-20)	MCAWW 160.1	06/17/04	4169410
		Dilution Factor: 1			Analysis Time..: 15:48		
Total Dissolved Solids		WO#:GJQVH1AC-LCS/GJQVH1AD-LCSD				LCS Lot-Sample#: D4F180000-385	
	101	(86 - 106)			MCAWW 160.1	06/18/04	4170385
	100	(86 - 106)	0.39	(0-20)	MCAWW 160.1	06/18/04	4170385
		Dilution Factor: 1			Analysis Time..: 15:50		
Total Dissolved Solids		WO#:GJ5LH1AC-LCS/GJ5LH1AD-LCSD				LCS Lot-Sample#: D4F210000-477	
	96	(86 - 106)			MCAWW 160.1	06/21/04	4173477
	97	(86 - 106)	1.0	(0-20)	MCAWW 160.1	06/21/04	4173477
		Dilution Factor: 1			Analysis Time..: 17:45		
Total Organic Halogens		WO#:GLHHV1AC-LCS/GLHHV1AD-LCSD				LCS Lot-Sample#: D4G160000-368	
	84	(75 - 113)			SW846 9020B	07/13/04	4198368
	100	(75 - 113)	17	(0-30)	SW846 9020B	07/13-07/14/04	4198368
		Dilution Factor: 1			Analysis Time..: 10:00		

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: CANNON-4 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Halogens		WO#:GLHH81AC-LCS/GLHH81AD-LCSD				LCS Lot-Sample#: D4G160000-390	
	84	(75 - 113)			SW846 9020B	07/13/04	4198390
	100	(75 - 113)	17	(0-30)	SW846 9020B	07/14/04	4198390
		Dilution Factor: 1			Analysis Time..: 10:00		
Total Organic Halogens		WO#:GLH0X1AC-LCS/GLH0X1AD-LCSD				LCS Lot-Sample#: D4G210000-354	
	92	(75 - 113)			SW846 9020B	07/19/04	4203354
	93	(75 - 113)	1.4	(0-30)	SW846 9020B	07/19-07/20/04	4203354
		Dilution Factor: 1			Analysis Time..: 12:00		
Total Organic Halogens		WO#:GLH021AC-LCS/GLH021AD-LCSD				LCS Lot-Sample#: D4G210000-349	
	92	(75 - 113)			SW846 9020B	07/19/04	4203349
	93	(75 - 113)	1.4	(0-30)	SW846 9020B	07/19-07/20/04	4203349
		Dilution Factor: 1			Analysis Time..: 12:00		
Total Organic Carbon		WO#:GKWKQ1AC-LCS/GKWKQ1AD-LCSD				LCS Lot-Sample#: D4G120000-197	
	100	(90 - 110)			SW846 9060	07/09/04	4194197
	100	(90 - 110)	0.68	(0-10)	SW846 9060	07/09/04	4194197
		Dilution Factor: 1			Analysis Time..: 20:00		
Total Organic Carbon		WO#:GK2F31AC-LCS/GK2F31AD-LCSD				LCS Lot-Sample#: D4G140000-189	
	100	(90 - 110)			SW846 9060	07/13/04	4196189
	101	(90 - 110)	0.91	(0-10)	SW846 9060	07/13/04	4196189
		Dilution Factor: 1			Analysis Time..: 14:00		
Total Sulfide		WO#:GJP1X1AC-LCS/GJP1X1AD-LCSD				LCS Lot-Sample#: D4F210000-462	
	71	(70 - 130)			SW846 9030B/9034	06/21/04	4173462
	73	(70 - 130)	2.6	(0-20)	SW846 9030B/9034	06/21/04	4173462
		Dilution Factor: 1			Analysis Time..: 11:00		
Total Sulfide		WO#:GJWKF1AC-LCS/GJWKF1AD-LCSD				LCS Lot-Sample#: D4F230000-338	
	77	(70 - 130)			SW846 9030B/9034	06/23/04	4175338
	79	(70 - 130)	2.4	(0-20)	SW846 9030B/9034	06/23/04	4175338
		Dilution Factor: 1			Analysis Time..: 07:40		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: CANNON-4 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total		WO#:GJXJW1AC-LCS/GJXJW1AD-LCSD					LCS Lot-Sample#: D4F240000-289	
	0.100	0.102	mg/L	102		SW846 9012A	06/23-06/24/04	4176289
	0.100	0.100	mg/L	100	1.9	SW846 9012A	06/23-06/24/04	4176289
		Dilution Factor: 1				Analysis Time..: 12:00		
Nitrate		WO#:GJ05L1AC-LCS/GJ05L1AD-LCSD					LCS Lot-Sample#: D4F240000-647	
	0.0500	0.0493	mg/L	99		MCAWW 353.2	06/15/04	4176647
	0.0500	0.0489	mg/L	98	0.81	MCAWW 353.2	06/15/04	4176647
		Dilution Factor: 1				Analysis Time..: 20:45		
Nitrate		WO#:GJ05P1AC-LCS/GJ05P1AD-LCSD					LCS Lot-Sample#: D4F240000-648	
	0.0500	0.0515	mg/L	103		MCAWW 353.2	06/16/04	4176648
	0.0500	0.0509	mg/L	102	1.2	MCAWW 353.2	06/16/04	4176648
		Dilution Factor: 1				Analysis Time..: 18:00		
Nitrate		WO#:GJ06C1AC-LCS/GJ06C1AD-LCSD					LCS Lot-Sample#: D4F240000-650	
	0.0500	0.0488	mg/L	98		MCAWW 353.2	06/17/04	4176650
	0.0500	0.0493	mg/L	99	1.0	MCAWW 353.2	06/17/04	4176650
		Dilution Factor: 1				Analysis Time..: 20:30		
Nitrate		WO#:GJ7241AC-LCS/GJ7241AD-LCSD					LCS Lot-Sample#: D4F290000-369	
	0.0500	0.0515	mg/L	103		MCAWW 353.2	06/16/04	4181369
	0.0500	0.0509	mg/L	102	1.2	MCAWW 353.2	06/16/04	4181369
		Dilution Factor: 1				Analysis Time..: 18:00		
Nitrite		WO#:GJGNC1AC-LCS/GJGNC1AD-LCSD					LCS Lot-Sample#: D4F160000-543	
	0.0500	0.0515	mg/L	103		MCAWW 354.1	06/15-06/16/04	4168543
	0.0500	0.0509	mg/L	102	1.2	MCAWW 354.1	06/15-06/16/04	4168543
		Dilution Factor: 1				Analysis Time..: 18:00		
Nitrite		WO#:GJGQ21AC-LCS/GJGQ21AD-LCSD					LCS Lot-Sample#: D4F150000-619	
	0.0500	0.0493	mg/L	99		MCAWW 354.1	06/15/04	4167619
	0.0500	0.0489	mg/L	98	0.81	MCAWW 354.1	06/15/04	4167619
		Dilution Factor: 1				Analysis Time..: 20:45		
Nitrite		WO#:GJRPX1AC-LCS/GJRPX1AD-LCSD					LCS Lot-Sample#: D4F170000-557	
	0.0500	0.0488	mg/L	98		MCAWW 354.1	06/17/04	4169557
	0.0500	0.0493	mg/L	99	1.0	MCAWW 354.1	06/17/04	4169557
		Dilution Factor: 1				Analysis Time..: 20:30		

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LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: CANNON-4 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate			WO#:GJ2141AC-LCS/GJ2141AD-LCSD			LCS Lot-Sample#: D4F250000-315		
	20.0	18.9	mg/L	94		MCAWW 300.0A	06/24/04	4177315
	20.0	18.9	mg/L	94	0.0	MCAWW 300.0A	06/24/04	4177315
			Dilution Factor: 1			Analysis Time..: 12:32		
Sulfate			WO#:GKDP41AC-LCS/GKDP41AD-LCSD			LCS Lot-Sample#: D4F290000-299		
	20.0	20.5	mg/L	102		MCAWW 300.0A	06/28/04	4181299
	20.0	20.4	mg/L	102	0.04	MCAWW 300.0A	06/28/04	4181299
			Dilution Factor: 1			Analysis Time..: 13:29		
Sulfate			WO#:GKD6T1AC-LCS/GKD6T1AD-LCSD			LCS Lot-Sample#: D4F290000-302		
	20.0	19.0	mg/L	95		MCAWW 300.0A	06/28/04	4181302
	20.0	19.0	mg/L	95	0.47	MCAWW 300.0A	06/28/04	4181302
			Dilution Factor: 1			Analysis Time..: 12:06		
Total Dissolved Solids			WO#:GJQJ81AC-LCS/GJQJ81AD-LCSD			LCS Lot-Sample#: D4F170000-410		
	500	495	mg/L	99		MCAWW 160.1	06/17/04	4169410
	500	508	mg/L	102	2.6	MCAWW 160.1	06/17/04	4169410
			Dilution Factor: 1			Analysis Time..: 15:48		
Total Dissolved Solids			WO#:GJQVH1AC-LCS/GJQVH1AD-LCSD			LCS Lot-Sample#: D4F180000-385		
	500	504	mg/L	101		MCAWW 160.1	06/18/04	4170385
	500	502	mg/L	100	0.39	MCAWW 160.1	06/18/04	4170385
			Dilution Factor: 1			Analysis Time..: 15:50		
Total Dissolved Solids			WO#:GJ5LH1AC-LCS/GJ5LH1AD-LCSD			LCS Lot-Sample#: D4F210000-477		
	500	481	mg/L	96		MCAWW 160.1	06/21/04	4173477
	500	486	mg/L	97	1.0	MCAWW 160.1	06/21/04	4173477
			Dilution Factor: 1			Analysis Time..: 17:45		
Total Organic Halogens			WO#:GLHHV1AC-LCS/GLHHV1AD-LCSD			LCS Lot-Sample#: D4G160000-368		
	100	84.0	ug/L	84		SW846 9020B	07/13/04	4198368
	100	99.7	ug/L	100	17	SW846 9020B	07/13-07/14/04	4198368
			Dilution Factor: 1			Analysis Time..: 10:00		

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LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: CANNON-4 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Halogens			WO#:GLHH81AC-LCS/GLHH81AD-LCSD				LCS Lot-Sample#: D4G160000-390	
	100	84.0	ug/L	84		SW846 9020B	07/13/04	4198390
	100	99.7	ug/L	100	17	SW846 9020B	07/14/04	4198390
			Dilution Factor: 1			Analysis Time..: 10:00		
Total Organic Halogens			WO#:GLH0X1AC-LCS/GLH0X1AD-LCSD				LCS Lot-Sample#: D4G210000-354	
	100	91.7	ug/L	92		SW846 9020B	07/19/04	4203354
	100	93.0	ug/L	93	1.4	SW846 9020B	07/19-07/20/04	4203354
			Dilution Factor: 1			Analysis Time..: 12:00		
Total Organic Halogens			WO#:GLH021AC-LCS/GLH021AD-LCSD				LCS Lot-Sample#: D4G210000-349	
	100	91.7	ug/L	92		SW846 9020B	07/19/04	4203349
	100	93.0	ug/L	93	1.4	SW846 9020B	07/19-07/20/04	4203349
			Dilution Factor: 1			Analysis Time..: 12:00		
Total Organic Carbon			WO#:GKWKQ1AC-LCS/GKWKQ1AD-LCSD				LCS Lot-Sample#: D4G120000-197	
	25.0	24.9	mg/L	100		SW846 9060	07/09/04	4194197
	25.0	25.0	mg/L	100	0.68	SW846 9060	07/09/04	4194197
			Dilution Factor: 1			Analysis Time..: 20:00		
Total Organic Carbon			WO#:GK2F31AC-LCS/GK2F31AD-LCSD				LCS Lot-Sample#: D4G140000-189	
	25.0	25.0	mg/L	100		SW846 9060	07/13/04	4196189
	25.0	25.2	mg/L	101	0.91	SW846 9060	07/13/04	4196189
			Dilution Factor: 1			Analysis Time..: 14:00		
Total Sulfide			WO#:GJP1X1AC-LCS/GJP1X1AD-LCSD				LCS Lot-Sample#: D4F210000-462	
	17.0	12.0	mg/L	71		SW846 9030B/9034	06/21/04	4173462
	17.0	12.3	mg/L	73	2.6	SW846 9030B/9034	06/21/04	4173462
			Dilution Factor: 1			Analysis Time..: 11:00		
Total Sulfide			WO#:GJWKF1AC-LCS/GJWKF1AD-LCSD				LCS Lot-Sample#: D4F230000-338	
	17.5	13.4	mg/L	77		SW846 9030B/9034	06/23/04	4175338
	17.5	13.8	mg/L	79	2.4	SW846 9030B/9034	06/23/04	4175338
			Dilution Factor: 1			Analysis Time..: 07:40		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: CANNON-4 **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:20 **Date Received..:** 06/15/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total			WO#: GJH7K1DR-MS/GJH7K1DT-MSD			MS Lot-Sample #: D4F170353-001	
	99	(78 - 120)			SW846 9012A	06/23-06/24/04	4176289
	100	(78 - 120)	1.4	(0-20)	SW846 9012A	06/23-06/24/04	4176289
			Dilution Factor: 1				
			Analysis Time..: 12:00				
Nitrite			WO#: GJCMP1AC-MS/GJCMP1AD-MSD			MS Lot-Sample #: D4F150300-005	
	89	(69 - 121)			MCAWW 354.1	06/15/04	4167620
	91	(69 - 121)	1.0	(0-10)	MCAWW 354.1	06/15/04	4167620
			Dilution Factor: 1				
			Analysis Time..: 20:45				
Nitrite			WO#: GJEQC1CP-MS/GJEQC1CQ-MSD			MS Lot-Sample #: D4F160246-001	
	77	(69 - 121)			MCAWW 354.1	06/15-06/16/04	4168543
	77	(69 - 121)	0.22	(0-10)	MCAWW 354.1	06/15-06/16/04	4168543
			Dilution Factor: 1				
			Analysis Time..: 18:00				
Nitrite			WO#: GJFQR1CX-MS/GJFQR1C0-MSD			MS Lot-Sample #: D4F160373-001	
	66 N	(69 - 121)			MCAWW 354.1	06/17/04	4169557
	72	(69 - 121)	8.0	(0-10)	MCAWW 354.1	06/17/04	4169557
			Dilution Factor: 1				
			Analysis Time..: 20:30				
Nitrite			WO#: GJH7K1D2-MS/GJH7K1D3-MSD			MS Lot-Sample #: D4F170353-001	
	77	(69 - 121)			MCAWW 354.1	06/17/04	4169557
	80	(69 - 121)	3.2	(0-10)	MCAWW 354.1	06/17/04	4169557
			Dilution Factor: 1				
			Analysis Time..: 20:30				
Sulfate			WO#: GJH7K1D0-MS/GJH7K1D1-MSD			MS Lot-Sample #: D4F170353-001	
	122 N,I	(80 - 120)			MCAWW 300.0A	06/28/04	4181302
	123 N,I	(80 - 120)	0.61	(0-10)	MCAWW 300.0A	06/28/04	4181302
			Dilution Factor: 1				
			Analysis Time..: 12:51				
Sulfate			WO#: GJMP51A9-MS/GJMP51CA-MSD			MS Lot-Sample #: D4F190125-002	
	108	(80 - 120)			MCAWW 300.0A	06/24/04	4177315
	111	(80 - 120)	2.3	(0-10)	MCAWW 300.0A	06/24/04	4177315
			Dilution Factor: 1				
			Analysis Time..: 15:33				

