



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



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FEB 21 2008

Mr. James Bearzi
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New Mexico Environment Department
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FEB 25 2008

Dear Mr. Bearzi

Enclosed for your review and records are the final CY 2007 groundwater monitoring and sampling reports for: the annual report for Monitoring Wells A, B, C, D, S, T and U at Landfill (LF) -5, Solid Waste Management Unit (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 (CAFB) taken 23-26 Jul 07. New Mexico Environmental Department (NMED) groundwater standards were used to determine if constituents detected in the monitoring wells exceeded applicable groundwater standards. If the NMED standard for a particular constituent was not available, the United States Environmental Protection Agency (USEPA) groundwater maximum contaminant levels (MCLs), secondary maximum contaminant levels (SMCL's) or USEPA health advisories were applied. In cases where NMED and the USEPA have established separate and different standards for the same constituent, the most stringent standard was applied for purposes of comparison.

The following paragraph is an excerpt from the reports executive summary:

“Concentrations of analytes detected in ground water samples from wells on CAFB are presented in Table 1, 2, 3, and 4 of the attached report. Only concentrations detected above the reporting limits are discussed in this summary and the concentrations are compared with applicable USEPA drinking-water regulations. Arsenic, barium, selenium, sulfate, and vanadium may occur naturally at relatively high reporting limits.

Arsenic was detected in water samples from CAFB-A, B, S, T, and U at concentrations of 5.6 micrograms per Liter ($\mu\text{g/L}$), 5.0 $\mu\text{g/L}$, 5.5 $\mu\text{g/L}$, 5.5 $\mu\text{g/L}$ and 4.8 $\mu\text{g/L}$, respectively. The USEPA enforceable MCL for arsenic is 10.0 $\mu\text{g/L}$.

Barium was detected in water samples from all eleven wells at concentrations ranging from 30 $\mu\text{g/L}$, (CAFB-H) to 94.0 $\mu\text{g/L}$ (CAFB-D). The USEPA enforceable MCL for barium is 2,000 $\mu\text{g/L}$.

Boron was detected in water samples from all eleven wells at concentrations ranging from 170 µg/L (CAFB-A) to 230 µg/L (CAFB-C). There is no National Primary or Secondary Drinking Water Regulation enforceable MCL or recommended SMCL for boron.

Chloride was detected in water samples from all eleven wells at concentrations ranging from 9.0 milligrams/Liter (mg/L) (CAFB-D) to 150 mg/L (CAFB-F). The USEPA recommended SMCL for chloride is 250 mg/L.

Chromium was detected in water samples from all eleven wells at concentrations ranging from 0.75 µg/L (CAFB-D) to 3.7 µg/L (CAFB-T). The USEPA enforceable MCL for chromium is 100 µg/L.

Fluoride was detected in water samples from all eleven wells at concentrations ranging from 1.8 mg/L (CAFB-G) to 2.9 mg/L (CAFB-A). The USEPA enforceable MCL for fluoride is 4.0 mg/L and the USEPA recommended SMCL for fluoride is 2.0 mg/L.

Iron was detected in water samples from CAFB-T and CAFB-U at concentrations of 140.0 µg/L and 120 µg/L, respectively. The USEPA recommended SMCL for iron is 300 µg/L.

Lead was detected in water samples from CAFB-E at a concentration of 7.2 µg/L. The USEPA SMCL goal standard for lead is zero.

Nitrate was detected in water samples from all eleven wells at concentrations ranging from 0.91 µg/L (CAFB-T) to 2.4 µg/L (CAFB-E). The USEPA enforceable MCL for nitrate is 10,000 µg/L.

Perchlorate was detected in water samples from all eleven wells at concentrations ranging from 0.22 µg/L (CAFB-D) to 2.8 µg/L (CAFB-H). There is no Primary or Secondary Drinking-Water Regulation MCL or SMCL for perchlorate. Perchlorate appears on USEPA Drinking Water Contaminant Candidate List, 02 Mar 98, and the USEPA Drinking Water Contaminant Candidate List 2, 02 Apr 04.

Selenium was detected in water samples from CAFB-B, F, H, S, T, and U, at concentrations 6.2 µg/L, 6.3 µg/L, 8.6 µg/L, 7.0 µg/L, 6.5 µg/L, and 6.9 µg/L, respectively. The USEPA enforceable MCL for selenium is 50.0 µg/L.

Sulfate was detected in water samples from all eleven wells at concentrations ranging from 30 µg/L (CAFB-D) to 140 µg/L (CAFB-H). The USEPA recommended SMCL for sulfate is 250 µg/L.

Total Dissolved Solids were detected in water samples from all eleven wells at concentrations ranging from 360 mg/L (CAFB-A and D) to 700 mg/L (CAFB-F). The USEPA recommended SMCL for total dissolved solids is 500 mg/L.

Vanadium was detected in water samples from all eleven wells. Concentrations ranged from 17 µg/L (CAFB-F and G) to 38 µg/L (CAFB-C). There is no National Primary or Secondary Drinking Water Regulation enforceable MCL or recommended SMCL for vanadium.

Zinc was detected in water samples from well CAFB-H at concentration of 24 $\mu\text{g/L}$. The USEPA recommended SMCL for zinc is 5,000 $\mu\text{g/L}$.

The results of the CY 2007 long term monitoring sampling events provide no indication that any release from LF-5 nor the Sewage Lagoons has impacted groundwater. If you have any questions, please contact Mr. Jerry Pelfrey at (575) 784-6391.

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



MICHAEL A. POSTON

Attachment:

RCRA Ground-Water Monitoring for Sewage Lagoons, LF-5 & Perimeter Wells at CAFB, 23-26 Jul 07

cc:

NMED (D. Cobrain)

NMED (C. Frischkorn)

EPA Region VI w/o enclosure (D. Neleigh)

EPA Region VI (B. Sturdivant)

LIBRARY COPY

Cannon Air Force Base, New Mexico

**RCRA Ground-Water Monitoring at Sewage Lagoons,
Landfill 5, and non-RCRA sites**

**Analytical Results of Samples Collected
July 23, 24, 25 and 26, 2007**

Prepared for

**United States Air Force Air Combat Command
Cannon Air Force Base**

November 2007

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Executive Summary

The U.S. Geological Survey (USGS), Water Resources Division, and the U.S. Air Force Combat Command (ACC) have a memorandum of understanding for USGS assistance at any ACC base concerning earth-science, hydrology, or environmental programs. Accordingly, the USGS provides assistance to Cannon Air Force Base (Cannon AFB), an ACC base, in its Resource Conservation and Recovery Act (RCRA) ground-water sampling program. For the July 13, 1990, Compliance Agreement between Cannon AFB and the New Mexico Environment Department (NMED), required ground-water monitoring has been performed by the USGS.

The monitoring network includes wells around Landfill 5 near the southeastern corner of the base, wells around the decommissioned sewage lagoons on the east side of the base, wells adjacent to the playa lake, and wells around the base perimeter (figure 2). Monitoring wells at Landfill 5 are upgradient well A and downgradient wells B, C, D, S, T, and U. The monitoring wells at the sewage lagoons are upgradient well E and downgradient wells F, G, and H. The perimeter monitoring wells include wells V, W, and X, and the Playa Lake monitoring wells include Na, Oa, and Pa.

This report presents water-quality data for samples collected July 23 – 26, 2007. Ground-water samples were collected from 17 monitoring wells; A, B, C, D, S, T, and U near Landfill 5; wells E, F, G, and H near the decommissioned sewage lagoons; wells V, W, and X around the perimeter; and wells Na, Oa, and Pa near the Playa Lake.