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MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: CANNON-4 **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:20 **Date Received..:** 06/15/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate			WO#: GJMQ61CT-MS/GJMQ61CU-MSD			MS Lot-Sample #: D4F190134-001	
	102	(80 - 120)			MCAWW 300.0A	06/24/04	4177315
	103	(80 - 120)	0.72	(0-10)	MCAWW 300.0A	06/24/04	4177315
		Dilution Factor: 1					
		Analysis Time..: 17:14					
Sulfate			WO#: GJ2F91C5-MS/GJ2F91C6-MSD			MS Lot-Sample #: D4F250217-001	
	116	(80 - 120)			MCAWW 300.0A	06/28/04	4181299
	117	(80 - 120)	0.89	(0-10)	MCAWW 300.0A	06/28/04	4181299
		Dilution Factor: 1					
		Analysis Time..: 17:57					
Total Organic Halogens			WO#: GJANT1DA-MS/GJANT1DC-MSD			MS Lot-Sample #: D4F150189-001	
	96	(75 - 113)			SW846 9020B	07/19-07/20/04	4203354
	96	(75 - 113)	0.52	(0-30)	SW846 9020B	07/19-07/20/04	4203354
		Dilution Factor: 1					
		Analysis Time..: 12:00					
Total Organic Halogens			WO#: GJH7K1DU-MS/GJH7K1DV-MSD			MS Lot-Sample #: D4F170353-001	
	75	(75 - 113)			SW846 9020B	07/13-07/14/04	4198368
	79	(75 - 113)	3.7	(0-30)	SW846 9020B	07/13-07/14/04	4198368
		Dilution Factor: 1					
		Analysis Time..: 16:00					
Total Organic Carbon			WO#: GJH7K1E6-MS/GJH7K1E7-MSD			MS Lot-Sample #: D4F170353-001	
	93	(85 - 117)			SW846 9060	07/13/04	4196189
	93	(85 - 117)	0.68	(0-10)	SW846 9060	07/13/04	4196189
		Dilution Factor: 1					
		Analysis Time..: 17:00					
Total Organic Carbon			WO#: GJXLV1AX-MS/GJXLV1A0-MSD			MS Lot-Sample #: A4F240245-001	
	97	(85 - 117)			SW846 9060	07/09/04	4194197
	97	(85 - 117)	0.08	(0-10)	SW846 9060	07/09/04	4194197
		Dilution Factor: 1					
		Analysis Time..: 19:00					
Total Sulfide			WO#: GJH7K1DW-MS/GJH7K1DX-MSD			MS Lot-Sample #: D4F170353-001	
	82	(70 - 130)			SW846 9030B/9034	06/23/04	4175338
	70	(70 - 130)	15	(0-20)	SW846 9030B/9034	06/23/04	4175338
		Dilution Factor: 1					
		Analysis Time..: 07:40					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

I Estimated result. Result concentration exceeds the calibration range.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: CANNON-4 **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:20 **Date Received..:** 06/15/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total			WO#: GJH7K1DR-MS/GJH7K1DT-MSD MS Lot-Sample #: D4F170353-001						
	ND	0.100	0.0989	mg/L	99		SW846 9012A	06/23-06/24/04	4176289
	ND	0.100	0.100	mg/L	100	1.4	SW846 9012A	06/23-06/24/04	4176289
			Dilution Factor: 1						
			Analysis Time..: 12:00						
Nitrite			WO#: GJCMP1AC-MS/GJCMP1AD-MSD MS Lot-Sample #: D4F150300-005						
	0.070	0.0500	0.114	mg/L	89		MCAWW 354.1	06/15/04	4167620
	0.070	0.0500	0.116	mg/L	91	1.0	MCAWW 354.1	06/15/04	4167620
			Dilution Factor: 1						
			Analysis Time..: 20:45						
Nitrite			WO#: GJEQC1CP-MS/GJEQC1CQ-MSD MS Lot-Sample #: D4F160246-001						
	0.0061	0.0500	0.0446	mg/L	77		MCAWW 354.1	06/15-06/16/04	4168543
	0.0061	0.0500	0.0447	mg/L	77	0.22	MCAWW 354.1	06/15-06/16/04	4168543
			Dilution Factor: 1						
			Analysis Time..: 18:00						
Nitrite			WO#: GJFQR1CX-MS/GJFQR1C0-MSD MS Lot-Sample #: D4F160373-001						
	0.0043	0.0500	0.0373	mg/L	66		MCAWW 354.1	06/17/04	4169557
			Qualifiers: N						
	0.0043	0.0500	0.0404	mg/L	72	8.0	MCAWW 354.1	06/17/04	4169557
			Dilution Factor: 1						
			Analysis Time..: 20:30						
Nitrite			WO#: GJH7K1D2-MS/GJH7K1D3-MSD MS Lot-Sample #: D4F170353-001						
	0.0076	0.0500	0.0461	mg/L	77		MCAWW 354.1	06/17/04	4169557
	0.0076	0.0500	0.0476	mg/L	80	3.2	MCAWW 354.1	06/17/04	4169557
			Dilution Factor: 1						
			Analysis Time..: 20:30						
Sulfate			WO#: GJH7K1D0-MS/GJH7K1D1-MSD MS Lot-Sample #: D4F170353-001						
	30	25.0	60.5	mg/L	122		MCAWW 300.0A	06/28/04	4181302
			Qualifiers: N,I						
	30	25.0	60.9	mg/L	123	0.61	MCAWW 300.0A	06/28/04	4181302
			Qualifiers: N,I						
			Dilution Factor: 1						
			Analysis Time..: 12:51						
Sulfate			WO#: GJMP51A9-MS/GJMP51CA-MSD MS Lot-Sample #: D4F190125-002						
	7.0	25.0	34.0	mg/L	108		MCAWW 300.0A	06/24/04	4177315
	7.0	25.0	34.8	mg/L	111	2.3	MCAWW 300.0A	06/24/04	4177315
			Dilution Factor: 1						
			Analysis Time..: 15:33						

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MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: CANNON-4 **Matrix.....:** WATER
Date Sampled...: 06/14/04 14:20 **Date Received..:** 06/15/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate			WO#: GJMQ61CT-MS/GJMQ61CU-MSD				MS Lot-Sample #: D4F190134-001		
	ND	125	128	mg/L	102		MCAWW 300.0A	06/24/04	4177315
	ND	125	129	mg/L	103	0.72	MCAWW 300.0A	06/24/04	4177315
			Dilution Factor: 1						
			Analysis Time..: 17:14						
Sulfate			WO#: GJ2F91C5-MS/GJ2F91C6-MSD				MS Lot-Sample #: D4F250217-001		
	18	25.0	46.9	mg/L	116		MCAWW 300.0A	06/28/04	4181299
	18	25.0	47.3	mg/L	117	0.89	MCAWW 300.0A	06/28/04	4181299
			Dilution Factor: 1						
			Analysis Time..: 17:57						
Total Organic Halogens			WO#: GJANT1DA-MS/GJANT1DC-MSD				MS Lot-Sample #: D4F150189-001		
	ND	200	192	ug/L	96		SW846 9020B	07/19-07/20/04	4203354
	ND	200	191	ug/L	96	0.52	SW846 9020B	07/19-07/20/04	4203354
			Dilution Factor: 1						
			Analysis Time..: 12:00						
Total Organic Halogens			WO#: GJH7K1DU-MS/GJH7K1DV-MSD				MS Lot-Sample #: D4F170353-001		
	17	100	91.7	ug/L	75		SW846 9020B	07/13-07/14/04	4198368
	17	100	95.2	ug/L	79	3.7	SW846 9020B	07/13-07/14/04	4198368
			Dilution Factor: 1						
			Analysis Time..: 16:00						
Total Organic Carbon			WO#: GJH7K1E6-MS/GJH7K1E7-MSD				MS Lot-Sample #: D4F170353-001		
	ND	25.0	23.4	mg/L	93		SW846 9060	07/13/04	4196189
	ND	25.0	23.5	mg/L	93	0.68	SW846 9060	07/13/04	4196189
			Dilution Factor: 1						
			Analysis Time..: 17:00						
Total Organic Carbon			WO#: GJXLV1AX-MS/GJXLV1A0-MSD				MS Lot-Sample #: A4F240245-001		
	0.42	25.0	24.7	mg/L	97		SW846 9060	07/09/04	4194197
	0.42	25.0	24.7	mg/L	97	0.08	SW846 9060	07/09/04	4194197
			Dilution Factor: 1						
			Analysis Time..: 19:00						
Total Sulfide			WO#: GJH7K1DW-MS/GJH7K1DX-MSD				MS Lot-Sample #: D4F170353-001		
	ND	17.5	14.6	mg/L	82		SW846 9030B/9	06/23/04	4175338
	ND	17.5	12.5	mg/L	70	15	SW846 9030B/9	06/23/04	4175338
			Dilution Factor: 1						
			Analysis Time..: 07:40						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

I Estimated result. Result concentration exceeds the calibration range.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D4F150189 **Work Order #...:** GJECA-SMP GJECA-DUP **Matrix.....:** WATER

Date Sampled...: 06/15/04 13:33 **Date Received..:** 06/16/04

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids						SD Lot-Sample #:	D4F160189-001	
	150	160	mg/L	0.65	(0-20)	MCAWW 160.1	06/17/04	4169410

Dilution Factor: 1 Analysis Time..: 15:48

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D4F150189 **Work Order #...:** GJGV5-SMP GJGV5-DUP **Matrix.....:** WATER

Date Sampled...: 06/16/04 14:28 **Date Received..:** 06/17/04

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids						SD Lot-Sample #:	D4F170200-002	
	160	160	mg/L	1.2	(0-20)	MCAWW 160.1	06/18/04	4170385

Dilution Factor: 1 Analysis Time..: 15:50

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D4F150189 **Work Order #...:** GJH63-SMP GJH63-DUP **Matrix.....:** WATER

Date Sampled...: 06/16/04 14:10 **Date Received..:** 06/17/04

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids						SD Lot-Sample #: D4F170343-002		
	620	640	mg/L	4.4	(0-20)	MCAWW 160.1	06/21/04	4173477

Dilution Factor: 1 Analysis Time..: 17:45

STL Denver

Sample Receiving Checklist

Lot #: D4F170353 Date/Time Received: 6/17/04 0915

Company Name & Sampling Site: Cannon AFB

*Cooler #(s):	1	2	3	4	5	6	7	8	9
Temperatures (°C):	4.7	3.8	3.3	3.7	2.9	2.1	4.1	3.2	4.8

PM to Complete This Section: *Yes* *No*
Residual chlorine check required: ☐ ☐
Time Zone:
• EDT/EST • CDT/CST • MDT/MST • PDT/PST • OTHER

Yes *No*
Quarantined : ☐ ☐

25228

Unpacking & Labeling Check Points:

N/A	Yes	No		Initials
☐	☑	☐	1. Cooler seals intact. (N/A if hand delivered)	PC
	☑	☐	2. Chain of custody present.	
	☐	☑	3. Bottles broken and/or are leaking, comment if yes.	
	☐	☑	4. Multiphase samples present? If yes, comment below.	
			PHOTOGRAPH BROKEN BOTTLES/MULTIPHASE SAMPLES	
	☑	☐	5. Proper container & preservatives used (ref. Attachment D of SOP# DEN-QA-0003)	
☐	☑	☐	6. pH of all samples checked and meet requirements, note exceptions.	
	☑	☐	7. Chain of custody includes "received by" and "relinquished" by signatures, dates, and times.	
	☐	☑	8. Receipt date(s) > 48 hours past the collection date(s)? If yes, notify PA/PM.	
	☑	☐	9. Chain of custody agrees with bottle count, comment if no.	
	☑	☐	10. Chain of custody agrees with labels, comment if no.	
☐	☑	☐	11. VOA samples filled completely, comment if no.	
☐	☑	☐	12. VOA vials preserved, check label. Preservative ☑HCl ☑4±2°C ☐Sodium Thiosulfate	
	☐	☑	13. Did samples require preservation with sodium thiosulfate?	
☑	☐	☐	14. If yes to #13, did the samples contain residual chlorine?	
☑	☐	☐	15. Sediment present in dissolved/filtered bottles.	
	☑	☐	16. Are analyses with short holding times requested?	
	☐	☑	17. Was a quick Turn Around (TAT) requested?	
☐	☑	☐	18. Is extra sample volume provided for MS, MSD or matrix duplicates?	
			DOUBLECHECK METALS,SAMPLE LABELS & SUBCONTRACT	
☐	☑	☐	19. Subcontract COC signed and sent with samples to bottle prep?	✓
	☑	☐	20. Were sample labels double-checked by a second person?	JB
☑	☐	☐	21. Were sample bottles and COC double checked for dissolved/filtered metals by a second person?	PC
☐	☑	☐	22. If applicable, were AFCEE Metals placed in the walkin refrigerator?	
☐	☑	☐	23. Were special instructions read and followed?	

Document any problems or discrepancies and the actions taken to resolve them on a Condition Upon Receipt Anomaly Report (CUR).

STL Denver

Sample Receiving Checklist

Lot #: D4F160246 Date/Time Received: 6/16/04 0915

Company Name & Sampling Site:

*Cooler #(s):	1	2	3	4	5	6	7	8
Temperatures (°C):	5.2	2.3	4.2	3.8	3.5	4.6	3.0	3.3

PM to Complete This Section: *Yes* *No* *Yes* *No*

Residual chlorine check required: ☐ ☐ Quarantined : ☐ ☐ 25224

Time Zone:

• EDT/EST • CDT/CST • MDT/MST • PDT/PST • OTHER

Unpacking & Labeling Check Points:

N/A	Yes	No		Initials
☐	☒	☐	1. Cooler seals intact. (N/A if hand delivered)	PC
	☒	☐	2. Chain of custody present.	
	☐	☒	3. Bottles broken and/or are leaking, comment if yes.	
	☐	☒	4. Multiphase samples present? If yes, comment below.	
			PHOTOGRAPH BROKEN BOTTLES/MULTIPHASE SAMPLES	
	☒	☐	5. Proper container & preservatives used (ref. Attachment D of SOP# DEN-QA-0003)	
☐	☒	☐	6. pH of all samples checked and meet requirements, note exceptions.	
	☒	☐	7. Chain of custody includes "received by" and "relinquished" by signatures, dates, and times.	
	☐	☒	8. Receipt date(s) > 48 hours past the collection date(s)? If yes, notify PA/PM.	
	☒	☒	9. Chain of custody agrees with bottle count, comment if no. No, see CUR	
	☒	☐	10. Chain of custody agrees with labels, comment if no.	
☐	☒	☐	11. VOA samples filled completely, comment if no.	
☐	☒	☐	12. VOA vials preserved, check label. Preservative ☒HCl ☒4±2°C ☐Sodium Thiosulfate	
	☐	☒	13. Did samples require preservation with sodium thiosulfate?	
☒	☐	☐	14. If yes to #13, did the samples contain residual chlorine?	
☒	☐	☐	15. Sediment present in dissolved/filtered bottles.	
	☒	☐	16. Are analyses with short holding times requested?	
	☐	☒	17. Was a quick Turn Around (TAT) requested?	
☒	☐	☐	18. Is extra sample volume provided for MS, MSD or matrix duplicates?	
			DOUBLECHECK METALS,SAMPLE LABELS & SUBCONTRACT	
☒	☒	☐	19. Subcontract COC signed and sent with samples to bottle prep? Yes	
	☒	☐	20. Were sample labels double-checked by a second person?	
☒	☐	☐	21. Were sample bottles and COC double checked for dissolved/filtered metals by a second person?	
☒	☐	☐	22. If applicable, were AFCEE Metals placed in the walkin refrigerator?	
☐	☒	☐	23. Were special instructions read and followed?	

Document any problems or discrepancies and the actions taken to resolve them on a Condition Upon Receipt Anomaly Report (CUR).

APPENDIX II

USGS Laboratory Quality Assurance/Quality Control Results

CONTRACT LABORATORY DATA-REVIEW WORKSHEET

1.0 GENERAL INFORMATION Laboratory Lot Number: SDG: CANNON-4

Data reviewer: Richard Daddow Review date: 8/2/04

District, Project, & Account #: New Mexico Cannon AFB GW Sampling 8636-9JU01 SDG: CANNON-4 includes lots 04F150189, 04F160246, and 04F170353.

2.0 DATA DELIVERABLES

Date of Lab analytical report: 7/29/04 Number of copies: bound 1 unbound (2)

No. of volumes of raw-data report: — No. of CD copies of raw-data report: 1

Raw-data report reviewed? Yes ___ No X Electronic data files on CD? Yes ___ No X

EDD file format: QWDATA ___ STL QUANT002 ___ ERPIMS ___ Other ___

Comments—Data Reports EDD file in QWDATA will be sent to USGS Client via email.

Date rec'd data deliverables: 8/2/04 Date sent deliverables to USGS office ___

3.0 INVOICE STATUS FOR LOT: Corrections Needed Invoice copy attached X

4.0 SAMPLE INFORMATION *(Page #'s listed in this worksheet refer to lab analytical report)*

Sample collection date(s): 6/14-16/04 Sample matrix: water

No. of sample types in lot: Environmental 17 Trip blank ~~1~~ 2 Equip. blank 2

MS/MSD 2 Other: ___

4.1 Were accelerated turn-around times (TATs) requested for analyses? Yes ___ No X

If yes, list TAT period and if completed: ___

4.2 Were analyses on chain-of-custody (COC) form performed by lab? YES (X) NO ___

If **no**, list missing or cancelled analyses and reason for non-performance: ___

4.3 Were the samples properly preserved, labeled, no lab log-in problems, and(or) at appropriate temperature (<6 deg. C) upon receipt by the laboratory: Yes ___ No X

If **no**, list sample/lab IDs, and associated problems with when delivered at laboratory:

Sample CAFB-S (04F150189-003) was crossed out on COC but sample container for volatile analysis was received at lab and logged in (p. 2) Sample CAFB-B-EB (04F170353-008) was rec'd but not listed on COC and logged in for volatile analysis. (p. 2)

Laboratory Lot No: SDG: CANNON-4

4.4 Were preparation (extraction) and(or) analysis holding times met? Yes ____ No X

If **no**, list analytical methods and sample/lab IDs for samples that exceeded holding-time limits:

Method 9020B (TOX) analyses for 10 samples were performed outside the 28-day hold time due to instrument failure and lab oversight (p.6) No charges for these 10 TOX analyses.

4.5 Did surrogate recoveries meet QC acceptance criteria? Yes X No ____ NA ____

If **no**, list methods, surrogates, associated sample/lab IDs, lab report page #s: ____

4.6 Were dilution factors greater than 1 for ***organic*** analyses? Yes ____ No X NA ____

If **yes**, list analytical method, lab/sample IDs, and reason for raised dilution factors: dilution ____ high-analyte levels ____ matrix interferences ____ other ____

4.7 Were dilution factors greater than 1 for **inorganic** analyses? Yes X No ____ NA ____

If **yes**, list analytical method, lab/sample IDs, and reason for raised dilution factors: dilution ____ high-analyte levels ____ matrix interferences ____ other ____

Perchlorate by IC/MS/MS: 14 samples had dilution factors >1.0

9020 TOX samples: CAFB-V (DAF150189-001) p.309 CAFB-S DAF150189-003 (p.310)

300 (Cl) - 10 samples had dilution factors >1.0

4.8 Additional comments about sample analyses: ____

Laboratory Lot No: SDG: CANNON-4

5.0 QUALITY CONTROL (QC) ANALYSES and RESULTS

5.1 Were any target analytes detected in the **Laboratory Method Blanks**? Yes X No____

If **yes**, list method, analytes, report page #s: 8260B 1 analyte (p. 343) (p. 350)
8270C 1 analyte (p. 356) 6010B Al, Ba, Be (p. 444-445)
Perchlorate IC/MS/MS p. 434 7470A Hg (p. 446)
6020 Cr (p. 444) (p. 446) ~~353.2 (NO_3)~~ 354.1 NO_2 (p. 467)
300 SO4 (p. 468)

5.2 Did lab control samples (LCS/LSCD) meet percent recoveries (%R) criteria? Yes X No____

If **no**, list method, analytes, LCS/LCSD, and report page #s:____

5.3 Did the **MS/MSD** results meet %R or RPD acceptance criteria? Yes____ No X NA____

Note: matrix spike and matrix spike duplicate (MS/MSD) data are used to evaluate the effect of sample matrix on the analytical process and should be only used in conjunction with other available lab QC data. In some cases, MS samples not directly associated with this lot may be used by the laboratory.

List analytical method and if MS samples are associated with this lot.

If did not meet acceptance criteria also list analytes; MS, MSD or RPD; and lab report page #:

8310 1 analyte MS/MSD (p. 430) associated MS lot # yes X no____
8310 2 analyte MS only (p. 432) associated MS lot # yes____ no X
354.1 NO_2 MS (p. 476) associated MS lot # yes____ no X
300 SO4 MS/MSD (p. 476) associated MS lot # yes X no____

No MS results reported for method(s):____

5.4 Did the **lab-sample duplicate** results meet RPD acceptance criteria? Yes X No____ NA____

5.5 Additional comments about QC results:____

Laboratory Lot No: SOG: CANNON-4

6.0 ANALYTICAL METHODS USED in this LABORATORY LOT NUMBER

_____ VOCs by GC/MS--method 8260B/ 524.2 *[water (W) or solids (S) analysis holding-time (HT) of 14 days]*

_____ Gasoline Range Organics (GRO)+BTEX-method 8015M(GRO)/ 8021 *[W and S: analysis HT 14 days]*

_____ Diesel Range Organics-method 8015M-DRO *[W: prep HT 7 days; S: prep HT 14 days; analysis HT 40 days]*

_____ Pesticides by GC--method 8081A *[W: prep HT 7 days; S: prep HT 14 days; analysis HT 40 days]*

_____ PCBs by GC--method 8082 *[W: prep HT 7 days; S: prep HT14 days; analysis HT 40 days]*

_____ Pesticides by GC--method 8141A *[W: prep HT 7 days; S: prep HT 14 days; analysis HT 40 days]*

_____ Herbicides by GC--method 8151A *[W: prep HT 7 days; S: prep HT14 days; analysis HT 40 days]*

_____ SVOCs by GC/MS--method 8270C *[W: prep HT 7 days; S: prep HT14 days; analysis HT 40 days]*

_____ Dioxins and Furans--methods 8280/ 8290 *[W and S: prep HT 30 days; analysis HT 45 days]*

_____ PAHs by HPLC method 8310 *[W: prep HT 7 days; S: prep HT14 days; analysis HT 40 days]*

_____ Explosives by HPLC method 8330 or 8321A *[W: prep HT 7 days; S: prep HT14 days; analysis HT 40 days]*

_____ Hexane extractable materials (HEM and SGT-HEM)-method 1664/ 9071B *[W/S: analysis HT 28 days]*

_____ Total or dissolved organic carbon (TOC/DOC)--methods 415.1 or 9060 *[W: analysis HT 28 days]*

_____ Perchlorate--methods 314.0 or 8321A or IC/MS/MS

_____ Total organic halides (TOX)--method 9020 *[W: analysis HT 28 days]*

X Metals by ICP--method 6010B/200.7 Dissolved _____Total _____ *[W and S: analysis HT 180 days]*

_____ Metals by ICP/MS--method 6020/200.8 Dissolved _____Total _____ *[W and S: analysis HT 180 days]*

_____ Metals by GFAA methods *[W and S: analysis HT 180 days]* Methods:Sb-7041, As-7060, Cd-7131 Cr-7191, Pb-7421, Se-7740, Tl-7841 List GFAA metals: _____

_____ Hexavalent chromium--method 7196 *[W: analysis HT **24 hours**]*

_____ Mercury by CVAA--method 7470A (W) and 7471A (S) *[W and S: analysis HT 28 days]*

_____ Inorganic anions--method 300 *[W: analysis HT **48 hours**- NO_2, NO_3, ortho-P; HT 28 days--Br,Cl ,F, SO_4]*

_____ Total dissolved solids (TDS)--method 160.1 and(or) TSS--method 160.2 *[W: analysis HT 7 days]*

_____ Total alkalinity--method 310.1 *[W: analysis HT 14 days]*

_____ Nitrogen, ammonia--method 350.1 *[W: analysis HT 28 days]*

_____ Nitrogen, TKN--method 351.2 *[W: analysis HT 28 days]*

_____ Nitrogen, nitrate + nitrite--method 353.2 *[W: analysis HT 28 days]* NO_3 or NO_2 only *[HT **48 hours**]*

_____ Nitrogen, nitrite--method 354.1 *[W: analysis HT **48 hours**]*

_____ Total phosphorus-method 365.3 and ortho P by 365.3 *[total P: W: analysis HT 28 days, ortho P **48 hours**]*

_____ Cyanide, total and(or) amenable--methods 9012A/ 335.3 *[W and S: analysis HT 14 days]*

_____ Moisture content--methods D2216 or 160.3M

_____Other analyses: _____

_____

LABORATORY DATA VALIDATION CHECKLIST

SECTION 1.0: GENERAL INFORMATION (also see Appendix A)

Data reviewer(s) name, affiliation, title, signature, and date of review:

Fredrick E. Gebhardt, USGS-WRD, Hydrologic Technician 01APR2005

Data Inventory

1.1 Sample project number: Severn Trent No. D4F150189, D4F160246, and D4F170353

1.2 Operable unit and site: Cannon Air Force Base; Landfill 5 Site, Sewage Lagoons, and Perimeter Wells.

Sample collection date: June 14, 15, and 16, 2005

1.3 Sample locations (location IDs): CAFB-A, CAFB-B, CAFB-C, CAFB-D, CAFB-E, CAFB-F, CAFB-G, CAFB-H, CAFB-S, CAFB-T, CAFB-U, CAFB-V, CAFB-W, CAFB-X; samples CAFB-D-1, and CAFB-XX are duplicate samples; sample CAFB-X-EB is an equipment blank sample.

1.4 Sample matrix (ground water, soil, other): ground water

1.5 Type and number of field samples (environmental and quality control) in sample project:

Type	number	Type	number
environmental	14	MS/MSD	1 pair
field duplicate	2	trip blank	3
equipment blank	1	ambient blank	0

Data validation level: note--see appendix A for description of different levels

LEVEL 1

SECTION 2.0: DATA REPORTS AND COMPLETENESS

Name of reviewer(s) and review date: Fredrick E. Gebhardt 01APR2005

Laboratory Data Reports

2.1 Analytical Results Report--report date: July 29, 2004

2.2 Raw Data Report--number of volumes: Raw data not reviewed

2.3 Was completeness of lab reports acceptable? Yes √ No ____

(overview, analytical results, quality-control report)

Data Completeness

2.4 Were all samples requested on chain of custody form analyzed by lab? Yes √ No ___

	Volatiles	Semi-Volatiles	Pesticides & PCB's	Herbicides
requested:	22	19	19	19
analyzed:	22	19	19	19

	Dioxins & Furans	PAH	Total Metals	General Chemistry
requested:	19	19	19	19
analyzed:	19	19	19	19

	Perchlorate
requested:	19
analyzed:	19

2.5 List cancelled analyses on cancelled-data worksheet: N/A

2.6 Were sample cooler seals intact upon receipt by lab? Yes

2.7 What were the sample cooler temperatures upon receipt by lab?
2.3 - 5.3°C @ Severn Trent

2.8 Additional comments:
N/A

SECTION 3.0: DATA VALIDATION REVIEW

In the following table (Table II-1), the resulting data from the June 14, 15, and 16, 2005, sampling round is reviewed for the following data validation parameters: holding times, surrogate spike recovery, field duplicates, equipment blanks, lab control samples, lab method blanks, matrix spike and duplicates, and results over the reporting limits with qualifiers. Data validation parameters are reviewed for compliance with individual requirements for each parameter specific to the individual analyses of Volatiles (SW8260B), Semi-volatiles (SW8270C), Pesticides (SW8081A), PCBs (SW8082), Herbicides (SW8151A), Dioxins/Furans (SW8280A), PAHs (SW8310), Explosives (SW8321A), Total Metals (SW6010B and SW6020) and mercury (SW7470A), Perchlorate (SW8321A), General Chemistry; cyanide (SW9012A), sulfide (SW9034), TOC (SW9060), TOX (SW9020B), sulfate (E300), nitrate-nitrite (MCAWW353.2/354.1), and total dissolved solids (MCAWW160.1).

Table II-1. Cannon Air Force Base Data Validation: June 14 - 16, 2004, sampling (USEPA, 1994a; USEPA, 1994b; USGS, 1992)

Data Validation Parameters	Volatile Organic Compounds by Method SW8260B	Semivolatile Organic Compounds by Method SW8270C	Organochlorine Pesticides and PCBs by Method SW8081A/SW8082	Chlorinated Herbicides by Method SW8151A
Holding times	14 days sample to analysis	7 days sample to extraction; 40 days extraction to analysis	7 days sample to extraction; 40 days extraction to analysis	7 days sample to extraction; 40 days extraction to analysis
Met	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes
Surrogate Spike Recovery	% R within 3 standard deviation (SD) of historical laboratory performance	% R within 3 SD of historical laboratory performance	% R within 3 SD of historical laboratory performance	% R within 3 SD of historical laboratory performance
Met	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes
Field Duplicates	RPD $\leq$ 30%	RPD $\leq$ 30%	RPD $\leq$ 30%	RPD $\leq$ 30%
Met	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes
Equipment Blanks	$\leq$ 2 x RL	$\leq$ RL	$\leq$ RL	$\leq$ RL
Met	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes
Lab Control Samples	%R and RPD within 3 SD of historical laboratory performance	%R and RPD within 3 SD of historical laboratory performance	%R and RPD within 3 SD of historical laboratory performance	%R and RPD within 3 SD of historical laboratory performance
Met	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes
Matrix Spike and Duplicates	% R and RPD within 3 SD of historical laboratory performance	% R and RPD within 3 SD of historical laboratory performance	% R and RPD within 3 SD of historical laboratory performance	% R and RPD within 3 SD of historical laboratory performance
Met	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes
Results over RL with Qualifiers	List: none	List: none	List: none	List: none

Table II-1. Cannon Air Force Base Data Validation: June 14 - 16, 2004, sampling (USEPA, 1994a; USEPA, 1994b; USGS, 1992)