Ground-water samples from wells A, B, C, D, S, T, and U were analyzed for volatile organic compounds (method SW8260B); semivolatile organic compounds (method SW8270C); pesticides (method SW8081A); PCBs (method SW8082); herbicides (method SW8151A); dioxins and furans (method SW8280A); perchlorate (SW6860); polynuclear aromatic hydrocarbons (method SW8310); total metals (aluminum, barium, beryllium, boron, calcium, cobalt, copper, iron, potassium, magnesium, manganese, molybdenum, sodium, nickel, silica, strontium, tin, vanadium, and zinc by SW6010B; antimony, arsenic, cadmium, chromium, lead, selenium, silver, and thallium by SW6020; and mercury by SW7470A); and general chemistry [anions including bromide, chloride, fluoride, nitrate, orthophosphate, and sulfate (method MCAWW300.0A); nitrate-nitrite (method MCAWW353.2); total alkalinity (method MCAWW310.1); total cyanide (method MCAWW335.4); total dissolved solids (method MCAWW160.1); total organic carbon (method SW9060); and total organic halogens (method SW9020B)].

Ground-water samples from wells E, F, G, and H were analyzed for volatile organic compounds (method SW8260B); pesticides (method SW8081A); PCBs (method SW8082); perchlorate (SW6860); total metals (aluminum, barium, beryllium, boron, calcium, cobalt, copper, iron, potassium, magnesium, manganese, molybdenum, sodium, nickel, silica, strontium, tin, vanadium, and zinc by SW6010B; antimony, arsenic, cadmium, chromium, lead, selenium, silver, and thallium by SW6020; and mercury by SW7470A); and general chemistry [anions

including bromide, chloride, fluoride, nitrate, orthophosphate, and sulfate (method MCAWW300.0A); nitrate-nitrite (method MCAWW353.2); total alkalinity (method MCAWW310.1); total dissolved solids (method MCAWW160.1); total organic carbon (method SW9060); and total sulfide (method SW9030B/9034)].

Ground-water samples from wells V, W, and X were analyzed for perchlorate (SW6860); total metals (aluminum, barium, beryllium, boron, calcium, cobalt, copper, iron, potassium, magnesium, manganese, molybdenum, sodium, nickel, silica, strontium, tin, vanadium, and zinc by SW6010B; antimony, arsenic, cadmium, chromium, lead, selenium, silver, and thallium by SW6020; and mercury by SW7470A); and general chemistry [anions including bromide, chloride, fluoride, nitrate, orthophosphate, and sulfate (method MCAWW300.0A); nitrate-nitrite (method MCAWW353.2); total alkalinity (method MCAWW310.1); and total dissolved solids (method MCAWW160.1)].

Ground-water samples from wells Na, Oa, and Pa were analyzed for perchlorate (SW6860); total metals (aluminum, barium, beryllium, boron, calcium, cobalt, copper, iron, potassium, magnesium, manganese, molybdenum, sodium, nickel, silica, strontium, tin, vanadium, and zinc by SW6010B; antimony, arsenic, cadmium, chromium, lead, selenium, silver, and thallium by SW6020; and mercury by SW7470A); and general chemistry [anions including bromide, chloride, fluoride, nitrate, orthophosphate, and sulfate (method MCAWW300.0A); nitrate-nitrite (method MCAWW353.2); total alkalinity (method MCAWW310.1); and total dissolved solids (method MCAWW160.1) ; and total kjeldahl nitrogen (method MCAWW351.2)].

Test America in Arvada, Colorado, conducted all laboratory analyses. Concentrations of the analytes detected are presented in tables 1, 2, 3, and 4. The hard copy of these reports has been modified to exclude laboratory information, including analytical results and quality assurance / quality control results. This information is now included only in the CD digital report.

Current altitudes of ground water, measured in all seventeen wells, are shown in figure 2 and historical altitudes of ground water are shown in figure 3.