Data Validation Parameters	Dioxins and Furans by Method SW8280A	Polynuclear Aromatic Hydrocarbons (PAHs) by Method SW8310	Total Metals by Method SW6010B/SW 6020; Mercury by Method SW7470A	Cyanide by Method SW9012A; Sulfide by Method SW 9034
Holding times	30 days sample to extraction; 45 days extraction to analysis	7 days sample to extraction; 40 days extraction to analysis	Mercury 28-days sample to analysis; all others 180-days sample to analysis	Cyanide 14 days sample to analysis; Sulfide 7 days sample to analysis
Met	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes
Surrogate Spike Recovery	% R within 3 SD of historical laboratory performance	% R within 3 SD of historical laboratory performance	Not Applicable	Not Applicable
Met	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☐ Yes ☐ No, see notes	☐ Yes ☐ No, see notes
Field Duplicates	RPD ≤ 30%	RPD ≤ 30%	RPD ≤ 30%	RPD ≤ 30%
Met	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☐ Yes ☑ No, see notes	☑ Yes ☐ No, see notes
Equipment Blanks	≤ RL	≤ RL	< 2 x RL	≤ 2 x RL
Met	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes
Lab Control Samples	%R and RPD within 3 SD of historical laboratory performance	%R and RPD within 3 SD of historical laboratory performance	%R and RPD within 3 SD of historical laboratory performance	%R and RPD within 3 SD of historical laboratory performance
Met	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes
Matrix Spike and Duplicates	% R and RPD within 3 SD of historical laboratory performance	% R and RPD within 3 SD of historical laboratory performance	% R and RPD within 3 SD of historical laboratory performance	% R and RPD within 3 SD of historical laboratory performance
Met	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes
Results over RL with Qualifiers	List: none	List: none	List: Method blank contamination for barium in CAFB V, S, X, G, H, T, C, D, U, B, A, and F, for chromium in CAFB S, G, H, E, A, and F, and for Aluminum in CAFB W	List: none

Table II-1. Cannon Air Force Base Data Validation: June 14 - 16, 2004, sampling (USEPA, 1994a; USEPA, 1994b; USGS, 1992)

Data Validation Parameters	Total Organic Carbon (TOC) by Method SW9060	Total Organic Halogens (TOXs) by Method SW9020B	Sulfate by Method 300.0
Holding times	28-days sample to analysis	28-days sample to analysis	28-days sample to analysis
Met	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes
Surrogate Spike Recovery	Not Applicable	Not Applicable	Not Applicable
Met	☐ Yes ☐ No, see notes	☐ Yes ☐ No, see notes	☐ Yes ☐ No, see notes
Field Duplicates	RPD ≤ 30%	RPD ≤ 30%	RPD ≤ 30%
Met	☑ Yes ☐ No, see notes	☐ Yes ☑ No, see notes	☑ Yes ☐ No, see notes
Equipment Blanks	≤ RL	≤ RL	≤ 2 x RL
Met	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes
Lab Control Samples	%R and RPD within 3 SD of historical laboratory performance	%R and RPD within 3 SD of historical laboratory performance	%R and RPD within 3 SD of historical laboratory performance
Met	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes
Matrix Spike and Duplicates	% R and RPD within 3 SD of historical laboratory performance	% R and RPD within 3 SD of historical laboratory performance	% R and RPD within 3 SD of historical laboratory performance
Met	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes
Results over RL with Qualifiers	List: none	List: none	List: Elevated reporting limits due to high analyte levels for sulfate in CAFB V, S, W, G, H, T, C, U, E, B, A, and F; method blank contamination for sulfate in CAFB X, G, W, H, T, and C.

Table II-1. Cannon Air Force Base Data Validation: June 14 - 16, 2004, sampling (USEPA, 1994a; USEPA, 1994b; USGS, 1992)

Data Validation Parameters	Nitrite and Nitrate by Methods MCAWW353.2/354.1	Total Dissolved Solids by Method MCAWW160.1	Perchlorate by Method 8321A
Holding times	Nitrite 48 hours sample to analysis; Nitrate 28 days sample to analysis	7-days sample to analysis	7 days sample to extraction; 40 days extraction to analysis
Met	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes
Surrogate Spike Recovery	Not Applicable	Not Applicable	Not Applicable
Met	☐ Yes ☐ No, see notes	☐ Yes ☐ No, see notes	☐ Yes ☐ No, see notes
Field Duplicates	RPD ≤ 30%	RPD ≤ 30%	RPD ≤ 30%
Met	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes
Equipment Blanks	≤ 2 x RL	≤ 2 x RL	≤ RL
Met	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes
Lab Control Samples	%R and RPD within 3 SD of historical laboratory performance	%R and RPD within 3 SD of historical laboratory performance	%R and RPD within 3 SD of historical laboratory performance
Met	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes
Matrix Spike and Duplicates	% R and RPD within 3 SD of historical laboratory performance	%R and RPD within 3 SD of historical laboratory performance	%R and RPD within 3 SD of historical laboratory performance
Met	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes	☑ Yes ☐ No, see notes
Results over RL with Qualifiers	List: none	List: none	List: Method blank contamination in CAFB D, U, E, B, A, and F,

Table II-2. Cannon Air Force Base Data Validation: June 14 - 16, 2004- notes

Analyte and Method:	Notes of Data Validation Parameters:
Volatile Organic Compounds by Method SW8260B	None
Semivolatile Organic Compounds by Method SW8270C	None
Organochlorine Pesticides and PCBs by Method SW8081A/SW8082	None
Chlorinated Herbicides by Method SW8151A	None
Dioxins and Furans by Method SW8280A	None
Polynuclear Aromatic Hydrocarbons (PAHs) by Method SW8310	None
Total Metals by Method SW6010B/SW 6020; Mercury by Method SW7470A	RPD of Zinc in CAFB D and duplicate, CAFB D1, are more than 30%
Cyanide by Method SW9012A; Sulfide by Method SW 9034	None
Total Organic Carbon (TOC) by Method SW9060	None
Total Organic Halogens (TOXs) by Method SW9020B	RPD of TOXs in CAFB D and duplicate, CAFB D1, are more than 30%
Sulfate by Method 300.0	None
Nitrite and Nitrate by Methods MCAWW353.2/354.1	None

Table II-2. Cannon Air Force Base Data Validation: June 14 - 16, 2004- notes

Analyte and Method:	**Notes of Data Validation Parameters:**
Total Dissolved Solids by Method MCAWW160.1	None
Perchlorate by Method 8321A	None

Appendix A -- Laboratory Data Validation Checklist

Instruction Notes for the Data Validation Checklist

This data validation checklist will be used when validating the chemical analytical results. Data validation is a systematic and independent verification of data quality and consists of checking, verifying, evaluating, and qualifying the chemical analytical results.

Two different levels of data validation are used with level I being not as detailed or as rigorous as level II. Level I data validation includes: (1) checking holding times limits, (2) evaluating the results of field and laboratory quality-control (QC) samples such as field replicates, matrix spikes, surrogate samples, and duplicate control samples, and (3) checking that contamination during sample processing has not occurred in QC blanks such as equipment, method, ambient, and trip blanks. Most of the information and data used to conduct a level I data validation is contained in the summary-data reports prepared by the reporting laboratory. Level II data validation includes all the level I guidelines plus using the raw-data reports prepared by the reporting laboratory to: (1) check that the laboratory instruments have been properly tuned and calibrated, and (2) verify that selected sample results do not have any omissions, problems, discrepancies, transcription errors, and reduction (dilution, conversion) errors.

Field samples (environmental and QC) are processed and analyzed by the reporting laboratory in specific groups of samples called sample projects (also called sample cases). A sample project usually consists of 20 or fewer samples that are collected from one or more sampling locations (monitoring well) in a given sampling period. Numerous laboratory QC samples also are analyzed with the field samples for each sample project.

This data validation checklist is designed to be used when validating the analytical results for a given sample project and it has a multi-level organization. The first part of the checklist contains general information (section 1.0) about the scope (who, when, how, and what) of the data validation and data reports and completeness (section 2.0) for each sample project. Sections 1.0 and 2.0 will be completed and included with all data validation checklists. The data validation checklist also contains numerous supplemental sections that are listed at the bottom of the first page of this document. These supplemental checklist sections are used for specific analytical methods and will be marked with a checkmark (√) when they are completed for a given sample project. Specific project-required frequency and QC acceptance criteria, and pertinent reference page numbers are listed with most of the checklist items. The major data-validation references are the USEPA guidance documents (USEPA 1994).

References

USEPA, 1994a, USEPA Contract laboratory program national functional guidelines for organic data review, February 1994, Publication 9240.1-05, Document number PB94-963501, 124 p.

USEPA, 1994b, USEPA contract laboratory program national functional guidelines for inorganic data review, February 1994, Publication 9240.1-05-01, Document number PB94-963502, 42 p.

USGS, 1992, Laboratory data validation checklist: Wyoming District, U.S. Geological Survey checklist prepared for the U.S. Air Force, multiple pages.

APPENDIX III

USGS protocols, sample container and preservation requirements, and documentation for Cannon Air Force Base monitoring wells.

Field protocols for Cannon Air Force Base monitoring wells.

1. Preparation for purging and sampling

Water levels are first measured using a Solinst electric tape.

Meters for collecting water field parameters are calibrated. Meters used are: Orion pH meter, model 250A; Orion conductance meter, model 126; YSI dissolve oxygen meter, model 57.

Nitrogen gas is connected to air intake valve on purge/sample pump. Nitrogen gas pressure varies on each well.

2. Purging of well prior to sampling.

Three well volumes of water are removed or stabilization of field parameters is achieved at each well prior to sampling. Field parameters are collected at the beginning of purging and after every five gallons of water purged thereafter. All purged water is delivered to a water tank on-site next to each well.

Each well is equipped with a dedicated Bennett Pump. Dedicated pumps require no decontamination and no equipment blanks to be collected (except for initial installation).

A Bennett Pump contains an automatic reciprocating piston motor operated by compressed air, which generates power for operating a double acting, piston fluid pump. Each pump is set just above the water table with an approximate ten foot extension discharge hose attached to the bottom of the pump and submerged in the groundwater.

3. Sample collection.

Nitrogen gas pressure is reduced. EPA's Groundwater Sampling Protocols are followed, including sampling procedures and the order in which each sample bottle is collected.

After samples are collected, each bottle is labeled, bagged, and stored on ice until samples are packed for shipping. Each label contains the following information: Collecting agency, Location, Sample ID, Date and time, Sample type, Analytical methods, Collectors, and Bottle type and number.

4. Shipping.

Sample bottles are packed in a cooler with bagged ice and packing material. Analytical Request/Chain of Custody forms are placed in a sealed plastic bag on top of the sample bottles. Coolers are sealed with strapping tape and a Chain of Custody seal with seal number.

Coolers are shipped by Federal Express shipping company. Coolers are shipped overnight, and shipped on the same day samples were collected.

Sample container and preservation requirements for Cannon Air Force Base monitoring wells

Parameters and methods	Bottle Size and Type	Preservatives
Appendix-IX, Volatile Organic Compounds by SW8260B	Three 40-ml glass vials	200 uL 50 % Hydrochloric Acid, Chilled to maintain 4 degrees Celsius
Appendix-IX, Semivolatile Organic Compounds SW8270C	Two 1-liter glass (amber)	None, Chilled to maintain 4 degrees Celsius
Appendix-IX, Pesticides and PCB's by SW8081A/8082	Two 1-liter glass (amber)	None, Chilled to maintain 4 degrees Celsius
Appendix-IX, Dioxins and Furans by SW8280	1-liter glass (amber)	None, Chilled to maintain 4 degrees Celsius
Polynuclear Aromatic Hydrocarbons by SW8310	1-liter glass (amber)	None, Chilled to maintain 4 degrees Celsius
Appendix-IX, Herbicides by SW8151A	Two 1-liter glass (amber)	None, Chilled to maintain 4 degrees Celsius
Appendix-IX, Total Metals: 16 metals by SW6010B; 8 metals by SW6020; Mercury by SW7470A	500-ml polyethylene	10 mL 20% Nitric Acid, pH<2
Cyanide by SW9012A	250-ml polyethylene	2 mL 50% Sodium Hydroxide, pH>12
Sulfide by SW9030B/9030	250-ml polyethylene	1 mL 1N Zinc Acetate plus 1 mL 50% Sodium Hydroxide, pH>9
Total Organic Carbon (TOC) by SW9060	500-ml glass (amber)	2 mL 50% Sulfuric Acid, pH<2
Total Organic Halogen, (TOX) by SW9020B	500-ml glass (amber)	1 mL 50% Sulfuric Acid, pH<2
Perchlorate by LC/MS, SW8321A	40-ml glass vial	None, Chilled to maintain 4 degrees Celsius
Total Dissolved Solids by E160.1; Anions by E300; Nitrate by E353.2; Nitrite by E354.1	1-liter polyethylene	None, Chilled to maintain 4 degrees Celsius

U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION, NEW MEXICO DISTRICT
ANALYTICAL REQUEST/CHAIN OF CUSTODY

5.3° KB 6/15/04

Project Name & Number: Cannon Air Force Base, Ground Water Sampling 8636-9JV01	PACKING AND SHIPPING DETAILS
	Packed and Sealed for Shipping by: J. Langman & L. Donohoe
	Seal Number: 420327
Sampling Location: Landfill-5, Cannon Air Force Base, NM	Delivered to Shipper by: J. Langman & L. Donohoe
	Airbill Number: 8324 3545 8320
Team Leader: Project chief -- Fred Gebhardt	Sampling Status: ☐ Done ☑ Continuing

Sample Date	Sample Time	Field Sample Number	Sample Type	No. of Containers	Analytical Methods (Parameters)	Remarks
6/14/04	1425	CAFB-5	Ground-water	~~18~~ 15	All Apx-IX: [redacted], SW8270C, SW8280, SW8310, SW8081, SW8082, SW8151, Total-METALS: SW6010(Al,Ba,Be,Ca, Co, Cu, Fe, Mg, Mn, Mo, Ni, K, Na, Sn, V, Zn), SW6020-ICP-MS (Sb, Ag, Cd, As, Cr, Pb, Se, Tl), SW7470 (Hg), SW9012,SW9030, SW9060, SW9020, SW8321A, E353.2, E354.1, E300, E160.1	Environmental Sample
		NOTE: VOCs (SW8260B) SAMPLES IN COOLER WITH WELL CAFB-V SAMPLE.				

Additional Comments

Please batch together all groundwater samples collected from wells on Cannon Air Force Base during the week of June 14, 2004. Thanks.

CHAIN OF CUSTODY RECORD				LABORATORY LOG-IN OF SAMPLE SHIPPING CONTAINER	
Relinquished by (signed)	Received by (signed)	Date	Time	Analytical Laboratory	Seal Intact upon Receipt ☐ Yes ☐ No
[signature]	FEDEX	6/14/04	1600	SEVERN TRENT SERVICES 4955 Yarrow Street Arvada, CO 80002 ph: (303) 736-0118 Attention: Susan Decker	Condition of Contents
	[signature]	6/15/04	0800		Contents Temperature
					Laboratory Project Number

U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION, NEW MEXICO DISTRICT
ANALYTICAL REQUEST CHAIN OF CUSTODY

0.7 XB 6/15/04

Project Name & Number		PACKING AND SHIPPING DETAILS	
Cannon Air Force Base, Ground Water Sampling 8636-9JV01		Packed and Sealed for Shipping by R. Wilcox & R.K. DeWees	Seal Number 343886
Sampling Location Landfill-5, Cannon Air Force Base, NM		Delivered to Shipper by R. Wilcox & R.K. DeWees	Airbill Number 832435458320
Team Leader Project chief -- Fred Gebhardt		Sampling Status ☐ Done ☒ Continuing	

Sample Date	Sample Time	Field Sample Number	Sample Type	No. of Containers	Analytical Methods (Parameters)	Remarks
5/14/04	1420	CAFB-V	Ground-water	18	All Apx-IX: SW8260B, SW8270C, SW8280, SW8310, SW8081, SW8082, SW8151, Total-METALS: SW6010(Al,Ba,Be,Ca, Co, Cu, Fe, Mg, Mn, Mo, Ni, K, Na, Sn, V, Zn), SW6020-ICP-MS (Sb, Ag, Cd, As, Cr, Pb, Se, Tl), SW7470 (Hg), SW9012, SW9030, SW9060, SW9020, SW8321A, E353.2, E354.1, E300, E160.1	Environmental Sample
"	1500	CAFB-V1	Field QC Blank	3	SW8260B only	Trip Blank

Additional Comments This cooler also contains the VOC samples for sample CAFB-5.

Please batch together all groundwater samples collected from wells on Cannon Air Force Base during the week of June 14, 2004. Thanks.

CHAIN OF CUSTODY RECORD				LABORATORY LOG-IN OF SAMPLE SHIPPING CONTAINER	
Relinquished by (signed)	Received by (signed)	Date	Time	Analytical Laboratory	Seal Intact upon Receipt ☐ Yes ☐ No
[signature]	to Fed Ex	6/14/04	1600	SEVERN TRENT SERVICES 4955 Yarrow Street Arvada, CO 80002 ph: (303) 736-0118 Attention: Susan Decker	Condition of Contents
	[signature]	6/15/04	0900		Contents Temperature
					Laboratory Project Number

U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION, NEW MEXICO DISTRICT
ANALYTICAL REQUEST/CHAIN OF CUSTODY

Project Name & Number	PACKING AND SHIPPING DETAILS	
Cannon Air Force Base, Ground Water Sampling 8636-9JV01	Packed and Sealed for Shipping by: R. Wilcox & R.K. DeWees	Seal Number: 555929
Sampling Location: Landfill-5, Cannon Air Force Base, NM	Delivered to Shipper by: R. Wilcox & R.K. DeWees	Airbill Number: 832435458319
Team Leader: Project chief -- Fred Gebhardt	Sampling Status: ☐ Done ☒ Continuing	

Sample Date	Sample Time	Field Sample Number	Sample Type	No. of Containers	Analytical Methods (Parameters)	Remarks
06/15/04	1430	CAFB- C	Ground-water	18	All Apx-IX: SW8260B, SW8270C, SW8280, SW8310, SW8081, SW8082, SW8151, Total-METALS: SW6010(Al,Ba,Be,Ca, Co, Cu, Fe, Mg, Mn, Mo, Ni, K, Na, Sn, V, Zn), SW6020-ICP-MS (Sb, Ag, Cd, As, Cr, Pb, Se, Tl), SW7470 (Hg), SW9012,SW9030, SW9060, SW9020, SW8321A, E353.2, E354.1, E300, E160.1	Environmental Sample
"	0900	CAFB-X-TB	Field QC Blank	2	SW8260B only	Trip Blank

Additional Comments: This cooler also contains the VOC & perchlorate bottles for samples CAFB-X, CAFB-XX, CAFB-X-EB, CAFB-W, and CAFB-T; and just the VOC bottles for samples CAFB-G and CAFB-H.

Please batch together all groundwater samples collected from wells on Cannon Air Force Base during the week of June 14, 2004. Thanks.

CHAIN OF CUSTODY RECORD				LABORATORY LOG-IN OF SAMPLE SHIPPING CONTAINER	
Relinquished by (signed)	Received by (signed)	Date	Time	Analytical Laboratory	Seal Intact upon Receipt ☐ Yes ☐ No
[signature]	to Fed Ex	6/15/04	1600	SEVERN TRENT SERVICES 4955 Yarrow Street Arvada, CO 80002 ph: (303) 736-0118 Attention: Susan Decker	Condition of Contents
	[signature]	6/15/04	0915		Contents Temperature
					Laboratory Project Number

U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION, NEW MEXICO DISTRICT
ANALYTICAL REQUE CHAIN OF CUSTODY

6/16

Project Name & Number	PACKING AND SHIPPING DETAILS	
Cannon Air Force Base, Ground Water Sampling 8636-9JV01	Packed and Sealed for Shipping by: R. Wilcox & R.K. DeWees	Seal Number: 420387
Sampling Location: Landfill-5, Cannon Air Force Base, NM	Delivered to Shipper by: R. Wilcox & R.K. DeWees	Airbill Number: 832435458319
Team Leader: Project chief -- Fred Gebhardt	Sampling Status: ☐ Done ☒ Continuing	

Sample Date	Sample Time	Field Sample Number	Sample Type	No. of Containers	Analytical Methods (Parameters)	Remarks
06/15/04	1300	CAFB-W	Ground-water	18	All Apx-IX: SW8260B, SW8270C, SW8280, SW8310, SW8081, SW8082, SW8151, Total-METALS: SW6010(Al,Ba,Be,Ca Co, Cu, Fe, Mg, Mn, Mo, Ni, K, Na, Sn, V, Zn), SW6020-ICP-MS (Sb, Ag, Cd, As, Cr, Pb, Se, Tl), SW7470 (Hg), SW9012,SW9030, SW9060, SW9020, SW8321A, E353.2, E354.1, E300, E160.1	Environmental Sample

Additional Comments: The VOC's and perchlorate samples are in another cooler w/ seal no. 555429.

Please batch together all groundwater samples collected from wells on Cannon Air Force Base during the week of June 14, 2004. Thanks.

CHAIN OF CUSTODY RECORD				LABORATORY LOG-IN OF SAMPLE SHIPPING CONTAINER	
Relinquished by (signed)	Received by (signed)	Date	Time	Analytical Laboratory	Seal Intact upon Receipt ☐ Yes ☐ No
[signature]	to Fed Ex	6/15/04	1600	SEVERN TRENT SERVICES 4955 Yarrow Street Arvada, CO 80002 ph: (303) 736-0118 Attention: Susan Decker	Condition of Contents
	[signature]	6/15/04	0915		Contents Temperature
					Laboratory Project Number

U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION, NEW MEXICO DISTRICT
ANALYTICAL REQUEST/CHAIN OF CUSTODY

2.3 6/16/04

Project Name & Number	PACKING AND SHIPPING DETAILS	
Cannon Air Force Base, Ground Water Sampling 8636-9JV01	Packed and Sealed for Shipping by: R. Wilcox & R.K. DeWees	Seal Number: 420117
Sampling Location: Landfill-5, Cannon Air Force Base, NM	Delivered to Shipper by: R. Wilcox & R.K. DeWees	Airbill Number: 832435458319
Team Leader: Project chief -- Fred Gebhardt	Sampling Status: ☐ Done ☒ Continuing	

Sample Date	Sample Time	Field Sample Number	Sample Type	No. of Containers	Analytical Methods (Parameters)	Remarks
6/15/04	0930	CAFB-XX	Ground-water	18	All Apx-IX: SW8260B, SW8270C, SW8280, SW8310, SW8081, SW8082, SW8151, Total-METALS: SW6010(Al,Ba,Be,Ca, Co, Cu, Fe, Mg, Mn, Mo, Ni, K, Na, Sn, V, Zn), SW6020-ICP-MS (Sb, Ag, Cd, As, Cr, Pb, Se, Tl), SW7470 (Hg), SW9012,SW9030, SW9060, SW9020, SW8321A, E353.2, E354.1, E300, E160.1	Environmental Sample

Additional Comments: The VOC's and perchlorate samples are in another cooler w/ seal no. 555929.

Please batch together all groundwater samples collected from wells on Cannon Air Force Base during the week of June 14, 2004. Thanks.

CHAIN OF CUSTODY RECORD				LABORATORY LOG-IN OF SAMPLE SHIPPING CONTAINER	
Relinquished by (signed)	Received by (signed)	Date	Time	Analytical Laboratory	Seal Intact upon Receipt ☐ Yes ☐ No
[signature]	to Fed Ex	6/15/04	1600	SEVERN TRENT SERVICES 4955 Yarrow Street Arvada, CO 80002 ph: (303) 736-0118 Attention: Susan Decker	Condition of Contents
	[signature]	6/15/04	0915		Contents Temperature
					Laboratory Project Number

U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION, NEW MEXICO DISTRICT
ANALYTICAL REQUEST CHAIN OF CUSTODY

4.2° NB
6/16/04

Project Name & Number: Cannon Air Force Base, Ground Water Sampling 8636-9JV01	PACKING AND SHIPPING DETAILS
Sampling Location: Landfill-5, Cannon Air Force Base, NM	Packed and Sealed for Shipping by: R. Wilcox & R.K. DeWees — Seal Number: 555879
Team Leader: Project chief -- Fred Gebhardt	Delivered to Shipper by: R. Wilcox & R.K. DeWees — Airbill Number: 832435458319
	Sampling Status: ☐ Done ☒ Continuing

Sample Date	Sample Time	Field Sample Number	Sample Type	No. of Containers	Analytical Methods (Parameters)	Remarks
06/15/04	0915	CAFB-X	Ground-water	18	All Apx-IX: SW8260B, SW8270C, SW8280, SW8310, SW8081, SW8082, SW8151, Total-METALS: SW6010(Al,Ba,Be,Ca Co, Cu, Fe, Mg, Mn, Mo, Ni, K, Na, Sn, V, Zn), SW6020-ICP-MS (Sb, Ag, Cd, As, Cr, Pb, Se, Tl), SW7470 (Hg), SW9012,SW9030, SW9060, SW9020, SW8321A, E353.2, E354.1, E300, E160.1	Environmental Sample

Additional Comments: The VOC's & perchlorate samples are in another cooler w/ seal no 555929

Please batch together all groundwater samples collected from wells on Cannon Air Force Base during the week of June 14, 2004. Thanks.

CHAIN OF CUSTODY RECORD				LABORATORY LOG-IN OF SAMPLE SHIPPING CONTAINER	
Relinquished by (signed)	Received by (signed)	Date	Time	Analytical Laboratory	Seal Intact upon Receipt ☐ Yes ☐ No
[signature]	to Fed Ex	6/15/04	1600	SEVERN TRENT SERVICES 4955 Yarrow Street Arvada, CO 80002 ph: (303) 736-0118 Attention: Susan Decker	Condition of Contents
	[signature]	6/15/04	0915		Contents Temperature
					Laboratory Project Number

U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION, NEW MEXICO DISTRICT
ANALYTICAL REQUEST/CHAIN OF CUSTODY

5.8 KB 6/16/02

Project Name & Number Cannon Air Force Base, Ground Water Sampling 8636-9JV01	PACKING AND SHIPPING DETAILS Packed and Sealed for Shipping by R. Wilcox & R.K. DeWees
	Seal Number
Sampling Location Landfill-5, Cannon Air Force Base, NM	Delivered to Shipper by R. Wilcox & R.K. DeWees
	Airbill Number
Team Leader Project chief -- Fred Gebhardt	Sampling Status ☐ Done ☒ Continuing

Sample Date	Sample Time	Field Sample Number	Sample Type	No. of Containers	Analytical Methods (Parameters)	Remarks
06/15/04	1120	CAFB- G	Ground-water	18	All Apx-IX: SW8260B, SW8270C, SW8280, SW8310, SW8081, SW8082, SW8151, Total-METALS: SW6010(Al,Ba,Be,Ca, Co, Cu, Fe, Mg, Mn, Mo, Ni, K, Na, Sn, V, Zn), SW6020-ICP-MS (Sb, Ag, Cd, As, Cr, Pb, Se, Tl), SW7470 (Hg), SW9012,SW9030, SW9060, SW9020, SW8321A, E353.2, E354.1, E300, E160.1	Environmental Sample

Additional Comments The VOC's are in another cooler w/seal no. 555929

Please batch together all groundwater samples collected from wells on Cannon Air Force Base during the week of June 14, 2004. Thanks.

CHAIN OF CUSTODY RECORD				LABORATORY LOG-IN OF SAMPLE SHIPPING CONTAINER	
Relinquished by (signed)	Received by (signed)	Date	Time	Analytical Laboratory	Seal Intact upon Receipt ☐ Yes ☐ No
[signature]	to Fed Ex	6/15/04	1600	SEVERN TRENT SERVICES 4955 Yarrow Street Arvada, CO 80002 ph: (303) 736-0118 Attention: Susan Decker	Condition of Contents
	[signature]	6/15/04	0915		Contents Temperature
					Laboratory Project Number

U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION, NEW MEXICO DISTRICT
ANALYTICAL REQUEST CHAIN OF CUSTODY

Project Name & Number	PACKING AND SHIPPING DETAILS	
Cannon Air Force Base, Ground Water Sampling 8636-9JV01	Packed and Sealed for Shipping by: R. Wilcox & R.K. DeWees	Seal Number: 451608
Sampling Location: Landfill-5, Cannon Air Force Base, NM	Delivered to Shipper by: R. Wilcox & R.K. DeWees	Airbill Number: 832435458319
Team Leader: Project chief -- Fred Gebhardt	Sampling Status: ☐ Done ☒ Continuing	

Sample Date	Sample Time	Field Sample Number	Sample Type	No. of Containers	Analytical Methods (Parameters)	Remarks
06/15/04	1000	CAFB-X-EB	~~Ground-water~~ Field QC Blank	18	All Apx-IX: SW8260B, SW8270C, SW8280, SW8310, SW8081, SW8082, SW8151, Total-METALS: SW6010(Al,Ba,Be,Ca Co, Cu, Fe, Mg, Mn, Mo, Ni, K, Na, Sn, V, Zn), SW6020-ICP-MS (Sb, Ag, Cd, As, Cr, Pb, Se, Tl), SW7470 (Hg), SW9012,SW9030, SW9060, SW9020, SW8321A, E353.2, E354.1, E300, E160.1	~~Environmental Sample~~ Bennett pump equipment blank

Additional Comments: The VOC's and perchlorate samples are in another cooler w/ seal no. 555924.

Please batch together all groundwater samples collected from wells on Cannon Air Force Base during the week of June 14, 2004. Thanks.

CHAIN OF CUSTODY RECORD				LABORATORY LOG-IN OF SAMPLE SHIPPING CONTAINER	
Relinquished by (signed)	Received by (signed)	Date	Time	Analytical Laboratory	Seal Intact upon Receipt ☐ Yes ☐ No
R.K. Wilcox	to Fed Ex	6/15/04	1600	SEVERN TRENT SERVICES 4955 Yarrow Street Arvada, CO 80002 ph: (303) 736-0118 Attention: Susan Decker	Condition of Contents
	[illegible]	6/15/04	0915		Contents Temperature
					Laboratory Project Number

U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION, NEW MEXICO DISTRICT
ANALYTICAL REQUEST/CHAIN OF CUSTODY

4.60
6/16/04

Project Name & Number: Cannon Air Force Base, Ground Water Sampling 8636-9JV01	PACKING AND SHIPPING DETAILS
	Packed and Sealed for Shipping by: R. Wilcox & R.K. DeWees — Seal Number: 555919
Sampling Location: Landfill-5, Cannon Air Force Base, NM	Delivered to Shipper by: R. Wilcox & R.K. DeWees — Airbill Number: 832435458319
Team Leader: Project chief -- Fred Gebhardt	Sampling Status: ☐ Done ☒ Continuing

Sample Date	Sample Time	Field Sample Number	Sample Type	No. of Containers	Analytical Methods (Parameters)	Remarks
06/15/04	0945	CAFB-H	Ground-water	18	All Apx-IX: SW8260B, SW8270C, SW8280, SW8310, SW8081, SW8082, SW8151, Total-METALS: SW6010(Al,Ba,Be,Ca, Co, Cu, Fe, Mg, Mn, Mo, Ni, K, Na, Sn, V, Zn), SW6020-ICP-MS (Sb, Ag, Cd, As, Cr, Pb, Se, Tl), SW7470 (Hg), SW9012,SW9030, SW9060, SW9020, SW8321A, E353.2, E354.1, E300, E160.1	Environmental Sample

Additional Comments: The VOC's are in another cooler w/ seal no. 555929.