The U.S. Environmental Protection Agency (USEPA) has established National Primary Drinking Water Regulations – legally enforceable standards, 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; which 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. The USEPA recommends secondary maximum contaminant levels (SMCL's) for public water systems but does not require compliance to these standards. New Mexico has not adopted SMCL's as enforceable standards. These contaminants are not considered to present a risk to human health at the recommended SMCL.

Significant analytical results from the July 2007 sampling round are listed below:

Aluminum was detected in the water sample from well Oa at a concentration of 120 µg/L. The USEPA recommended SMCL for aluminum is 50 to 200 µg/L.

Arsenic was detected in water samples from wells A, B, S, T and X at concentrations of 5.6 µg/L, 5.0 µg/L, 5.5 µg/L, 5.5 µg/L, and 6.8 µg/L, respectively. The USEPA enforceable MCL for arsenic is 10.0 µg/L.

Barium was detected in water samples from all seventeen wells, ranging in concentrations from 16 µg/L, (well W) to 94 µg/L (well D). The USEPA enforceable MCL for barium is 2,000 µg/L.

Boron was detected in water samples from all seventeens wells. Concentrations ranged from 140 µg/L (well Pa) to 930 µg/L (well W). There is no National Primary or Secondary Drinking Water Regulation enforceable MCL or recommended SMCL for boron.

Chloride was detected in water samples from all seventeen wells at concentrations ranging from 9.0 mg/L (well C) to 230 mg/L (well V). The USEPA recommended SMCL for chloride is 250 mg/L.

Chromium was detected in water samples from wells E, F, G, H, Na, T, and X at concentrations of 3.3, 3.3, 3.3, 2.2, 2.9, 3.7, and 2.9 µg/L, respectively. The USEPA enforceable MCL for chromium is 100 µg/L.

Fluoride was detected in water samples from all wells except well W at concentrations ranging from 1.0 mg/L (well Oa) to 2.9 mg/L (well A). The USEPA enforceable MCL for fluoride is 4.0 mg/L and the USEPA recommended SMCL for fluoride is 2.0 mg/L.

Iron was detected in water samples from wells T, U, and X, at concentrations of 140 µg/L, 120 µg/L, and 160 µg/L. The USEPA recommended SMCL for iron is 300 µg/L.

Lead was detected in the water sample from well E at a concentration of ~~7.2~~ µg/L. The USEPA maximum contaminant level goal (SMCLG) standard for lead is zero.

Nitrate was detected in water samples from all seventeen wells at concentrations ranging from 0.90 µg/L (well W) to 7.3 mg/L (well Oa). The USEPA enforceable MCL for nitrate is 10 mg/L.

Perchlorate was detected in water samples from all seventeen wells at concentrations ranging from 0.14 µg/L (well W) to 9.0 µg/L (well V). There is no Primary or Secondary Drinking-Water Regulation MCL or SMCL for perchlorate. Perchlorate, however, appears 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 B, F, H, Na, Pa, S, T, U, and V, at concentrations 6.2 µg/L, 6.3 µg/L, 8.6 µg/L, 5.4 µg/L, 7.1 µg/L, 7.0 µg/L, 6.5 µg/L, 6.9 µg/L, and 13 µg/L. The USEPA enforceable MCL for selenium is 50.0 µg/L.

Sulfate was detected in water samples from all seventeen wells at concentrations ranging from 30 mg/L (well D) to ~~350~~ mg/L (well W). The USEPA recommended SMCL for sulfate is ~~250~~ mg/L.

Strontium was detected in water samples from all seventeen wells. Concentrations ranged from 910 µg/L (well X) to 2,600 µg/L (well V). There is no National Primary or Secondary Drinking Water Regulation enforceable MCL or recommended SMCL for vanadium.

Total Dissolved Solids were detected in water samples from all seventeen wells at concentrations ranging from 310 mg/L (well X) to ~~1000~~ mg/L (well Oa). The USEPA recommended SMCL for total dissolved solids is ~~500~~ mg/L.