Please batch together all groundwater samples collected from wells on Cannon Air Force Base during the week of June 14, 2004. Thanks.

CHAIN OF CUSTODY RECORD				LABORATORY LOG-IN OF SAMPLE SHIPPING CONTAINER	
Relinquished by (signed)	Received by (signed)	Date	Time	Analytical Laboratory	Seal Intact upon Receipt ☐ Yes ☐ No
[signature]	to Fed Ex	6/15/04	1600	SEVERN TRENT SERVICES 4955 Yarrow Street Arvada, CO 80002 ph: (303) 736-0118 Attention: Susan Decker	Condition of Contents
	[signature]	6/15/04	0915		Contents Temperature
					Laboratory Project Number

U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION, NEW MEXICO DISTRICT
ANALYTICAL REQUEST CHAIN OF CUSTODY

6/16/04

Project Name & Number	PACKING AND SHIPPING DETAILS	
Cannon Air Force Base, Ground Water Sampling 8636-9JV01	Packed and Sealed for Shipping by R. Wilcox & R.K. DeWees	Seal Number 420377
Sampling Location Landfill-5, Cannon Air Force Base, NM	Delivered to Shipper by R. Wilcox & R.K. DeWees	Airbill Number 832435458319
Team Leader Project chief -- Fred Gebhardt	Sampling Status ☐ Done ☒ Continuing	

Sample Date	Sample Time	Field Sample Number	Sample Type	No. of Containers	Analytical Methods (Parameters)	Remarks
06/15/04	1300	CAFB-T	Ground-water	18	All Apx-IX: SW8260B, SW8270C, SW8280, SW8310, SW8081, SW8082, SW8151, Total-METALS: SW6010(Al,Ba,Be,Ca, Co, Cu, Fe, Mg, Mn, Mo, Ni, K, Na, Sn, V, Zn), SW6020-ICP-MS (Sb, Ag, Cd, As, Cr, Pb, Se, Tl), SW7470 (Hg), SW9012,SW9030, SW9060, SW9020, SW8321A, E353.2, E354.1, E300, E160.1	Environmental Sample

Additional Comments The VOC's and perchlorate samples are in another cooler w/ seal no. 555929.

Please batch together all groundwater samples collected from wells on Cannon Air Force Base during the week of June 14, 2004. Thanks.

CHAIN OF CUSTODY RECORD				LABORATORY LOG-IN OF SAMPLE SHIPPING CONTAINER	
Relinquished by (signed)	Received by (signed)	Date	Time	Analytical Laboratory	Seal Intact upon Receipt ☐ Yes ☐ No
[signature]				SEVERN TRENT SERVICES 4955 Yarrow Street Arvada, CO 80002 ph: (303) 736-0118 Attention: Susan Decker	Condition of Contents
	[signature]	6/15/04	0915		Contents Temperature
					Laboratory Project Number

U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION, NEW MEXICO DISTRICT
ANALYTICAL REQUEST/CHAIN OF CUSTODY

KB 6/17/04

Project Name & Number	PACKING AND SHIPPING DETAILS	
Cannon Air Force Base, Ground Water Sampling 8636-9JV01	Packed and Sealed for Shipping by: J. Langman & L. Donohoe	Seal Number: 589391
Sampling Location: Landfill-5, Cannon Air Force Base, NM	Delivered to Shipper by: J. Langman & L. Donohoe	Airbill Number: 832435457816
Team Leader: Project chief -- Fred Gebhardt	Sampling Status: ☒ Done ☐ Continuing	

Sample Date	Sample Time	Field Sample Number	Sample Type	No. of Containers	Analytical Methods (Parameters)	Remarks
06/16/04	0905	CAFB-D	Ground-water	18	All Apx-IX: SW8260B, SW8270C, SW8280, SW8310, SW8081, SW8082, SW8151, Total-METALS: SW6010(Al,Ba,Be,Ca, Co, Cu, Fe, Mg, Mn, Mo, Ni, K, Na, Sn, V, Zn), SW6020-ICP-MS (Sb, Ag, Cd, As, Cr, Pb, Se, Tl), SW7470 (Hg), SW9012,SW9030, SW9060, SW9020, SW8321A, E353.2, E354.1, E300, E160.1	Environmental Sample

Additional Comments: The VOC's are in another cooler w/ seal no. 555899.

Please batch together all groundwater samples collected from wells on Cannon Air Force Base during the week of June 14, 2004. Thanks.

CHAIN OF CUSTODY RECORD				LABORATORY LOG-IN OF SAMPLE SHIPPING CONTAINER	
Relinquished by (signed)	Received by (signed)	Date	Time	Analytical Laboratory	Seal Intact upon Receipt ☐ Yes ☐ No
[signature]	to Fed Ex	6/16/04	1600	SEVERN TRENT SERVICES 4955 Yarrow Street Arvada, CO 80002 ph: (303) 736-0118 Attention: Susan Decker	Condition of Contents
	[signature]	6/17/04	0915		Contents Temperature
					Laboratory Project Number

U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION, NEW MEXICO DISTRICT
ANALYTICAL REQUEST CHAIN OF CUSTODY

6/17/04

Project Name & Number	PACKING AND SHIPPING DETAILS	
Cannon Air Force Base, Ground Water Sampling 8636-9JV01	Packed and Sealed for Shipping by: R. Wilcox & R.K. DeWees	Seal Number: 555889
Sampling Location: Landfill-5, Cannon Air Force Base, NM	Delivered to Shipper by: R. Wilcox & R.K. DeWees	Airbill Number: 832435457816
Team Leader: Project chief -- Fred Gebhardt	Sampling Status: ☒ Done ☐ Continuing	

Sample Date	Sample Time	Field Sample Number	Sample Type	No. of Containers	Analytical Methods (Parameters)	Remarks
06/16/04	0920	CAFB-D-MSD	Ground-water	18	All Apx-IX: SW8260B, SW8270C, SW8280, SW8310, SW8081, SW8082, SW8151, Total-METALS: SW6010(Al,Ba,Be,Ca, Co, Cu, Fe, Mg, Mn, Mo, Ni, K, Na, Sn, V, Zn), SW6020-ICP-MS (Sb, Ag, Cd, As, Cr, Pb, Se, Tl), SW7470 (Hg), SW9012,SW9030, SW9060, SW9020, SW8321A, E353.2, E354.1, E300, E160.1	~~Environmental Sample~~ Matrix Spike Duplicate

Additional Comments: The VOC's are in another cooler w/ seal no. 555899.

Please batch together all groundwater samples collected from wells on Cannon Air Force Base during the week of June 14, 2004. Thanks.

CHAIN OF CUSTODY RECORD				LABORATORY LOG-IN OF SAMPLE SHIPPING CONTAINER	
Relinquished by (signed)	Received by (signed)	Date	Time	Analytical Laboratory	Seal Intact upon Receipt ☐ Yes ☐ No
	[signature]	6/17/04	0915	SEVERN TRENT SERVICES 4955 Yarrow Street Arvada, CO 80002 ph: (303) 736-0118 Attention: Susan Decker	Condition of Contents
					Contents Temperature
					Laboratory Project Number

U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION, NEW MEXICO DISTRICT
ANALYTICAL REQUEST/CHAIN OF CUSTODY

XPB 6/17/04

Project Name & Number: Cannon Air Force Base, Ground Water Sampling 8636-9JV01	PACKING AND SHIPPING DETAILS
	Packed and Sealed for Shipping by: J. Langman & L. Donohoe — Seal Number: 555869
Sampling Location: Landfill-5, Cannon Air Force Base, NM	Delivered to Shipper by: J. Langman & L. Donohoe — Airbill Number: 832435457816
Team Leader: Project chief -- Fred Gebhardt	Sampling Status: ☒ Done ☐ Continuing

Sample Date	Sample Time	Field Sample Number	Sample Type	No. of Containers	Analytical Methods (Parameters)	Remarks
06/16/04	0915	CAFB-D-MS	Ground-water	18	All Apx-IX: SW8260B, SW8270C, SW8280, SW8310, SW8081, SW8082, SW8151, Total-METALS: SW6010(Al,Ba,Be,Ca, Co, Cu, Fe, Mg, Mn, Mo, Ni, K, Na, Sn, V, Zn), SW6020-ICP-MS (Sb, Ag, Cd, As, Cr, Pb, Se, Tl), SW7470 (Hg), SW9012,SW9030, SW9060, SW9020, SW8321A, E353.2, E354.1, E300, E160.1	~~Environmental Sample~~ Matrix Spike

Additional Comments: The VOC's are in another cooler w/ seal no. 555899.

Please batch together all groundwater samples collected from wells on Cannon Air Force Base during the week of June 14, 2004. Thanks.

CHAIN OF CUSTODY RECORD				LABORATORY LOG-IN OF SAMPLE SHIPPING CONTAINER	
Relinquished by (signed)	Received by (signed)	Date	Time	Analytical Laboratory	Seal Intact upon Receipt ☐ Yes ☐ No
[signature]	to Fed Ex	6/16/04	1600	SEVERN TRENT SERVICES 4955 Yarrow Street Arvada, CO 80002 ph: (303) 736-0118 Attention: Susan Decker	Condition of Contents
	[signature]	6/17/04	0915		Contents Temperature
					Laboratory Project Number

U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION, NEW MEXICO DISTRICT
ANALYTICAL REQUEST CHAIN OF CUSTODY

XB 6/1

Project Name & Number	PACKING AND SHIPPING DETAILS	
Cannon Air Force Base, Ground Water Sampling 8636-9JV01	Packed and Sealed for Shipping by J. Langman & L. Donohoe	Seal Number 589381
Sampling Location Landfill-5, Cannon Air Force Base, NM	Delivered to Shipper by J. Langman & L. Donohoe	Airbill Number
Team Leader Project chief -- Fred Gebhardt	Sampling Status ☒ Done ☐ Continuing	

Sample Date	Sample Time	Field Sample Number	Sample Type	No. of Containers	Analytical Methods (Parameters)	Remarks
06/16/04	0940	CAFB-4	Ground-water	18	All Apx-IX: SW8260B, SW8270C, SW8280, SW8310, SW8081, SW8082, SW8151, Total-METALS: SW6010(Al,Ba,Be,Ca, Co, Cu, Fe, Mg, Mn, Mo, Ni, K, Na, Sn, V, Zn), SW6020-ICP-MS (Sb, Ag, Cd, As, Cr, Pb, Se, Tl), SW7470 (Hg), SW9012,SW9030, SW9060, SW9020, SW8321A, E353.2, E354.1, E300, E160.1	Environmental Sample

Additional Comments The VOC's are in another cooler w/ seal no. 555899

Please batch together all groundwater samples collected from wells on Cannon Air Force Base during the week of June 14, 2004. Thanks.

CHAIN OF CUSTODY RECORD				LABORATORY LOG-IN OF SAMPLE SHIPPING CONTAINER	
Relinquished by (signed)	Received by (signed)	Date	Time	Analytical Laboratory	Seal Intact upon Receipt ☐ Yes ☐ No
[signature]	to Fed Ex	6/16/04	1600	SEVERN TRENT SERVICES 4955 Yarrow Street Arvada, CO 80002 ph: (303) 736-0118 Attention: Susan Decker	Condition of Contents
	[signature]	6/17/04	0915		Contents Temperature
					Laboratory Project Number

U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION, NEW MEXICO DISTRICT
ANALYTICAL REQUEST/CHAIN OF CUSTODY

2.9° VB 6/17/04

Project Name & Number	PACKING AND SHIPPING DETAILS	
Cannon Air Force Base, Ground Water Sampling 8636-9JV01	Packed and Sealed for Shipping by: J. Langman & L. Donohoe	Seal Number: 589301
Sampling Location: Landfill-5, Cannon Air Force Base, NM	Delivered to Shipper by: J. Langman & L. Donohoe	Airbill Number: 832435457816
Team Leader: Project chief -- Fred Gebhardt	Sampling Status: ☒ Done ☐ Continuing	

Sample Date	Sample Time	Field Sample Number	Sample Type	No. of Containers	Analytical Methods (Parameters)	Remarks
06/16/04	1300	CAFB- E	Ground-water	18	All Apx-IX: SW8260B, SW8270C, SW8280, SW8310, SW8081, SW8082, SW8151, Total-METALS: SW6010(Al,Ba,Be,Ca, Co, Cu, Fe, Mg, Mn, Mo, Ni, K, Na, Sn, V, Zn), SW6020-ICP-MS (Sb, Ag, Cd, As, Cr, Pb, Se, Tl), SW7470 (Hg), SW9012,SW9030, SW9060, SW9020, SW8321A, E353.2, E354.1, E300, E160.1	Environmental Sample

Additional Comments: The VOC's are in another cooler w/ seal no. 555899.

Please batch together all groundwater samples collected from wells on Cannon Air Force Base during the week of June 14, 2004. Thanks.

CHAIN OF CUSTODY RECORD				LABORATORY LOG-IN OF SAMPLE SHIPPING CONTAINER	
Relinquished by (signed)	Received by (signed)	Date	Time	Analytical Laboratory	Seal Intact upon Receipt ☐ Yes ☐ No
[signature]	to Fed Ex	6/16/04	1600	SEVERN TRENT SERVICES 4955 Yarrow Street Arvada, CO 80002 ph: (303) 736-0118 Attention: Susan Decker	Condition of Contents
	[signature]	6/17/04	0915		Contents Temperature
					Laboratory Project Number

U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION, NEW MEXICO DISTRICT
ANALYTICAL REQUEST CHAIN OF CUSTODY

6/17/04

Project Name & Number	PACKING AND SHIPPING DETAILS	
Cannon Air Force Base, Ground Water Sampling 8636-9JV01	Packed and Sealed for Shipping by: J. Langman & L. Donohoe	Seal Number: 589321
Sampling Location: Landfill-5, Cannon Air Force Base, NM	Delivered to Shipper by: J. Langman & L. Donohoe	Airbill Number: 832435457816
Team Leader: Project chief -- Fred Gebhardt	Sampling Status: ☒ Done ☐ Continuing	

Sample Date	Sample Time	Field Sample Number	Sample Type	No. of Containers	Analytical Methods (Parameters)	Remarks
06/16/04	0830	CAFB-B	Ground-water	18	All Apx-IX: SW8260B, SW8270C, SW8280, SW8310, SW8081, SW8082, SW8151, Total-METALS: SW6010(Al,Ba,Be,Ca, Co, Cu, Fe, Mg, Mn, Mo, Ni, K, Na, Sn, V, Zn), SW6020-ICP-MS (Sb, Ag, Cd, As, Cr, Pb, Se, Tl), SW7470 (Hg), SW9012,SW9030, SW9060, SW9020, SW8321A, E353.2, E354.1, E300, E160.1	Environmental Sample

Additional Comments: The VOC's are in another cooler w/ seal no. 555899.

Please batch together all groundwater samples collected from wells on Cannon Air Force Base during the week of June 14, 2004. Thanks.

CHAIN OF CUSTODY RECORD				LABORATORY LOG-IN OF SAMPLE SHIPPING CONTAINER	
Relinquished by (signed)	Received by (signed)	Date	Time	Analytical Laboratory	Seal Intact upon Receipt ☐ Yes ☐ No
[signature]	to Fed Ex	6/16/04	1600	SEVERN TRENT SERVICES 4955 Yarrow Street Arvada, CO 80002 ph: (303) 736-0118 Attention: Susan Decker	Condition of Contents
	[signature]	6/17/04	0915		Contents Temperature
					Laboratory Project Number

U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION, NEW MEXICO DISTRICT
ANALYTICAL REQUEST/CHAIN OF CUSTODY

4.2° 6/17/04

Project Name & Number	PACKING AND SHIPPING DETAILS	
Cannon Air Force Base, Ground Water Sampling 8636-9JV01	Packed and Sealed for Shipping by J. Langman & L. Donohoe	Seal Number 555899
Sampling Location Landfill-5, Cannon Air Force Base, NM	Delivered to Shipper by J. Langman & L. Donohoe	Airbill Number 832435457816
Team Leader Project chief -- Fred Gebhardt	Sampling Status ☒ Done ☐ Continuing	

Sample Date	Sample Time	Field Sample Number	Sample Type	No. of Containers	Analytical Methods (Parameters)	Remarks
06/16/04	1150	CAFB-A	Ground-water	18	All Apx-IX: SW8260B, SW8270C, SW8280, SW8310, SW8081, SW8082, SW8151, Total-METALS: SW6010(Al,Ba,Be,Ca, Co, Cu, Fe, Mg, Mn, Mo, Ni, K, Na, Sn, V, Zn), SW6020-ICP-MS (Sb, Ag, Cd, As, Cr, Pb, Se, Tl), SW7470 (Hg), SW9012,SW9030, SW9060, SW9020, SW8321A, E353.2, E354.1, E300, E160.1	Environmental Sample

Additional Comments This cooler also contains VOC's for samples: CAFB-D, CAFB-D1, CAFB-D-MS, CAFB-D-MSD, CAFB-E, & CAFB-F. VOA's & perchlorate for samples: CAFB-B and CAFB-G.

Please batch together all groundwater samples collected from wells on Cannon Air Force Base during the week of June 14, 2004. Thanks.

CHAIN OF CUSTODY RECORD				LABORATORY LOG-IN OF SAMPLE SHIPPING CONTAINER	
Relinquished by (signed)	Received by (signed)	Date	Time	Analytical Laboratory	Seal Intact upon Receipt ☐ Yes ☐ No
[signature]	to Fed Ex	6/16/04	1600	SEVERN TRENT SERVICES 4955 Yarrow Street Arvada, CO 80002 ph: (303) 736-0118 Attention: Susan Decker	Condition of Contents
	[signature]	6/17/04	0915		Contents Temperature
					Laboratory Project Number

U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION, NEW MEXICO DISTRICT
ANALYTICAL REQUEST CHAIN OF CUSTODY

6/17

Project Name & Number	PACKING AND SHIPPING DETAILS	
Cannon Air Force Base, Ground Water Sampling 8636-9JV01	Packed and Sealed for Shipping by J. Langman & L. Donohoe	Seal Number 572065
Sampling Location Landfill-5, Cannon Air Force Base, NM	Delivered to Shipper by J. Langman & L. Donohoe	Airbill Number 832435457216
Team Leader Project chief -- Fred Gebhardt	Sampling Status ☒ Done ☐ Continuing	

Sample Date	Sample Time	Field Sample Number	Sample Type	No. of Containers	Analytical Methods (Parameters)	Remarks
06/16/04	0910	CAFB-D1	Ground-water	18	All Apx-IX: SW8260B, SW8270C, SW8280, SW8310, SW8081, SW8082, SW8151, Total-METALS: SW6010(Al,Ba,Be,Ca, Co, Cu, Fe, Mg, Mn, Mo, Ni, K, Na, Sn, V, Zn), SW6020-ICP-MS (Sb, Ag, Cd, As, Cr, Pb, Se, Tl), SW7470 (Hg), SW9012,SW9030, SW9060, SW9020, SW8321A, E353.2, E354.1, E300, E160.1	Environmental Sample

Additional Comments The VOC's are in another cooler w/ seal no. 555299.

Please batch together all groundwater samples collected from wells on Cannon Air Force Base during the week of June 14, 2004. Thanks.

CHAIN OF CUSTODY RECORD				LABORATORY LOG-IN OF SAMPLE SHIPPING CONTAINER	
Relinquished by (signed)	Received by (signed)	Date	Time	Analytical Laboratory	Seal Intact upon Receipt ☐ Yes ☐ No
[signature]	to FedEx	6/16/04	1600	SEVERN TRENT SERVICES 4955 Yarrow Street Arvada, CO 80002 ph: (303) 736-0118 Attention: Susan Decker	Condition of Contents
	[signature]	6/17/04	0915		Contents Temperature
					Laboratory Project Number

U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION, NEW MEXICO DISTRICT
ANALYTICAL REQUEST/CHAIN OF CUSTODY

7.8 VB
6/17/04

Project Name & Number: Cannon Air Force Base, Ground Water Sampling 8636-9JV01	PACKING AND SHIPPING DETAILS
	Packed and Sealed for Shipping by: J. Langman & L. Donohoe — Seal Number: 589311
Sampling Location: Landfill-5, Cannon Air Force Base, NM	Delivered to Shipper by: J. Langman & L. Donohoe — Airbill Number: 832435457816
Team Leader: Project chief -- Fred Gebhardt	Sampling Status: ☒ Done ☐ Continuing

Sample Date	Sample Time	Field Sample Number	Sample Type	No. of Containers	Analytical Methods (Parameters)	Remarks
06/16/04	1155	CAFB-F	Ground-water	18	All Apx-IX: SW8260B, SW8270C, SW8280, SW8310, SW8081, SW8082, SW8151, Total-METALS: SW6010(Al,Ba,Be,Ca, Co, Cu, Fe, Mg, Mn, Mo, Ni, K, Na, Sn, V, Zn), SW6020-ICP-MS (Sb, Ag, Cd, As, Cr, Pb, Se, Tl), SW7470 (Hg), SW9012,SW9030, SW9060, SW9020, SW8321A, E353.2, E354.1, E300, E160.1	Environmental Sample

Additional Comments: The VOC's are in another cooler w/ seal no. 555899.

Please batch together all groundwater samples collected from wells on Cannon Air Force Base during the week of June 14, 2004. Thanks.

CHAIN OF CUSTODY RECORD				LABORATORY LOG-IN OF SAMPLE SHIPPING CONTAINER	
Relinquished by (signed)	Received by (signed)	Date	Time	Analytical Laboratory	Seal Intact upon Receipt ☐ Yes ☐ No
[signature]	to Fed Ex	6/16/04	1600	SEVERN TRENT SERVICES 4955 Yarrow Street Arvada, CO 80002 ph: (303) 736-0118 Attention: Susan Decker	Condition of Contents
	[signature]	6/17/04	0915		Contents Temperature
					Laboratory Project Number

6-14-04 CAFB

DURING THE WEEK OF JUNE 14, 2004 THREE USGS CREWS WILL BE SAMPLING AT CANNON AFB.

SOIL SAMPLING - CREW A → FRED GEBHARDT, SARAH FALK, & PAT MILLS

WATER SAMPLING - CREW B → RALPH WILCOX & RK DEWEES

WATER SAMPLING - CREW C → JEFF LANGMAN & CAROLINE MYER

CANNON AFB

14 June 2004 (Monday)

1100 RWW arr @ well CAFB-V.
WL 332.23' b'w TOC w/
(Solinst serial no. 29455, 500')

Downloaded data from CR510 data logger. Pulled pressure transducer from well.

1140 Calibrated field meters:

pH (Orion 250A+, serial no. 014709)

initial 10.29, 7.16, & 4.10
adjusted 10.04, 7.00, & 4.01
slope 102.6
buffer temp. 22.5°C

conductivity (Orion 130A, serial no. 60584)

standard 745 µS/cm, lot 04021, expires after 10-04.

intial 7~~81~~44 µS/cm @ cc 0.477.

no adjustment.

std. temp. 24.0°C.

D.O. (YSI 95, serial no. 01G1194)

elev. 4,300'
salinity 1 ppt
6.80 mg/L (84.9% sat)
25.5°C in chamber on meter.

1240 RK De Wees arr @ site.

1243 Began purging CAFB-V
w/ trailer mounted Bennett
pump

CAFB-V

time	vol.	temp.	pH	cond.	D.O. mg/L
1247	5gal	24.2°C	7.35	1,135 µS/cm	4.94
1251	10	21.6	7.40	1,151	2.48
1255	15	21.1	7.43	1,175	2.09
1259	20	20.8	7.47	1,143	3.20
1303	30	20.8	7.47	1,181	4.74
1310	40	20.7	7.47	1,182	5.52
1326	50	20.9	7.47	1134	6.00
1334	60	20.5	7.47	1,162	6.29
1343	70	20.6	7.46	1,170	6.37
1351	80	20.9	7.46	1,178	6.59
1403	90	20.8	7.46	1,142	6.56
1412	100	20.7	7.46	1,142	6.61

1420 COLLECT ENVIRONMENTAL
SAMPLE CAFB-V

CVNA 24 ← Fed Ex pickup #

1500 Trip blank CAFB-V 1

JUNE 14, 2004

CANNON AFB - LANDFILL / LAGOON WQ SAMPLING

TEAM B: JEFF LANGMAN - SAMPLING/NOTE-TAKING
CAROLINE MYER - PURGING/SAMPLING

ARRIVE 1230 - GRAB KEY FROM RALPH WILCOX
CHECKED WITH FRED GEBHARDT AT 1245

1300 - ARRIVE AT WELL 5 (LANDFILL)

CALIBRATION:

1) pH: ORION 250A, SN 012941
2-PT AUTO CAL WITH 7.0 (LOT #036561-24, 12/05)
AND 10.0 (LOT#035956-24, 09/05) STDS
INITIAL = 7.00 ✓ ACCEPTED
INITIAL = 10.02 ✓ ACCEPTED SLP = 96.9

2) COND: ORION 130A, SN 1348654
1-PT MANUAL CAL WITH 760 uS/cm (LOT 04042, 11/04)
INITIAL = 749 ADJUSTED - 760 CELL = 0.984

3) DO: YSI 95, SN 99A0237
AUTO ~~MANUAL~~ CALIBRATION, ELEVATION - 4000', 1 PPT
SALINITY

6/14/04

CAFB

WELL 5 WL = 305.68' BELOW PUMP HANGER

TIME	GAL VOL	pH	°C TEMP	mS/cm COND	mg/L DO	* LEAKY AIR-IN LINE, N2/NA IN DISCHARGE
1330	1.0	7.35	19.5	827	6.95	
1335	5.0	7.29	19.5	850	8.48	
1345	10.0	7.36	19.4	846	8.66	
1350	15.0	7.44	19.4	847	8.80	
1355	20	7.49	19.4	848	8.80	
1400	25.0	7.53	19.3	843	8.93	
1405	30.0	7.57	19.3	842	8.94	
1410	35.0	7.59	19.4	840	8.99	
1415	40.0	7.59	19.4	840	8.95	
1420	45.0	7.59	19.4	840	8.92	

* AIR-IN LINE HAD N2 LEAK AT BOTTOM NUT ON PUMP HANGER

1425 COLLECTED EPA GW SAMPLE AT CAFB 5

SAMPLED 5 GALLONS BECAUSE LOW ON GAS

END OF DAY

06/14/04 Alkalinity
Meter Calibration

pH meter Orion 230A 50 ml
serial no. 009150

slope 99.4 on auto calibration with 4 & 7

WELL CAFB-V

pH	titrant Vol
7.57	Ø
7.00	100
6.43	300
5.52	630
4.96	700
4.79	710
4.68	715
4.57	720
4.37	730
4.28	735
4.17	742
4.07	749
4.00	755
3.97	760
3.85	775

pH	titrant Vol
3.64	810
3.44	860
3.29	920
3.21	960
3.11	1020
3.01	1100

ALK TITRANT

WELL CAFB-5 50 ml 0.16 N H_2SO_4

pH	TITRANT
7.89	Ø
7.23	75
6.93	170
6.52	300
6.06	500
5.23	700
4.76	730
4.52	750
4.43	755
4.32	760
4.23	765
4.16	770
4.01	780
3.96	785
3.88	795
3.77	810
3.64	835
3.52	860

15 June 2004 (Tuesday)

Field crew: Ralph Wilcox
RK DeWees

0715 Arr @ well CAFB-X
WL 271.95 ' blw TOC w/
Solinst 29455.

Calibrated same set of field meters
as used on 06-14:

pH – initial 9.90, 6.89, & 3.89
adjusted 9.99, 6.99, & 4.01
slope 102.7
buffer temp. 28.2 °C

conductivity – initial 743 µS/cm @ CC 0.477
adjusted 744 @ CC 0.478
std. temp. 27.4 °C

D.O. – elev. 4,300', salinity 1 ppt
6.81 mg/L (88.0% sat.)
26.3 °C in chamber on meter

0735 Cowered trailer mounted Bennett pump into CAFB-X. Deconned outside of pump tubing yesterday afternoon. Forgot to decon. inside this AM.

CAFB-X

time	vol.	temp.	pH	cond.	D.O.
0749	5 gal	20.4°C	7.70	5.43 µs/cm	7.96 mg/L
0753	10	19.4	7.69	510	7.69
0801	20	19.1	7.71	510	7.69
0807	30	19.1	7.71	510	7.69
0815	40	19.1	7.72	510	7.67
0823	50	19.2	7.72	510	7.72
0833	60	19.3	7.72	510	7.64
0840	70	19.3	7.72	510	7.67
0851	80	19.3	7.72	510	7.68
0900	90	19.4	7.73	510	7.71
0909	100	19.4	7.73	510	7.76

0915 COLLECT ENV. SAMPLE CAFB-X

0930 Collect duplicate sample CAFB-XX.

1000 Collect Bennett pump equipment blank sample CAFB-X-EB by pumping ~5 gal of NM Dist. D.I. water followed by ~5½ gal of Baker water (collecting blank) followed by ~6 gal of Dist. D.I.

Trip blank sample CAFB-X-TB has a time of 0900.

CAFB-W

time	vol.	temp.	pH	cond.	D.O.
1116	12 gal	20.9°C	7.91	992 µS/cm	3.41 mg/L
1123	20	20.6	7.94	1,154	3.09
Turbid water 100-200 NTU.					
1135	30	21.5	7.94	1,227	5.79
1143	40	20.3	7.91	1,209	5.20
1153	50	20.9	7.87	1,188	7.59
Water clear.					
1202	60	21.2	7.82	1,167	7.01
1212	70	21.5	7.78	1,146	6.82
1218	77	21.9	7.77	1,138	6.65

Out of N_2 gas @ 1218

1226 Resumed pumping

CAFB-W continued

time	vol.	temp.	pH	cond.	D.O.
1228	80	22.4	7.73	1,127	6.65
1237	90	20.9	7.73	1,115	6.08
1246	100	21.6	7.75	1,108	—

1300 collected sample CAFB-W.
WL @ CAFB-W prior to pumping 318.52' blw TOC.