Vanadium was detected in water samples from all seventeen wells except well W. Concentrations ranged from 15 µg/L (well Oa) to 50 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 the water sample from well H, at a concentration of 24 µg/L. The USEPA recommended SMCL for zinc is 5,000 µg/L.

As part of the quality assurance and quality control (QA/QC) procedures for wells sampled at Cannon AFB, five trip blanks, two field duplicate sample, one equipment blank, and one pair of matrix spike and matrix spike duplicate sample were collected. All the sample cooler temperatures upon receipt by the laboratory were under the EPA's recommendation of 6.0 degrees Celsius.

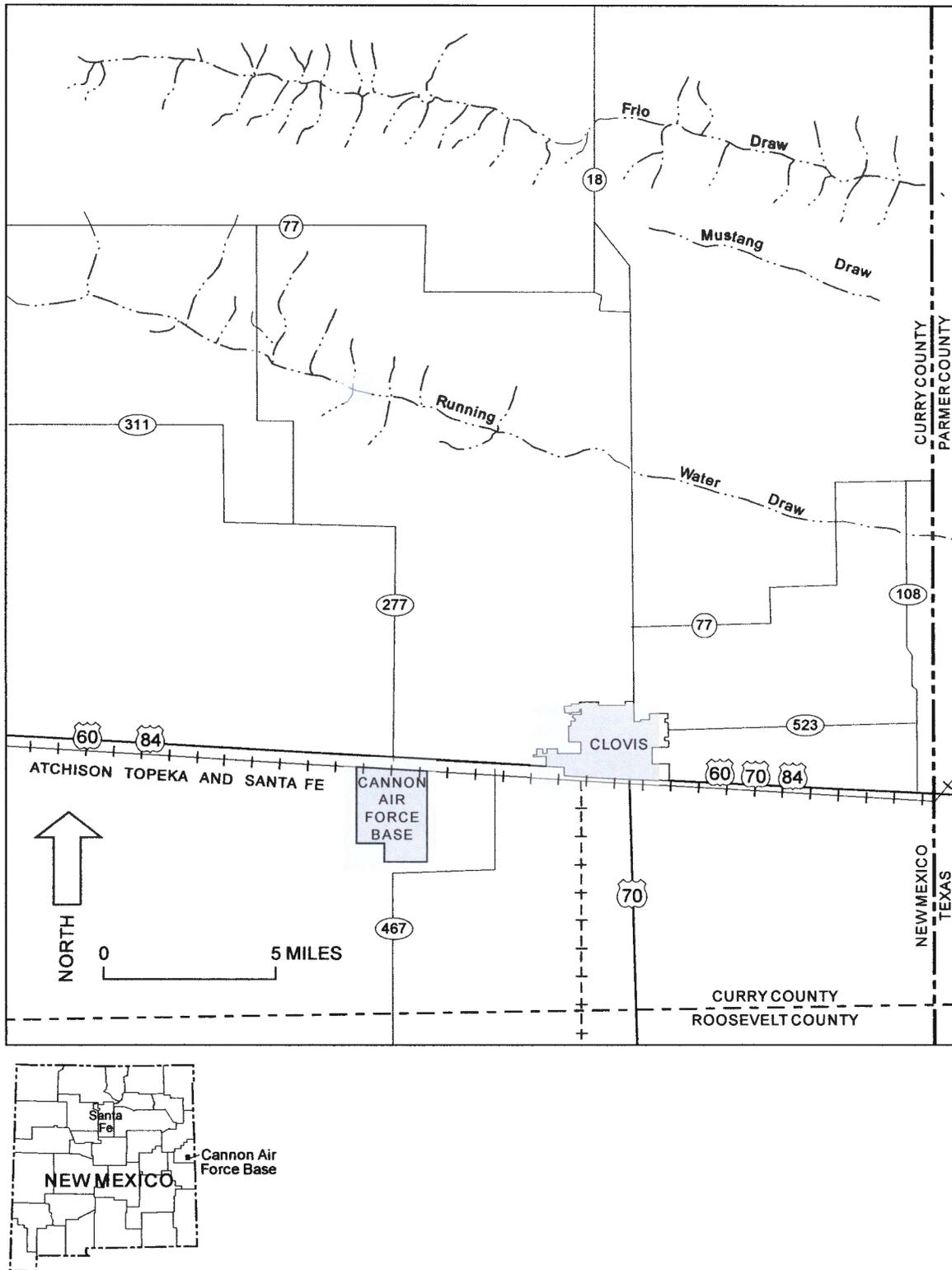


Figure 1. Location of Cannon Air Force Base, New Mexico

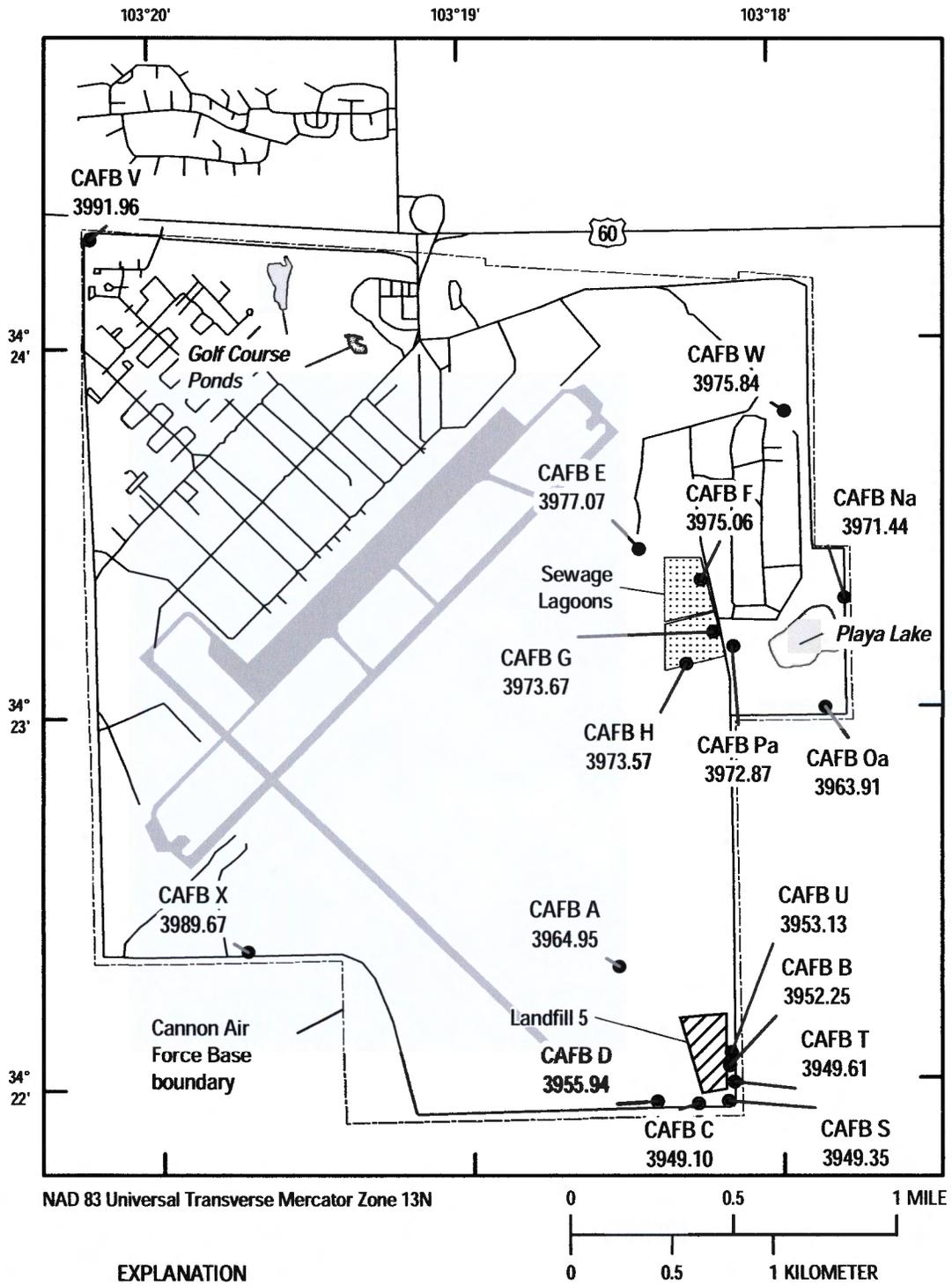


Figure 2. Monitoring well network and ground-water at Cannon Air Force Base, July 2007