6/15/04

TEAM B: JEFF LANGMAN - SAMPLING/NOTE-TAKING
CAROLINE MYER - PURGING/SAMPLING

CALIBRATION: SAME STDS AS 6/14/04
1) pH - ORION 250A, SN 012941
2-PT AUTO CAL WITH 7.0 & 10.0 STD
INITIAL = 7.0 ✓ ACCEPTED
INITIAL = 10.0 ✓ ACCEPTED SLOPE = 98.3

2) COND - ORION 130A, SN 1348654
1-PT MANUAL CALIBRATION AT 760 mS/cm
INITIAL = 762 ADJUSTED = 760 CELL = 760

3) DO - YSI 95, SN 99A0257
AUTO CAL AT 4000' AND 1 PPT SALINITY

~~[illegible]~~ WELL CAFB-F
WL = 297.86' BELOW PUMP HANGER
AIR-IN LINE BROKE BETWEEN SECURING NUT AND QUICK-CONNECT CONNECTION
- MOVED TO WELL CAFB-H TO START PURGING WHILE JEFF GETS BENNETT REPAIR KIT AND N2 FROM RK
SHOULD BE ENOUGH TUBE TO RE-ATTACH QUICK CONNECT, OTHERWISE WILL NEED TO ADD EXTENSION OR PULL PUMP AND SPLICE IN EXTENSION

6/15/04

WELL CAFB-H WL= 299.53' BELOW PUMP HANGER

TIME	GALS VOL	pH	°C TEMP	µS/cm COND	mg/L DO
8:44	Ø	7.93	17.8	770	8.42
8:50	5	7.54	18.1	767	7.20
8:57	10	7.57	18.1	776	7.07
9:04	15	7.60	18.1	776	7.05
910	20	7.61	18.2	782	7.28
915	25	7.62	18.2	784	7.32
920	30	7.65	18.3	787	7.37
925	35	7.65	18.3	787	7.38
930	40	7.65	18.3	786	7.43
935	45	7.65	18.3	786	7.43
940	50	7.65	18.4	784	7.45

* Air in line is leaking

0945 COLLECTED ENV. GW SAMPLE AT WELL CAFB-H.

6/15/09

WELL CAFB-G WLS 299.96' BELOW PUMP

TIME	GALS VOL	pH	°C TEMP	µS/cm COND	mg/L DO
10:25	Ø	7.30	18.0	861	7.45
1030	5	7.30	17.9	868	6.06
1035	10	7.32	18.1	868	5.98
1040	15	7.32	18.2	868	5.91
1045	20	7.32	18.4	868	6.02
1050	25	7.32	18.4	868	5.93
1055	30	7.33	18.5	866	5.89
1100	35	7.31	18.3	869	5.85
1105	40	7.35	18.1	867	5.73
1110	45	7.35	18.3	868	5.71
1115	50	7.36	18.3	867	5.70

1120 COLLECTED ENV. SAMPLE AT CAFB-G

PUMP NEEDS TO BE LOWERED. WOULD PUMP DRY, RECHARGE, THEN PUMP AGAIN

6/15/04

WELL CAFB-T WL= 304.28' BELOW PUMP HANGER

TIME	GALS VOL	pH	°C TEMP	µS/cm COND	mg/L DO
1155	<1	7.56	19.8	781	6.40

PULLED OFF NIPPLE ATTACHMENT, TEFLON TAPE ON BOTH ENDS, TIGHTENED DOWN AND REATTACHED TO TRY AND STOP BAD LEAK ON AIR-IN LINE

1215	5	7.61	19.3	780	6.90
1220	10	7.59	18.7	784	7.64
1224	15	7.62	18.7	784	7.28
1229	20	7.63	18.7	783	7.03
1234	25	7.61	18.6	782	6.91
1240	30	7.60	18.7	781	6.79
1246	35	7.65	18.7	781	6.65
1250	40	7.66	18.7	781	6.59
1253	45	7.64	18.7	781	6.53
1255	50	7.66	18.7	782	6.44

1300 collect emw gw sample at CAFB-T

6/15/04

WELL CAFB-C WL=310.41' Below Pump Hanger

TIME	GALS VOL	pH	°C TEMP	µS/cm COND	mg/L DO
1334	0	8.11	20.0	582	7.92
1341	5	7.64	19.2	584	2.81
1345	10	7.59	18.8	584	2.65
1350	15	7.61	19.1	584	2.55
1355	20	7.64	18.9	585	2.76
1400	25	7.66	18.9	585	2.76
1405	30	7.66	18.9	586	2.66
1410	35	7.68	18.8	586	3.16
1415	40	7.69	18.9	585	3.37
1420	45	7.69	18.9	586	3.41
1425	50	7.67	19.0	585	3.01

1430 COLLECTED ENV GW SAMPLE AT CAFB-C

AG PUMP RUNNING ACROSS ROAD

CAFB-C WELL PUMPED DRY AT 45 GALS

6-15-04 1710

CAFB-X

sample - 50 ml, unfiltered

RWW analyst

0.16 N titrant

pH	HACH counts
7.21	0
7.13	100
6.80	200
6.58	300
6.36	400
6.19	500
5.99	600
5.72	700
5.46	770
5.40	780
5.35	790
5.28	800
5.22	810
5.15	820
5.06	830
4.95	840
4.87	845
4.80	850
4.69	855
4.59	860
4.50	865
4.40	870
4.28	876
4.22	880
4.13	885
4.07	890
4.01	895
4.00	900

6-15-04 1730

CAFB-W
sample 50 ml, unfiltered
RWW analyst
0.16 N titrant

pH	HACH counts
~~7.68~~	~~0~~
~~5.88~~	~~400~~
~~5.51~~	~~500~~
~~4.38~~	~~600~~
7.66	0
5.51	500
5.41	520
5.29	540
5.20	550
5.11	560
5.04	565
4.97	570
4.89	575
4.80	580
4.71	585
4.61	590
4.50	595
4.40	600
4.30	605
4.23	610
4.17	615
4.11	620
4.05	625
4.00	630
3.94	635

CAFB WELL C 6-15-04 1740

SAMPLE 50 ML, UNFILTERED

RKD

0.16 N

PH	HACH CTR.
7.72	Ø
6.95	180
6.31	240
6.59	360
6.04	700
5.91	760
4.94	1000
4.74	1015
4.65	1020
4.57	1025
4.53	1027
4.49	1029
4.27	1040

CAFB WELL T 6-15-04 1805
SAMPLE 50 ML, UNFILTERED
RKD
0.16 N

PH	HACH CTR
7.69	Ø
6.54	300
6.32	400
6.12	500
6.02	550
5.73	650
5.50	700
5.15	750
4.87	770
4.67	780
4.57	785
4.50	787
4.46	789
4.32	795
4.27	800
4.20	805

CAFB WELL G 6-15-04 1825
SAMPLE 50ML / UNFILTERED
RKD
0.16N

pH	HACH CTR
7.81	Ø
6.76	250
6.57	350
6.41	450
6.24	550
6.06	650
5.92	720
5.54	850
5.30	900
4.80	950
4.61	960
4.52	965
4.48	967
4.42	970
4.23	980

CATB Well H 6/15/04 1845
Sample 50 mL/ unfiltered
SEF
0.6N

pH	Hach Ctr
7.73	Ø
7.14	101
6.95	165
6.83	210
6.64	301
6.50	376
6.37	460
6.19	550
6.10	601
6.00	650
5.94	675
5.85	711
5.72	755
5.50	805
5.23	850
5.07	865
4.94	875
4.86	880
4.78	885
4.66	891
4.57	895
4.46	900

cont

pH	Hach
4.36	905
4.28	910
4.20	916
4.14	920
4.08	925
4.03	930
3.98	935
3.53	1010
3.26	1112
3.08	1225
2.99	1301

16 June 2004 (Wednesday)

Field crew: Ralph Wilcox
RK DeWees

CAFB-B
0710, WL 304.43' blw pump hanger w/ steel tape.

0722 Calibrated field meters (same set used on 6-14 and 6-15):

pH - initial 10.27, 7.14, & 4.08
adjusted 10.03, 7.00, & 4.01
slope 102.7
buffer temp. 23.5 °C

conductivity -
initial 749 µs/cm @ CC 0.478
adjusted 745 µs/cm @ CC 0.476
std. temp. 23.8 °C

D.O. elev 4300, salinity 1 ppt
7.18 mg/L (84.8% sat.)
23.4°C in chamber

CAFB-B Dedicated Bennett pump

time	vol.	temp.	pH	cond.	D.O.
0744	5 gal	18.6°C	7.40	757 µS/cm	6.28 mg/L
0748	10	18.6	7.45	757	6.36
0754	15	18.6	7.48	757	6.54
0759	20	18.7	7.51	758	7.18
0804	25	18.7	7.52	759	7.78
0809	30	18.7	7.52	747	7.67
0814	35	18.7	7.54	761	7.76
0819	40	18.7	7.55	761	7.78

0830 Collected sample CAFB-B.
Trip blank sample CAFB-B-EB
@ 0800.

0851 WL CAFB-U 303.43' blw PVC pump hanger w/ Solinst (29455)

CAFB-U Dedicated Bennett pump

time	vol.	temp.	pH	cond.	D.O.
0857	5gal	18.5°c	7.68	769 µS/cm	7.09 mg/L
0902	10	18.5	7.67	769	7.34
0907	15	18.5	7.62	766	7.69
0912	20	18.5	~~7.66~~ 7.59	766	7.71
0917	25	18.5	7.58	766	7.76
0922	30	18.5	7.58	766	7.88
0926	35	18.5	7.58	767	7.67
0931	40	18.5	7.58	767	7.80

0940 COLLECT ENVIRONMENTAL SAMPLE

1104 WL CAFB-A 294.79' blw PVC pump hanger.

CAFB-A Dedicated Bennett pump

time	vol.	temp.	pH	cond.	D.O.
1115	5 gal	18.8°C	7.58	641 µS/cm	8.31 mg/L
1120	10	18.8	7.59	651	8.17
1124	15	18.8	7.60	654	8.04
1129	20	18.7	7.61	650	7.92
1132	25	18.8	7.61	654	7.85
1137	30	18.7	7.61	649	7.79
1141	35	18.7	7.61	654	7.74
1146	40	18.8	7.62	655	7.35

1150 COLLECT ENVIRONMENTAL SAMPLE

6/16/04

TEAM B: JEFF LANGMAN - SAMPLING/NOTE-TAKING
CAROLINE MYER - PURGING/SAMPLING

CALIBRATION: SAME STDS AS 6/14/04

1) pH - ORION 250A, SN 012941
2-PT AUTO CAL WITH 7.0 & 10.0 pH STDS
INITIAL: 7.01 ✓ ACCEPTED
INITIAL: 10.04 ✓ ACCEPTED SLP = 98.7

2) COND - ORION 130A, SN 1348654
1-PT MANUAL CAL WITH 760 µS/cm STD
INITIAL: 763 ADJUSTED: 760 CELL: 0.480

3) DO - YSI 95, SN 99A0237
AUTO CAL AT 4000' AND 1 ATM

0730 ARRIVE AT CAFB-D

6/16/04

WELL CAFB-D WL= 303.27' BELOW PUMP HANGER

TIME	GALS VOL	pH	°C TEMP	µS/cm COND	mg/L DO
0810	<1	7.91	17.7	588	7.01
0815	5	7.60	18.0	584	5.82
0820	10	7.55	18.2	585	5.82
0825	15	7.48	18.3	586	5.92
0830	20	7.50	18.3	588	5.94
0835	25	7.51	18.2	587	5.81
0840	30	7.53	18.3	592	5.76
0845	35	7.51	18.3	597	5.53
0850	40	7.55	18.3	600	5.38
0855	45	7.56	18.3	602	5.30
0900	50	7.54	18.3	603	5.24

0905 COLLECTED ENV. GW SAMPLE AT CAFB-D
0910 " DUPLICATE GW SAMPLE: CAFB-D-1
0915 " MATRIX SPIKE SAMPLE: CAFB-D-MS
0920 " MATRIX SPIKE DUPLICATE SAMPLE: CAFB-D-MSD

6/16/04

WELL CAFB-F WL=297.86' BELOW PUMP HANGER

TIME	GALS VOL	pH	°C TEMP	mS/cm COND	mg/L DO
1105	<1	7.53	18.4	867	6.86
1110	5	7.38	17.8	891	6.14
1115	10	6.99	17.9	892	6.18
1120	15	7.05	18.0	893	6.07
1125	20	6.85	18.0	893	6.03
1130	25	7.43	18.0	893	5.98
1135	30	7.52	18.1	893	5.96
1140	35	7.62	18.1	892	5.92
1143	40	7.64	18.1	892	5.90
1147	45	7.63	18.2	892	5.86
1150	50	7.63	18.1	892	5.85

1155 COLLECTED ENV. GW SAMPLE AT CAFB-F

6/16/04

WELL CAFB-E WL= 300.57' BELOW PUMP HANGER

QUICK-CONNECT AND DISCHARGE FITTING MISSING
CONTRACTOR REMOVED? REPLACED

TIME	GALS VOL	pH	°C TEMP	µS/cm COND	mg/L DO
12:31	<1	7.37	19.3	1005	6.33 ☆ Air going into chamber
12:35	5	7.56	18.9	993	5.92
1240	10	7.57	18.7	993	5.89
1245	15	7.59	18.7	994	5.86
1250	20	7.59	18.7	994	5.86
1255	25	7.60	18.7	993	5.85

1300 COLLECTED ENV. GW SAMPLE AT CAFB-E
COLLECTED EARLY BECAUSE OUT OF GAS (N^2)

NEW QUICK CONNECT WAS TOO TALL FOR CAP
SO REMOVED, PUT IN PLASTIC BAG, AND PLACED
INSIDE WELL CAP.

END OF DAY
END OF SAMPLING

CAFB Well A 6-16-04 1450

Sample 50mL, unfiltered

CAM

0.16N

pH	Hach Ctr
7.87	Ø
7.31	70
7.04	140
6.87	200
6.54	350
6.31	470
6.03	600
5.52	740
5.02	800
4.74	820
4.34	835
4.11	850
4.00	860
3.92	870
3.79	890
3.54	940
3.42	980
3.24	1060
3.02	1220

CAFB-U 6/16/04 1525
50ml 0.1600 N H_2SO_4
92

pH	Hach Cu
7.67	Ø
7.01	100
6.69	200
6.45	300
6.23	400
6.02	500
5.77	600
5.38	700
5.00	750
4.67	775
4.57	780
4.47	785
4.37	790
4.17	800
3.84	825
3.66	850
3.42	900
3.15	1000

CAFB-B 6-16-04 1550

Sample 50 mL, Unfiltered

CAM

0.16N

pH	Hach Ctr.
7.71	Ø
7.04	100
6.73	200
6.53	290
6.04	430
5.76	550
5.39	650
4.98	700
4.76	720
4.60	730
4.43	740
4.25	750
4.09	760
3.96	770
3.81	785
3.62	810
3.40	860
3.22	920
3.04	1010

CAFB WELL F 6-16-04 1610
SAMPLE 50 mL / UNFILTERED
RKD
0.16N

pH	COUNTER
7.62	Ø
6.56	250
6.24	400
6.05	500
5.80	600
5.18	750
5.00	770
4.70	790
4.48	800
4.28	810
4.05	825
3.93	835

WELL CAFB-E 6/16/04 1630
50 ml UNFILTERED 0.16N

pH	Hach Cu
7.63	Ø
7.03	100
6.72	200
6.50	300
6.32	400
6.13	500
5.92	600
5.67	700
5.23	800
4.74	850
4.66	855
4.55	860
4.46	865
4.36	870
4.10	885
3.92	900
3.55	950
3.35	1000
3.11	1100

WELL CAFB-D 6/16/04 1445
50 ml UNFILTERED 0.16 N H_2SO_4

pH	HACH CTR
7.54	0
7.14	100
6.90	200
6.72	300
6.57	400
6.44	500
6.32	600
6.22	700
6.09	800
5.96	900
5.81	1000
5.62	1100
5.34	1200
4.95	1275
4.87	1285
4.74	1300
4.63	1310
4.57	1315
4.50	1320
4.42	1325
4.26	1335
4.03	1350
3.76	1375
3.49	1425
3.24	1500