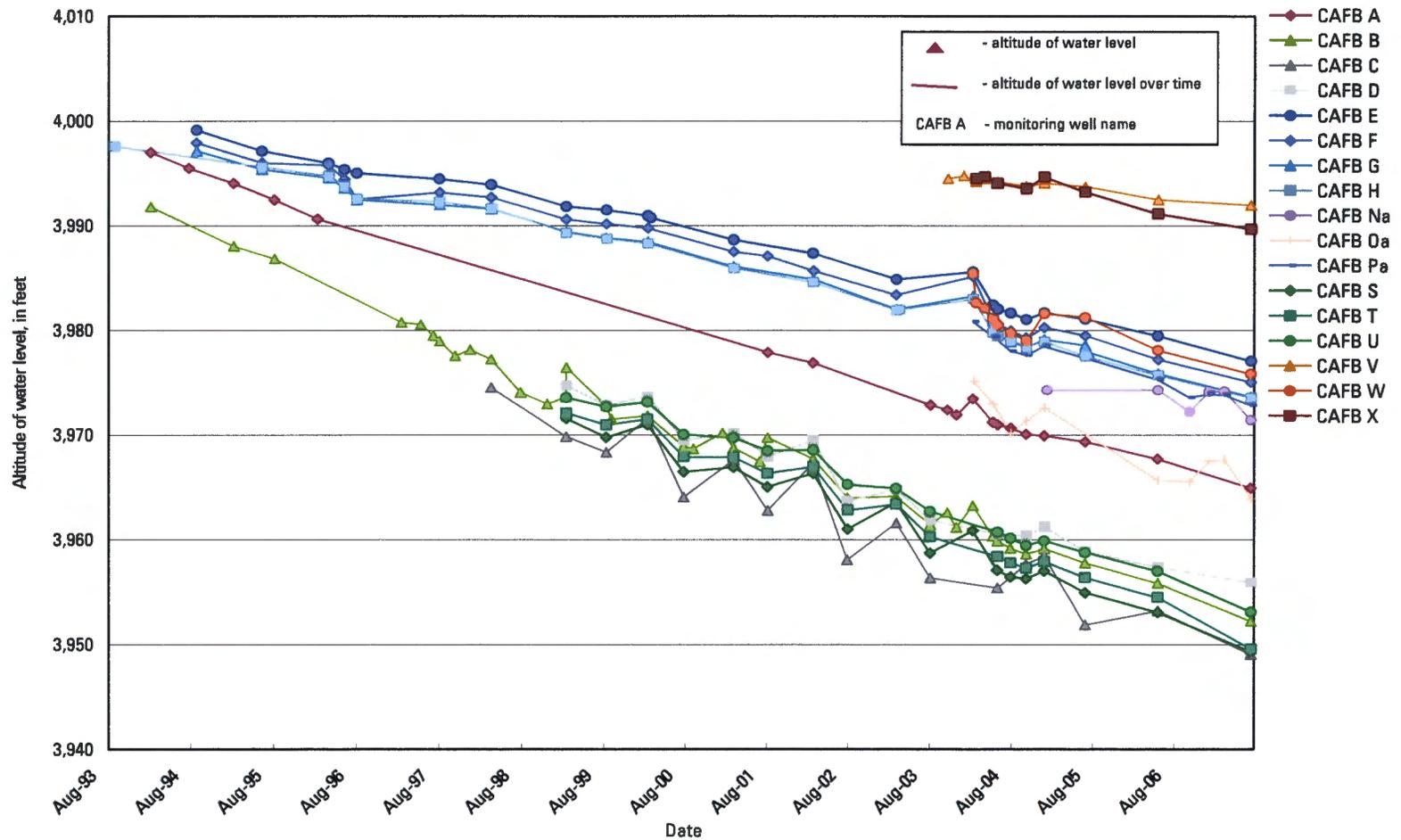


Figure 3. Historical altitudes of ground water in wells A, B, C, D, E, F, G, H, Na, Oa, Pa, S, T, U, V, W, and X at Cannon Air Force Base, New Mexico.

Table 1. Summary of field properties of ground water collected July 23, 24, 25 and 26, 2007, from monitoring wells at Cannon Air Force Base, New Mexico.

[°C, degrees Celsius; $\mu\text{S}/\text{cm}$, microsiemens per centimeter; mg/L , milligrams per liter]

Sample ID:	CAFB A	CAFB B	CAFB C	CAFB D	CAFB E	CAFB F
Sample date & time:	7/25/07 0950	7/24/07 1140	7/24/07 1430	7/25/07 1300	7/24/07 0925	7/23/07 1350
Analytes	Result	Result	Result	Result	Result	Result
FIELD PROPERTIES						
Temperature (°C)	18.6	18.7	18.6	18.5	18.1	18.1
pH	7.49	7.49	7.24	7.24	7.28	7.55
Specific conductance ($\mu\text{S}/\text{cm}$)	594	741	638	606	772	1030
Dissolved oxygen (mg/L)	6.17	7.03	3.22	5.68	6.49	6.74

Sample ID:	CAFB G	CAFB H	CAFB Na	CAFB Oa	CAFB Pa	CAFB S
Sample date & time:	7/23/07 1535	7/24/07 1135	7/23/07 1615	7/24/07 1010	7/23/07 1420	7/24/07 1500
Analytes	Result	Result	Result	Result	Result	Result
FIELD PROPERTIES						
Temperature (°C)	17.9	18.4	23.6	19.7	26.2	18.7
pH	7.44	7.41	7.49	7.36	7.17	7.31
Specific conductance ($\mu\text{S}/\text{cm}$)	885	780	569	1604	977	778
Dissolved oxygen (mg/L)	6.12	5.98	5.89	1.48	3.20	7.26

Sample ID:	CAFB T	CAFB U	CAFB V	CAFB W	CAFB X
Sample date & time:	7/24/07 1315	7/24/07 0905	7/25/07 1430	7/26/07 0845	7/26/07 1015
Analytes	Result	Result	Result	Result	Result
FIELD PROPERTIES					
Temperature (°C)	18.7	18.3	19.4	18.7	18.8
pH	7.37	7.46	7.37	7.80	7.60
Specific conductance ($\mu\text{S}/\text{cm}$)	752	783	1395	1217	507
Dissolved oxygen (mg/L)	7.34	7.70	5.90	3.98	7.39

Table 2. Summary of analyte concentrations in ground water collected July 23, 24, 25 and 26, 2007, from Landfill 5 monitoring wells at Cannon Air Force Base, New Mexico.

[RL, reporting limit; µg/L, micrograms per liter; ND, not detected; B, estimated concentration - detected below the reporting limit; COL, More than 40% RPD between primary and confirmation detector results. The lower of the two results is reported.]

Sample ID:	CAFB A		CAFB B		CAFB C		CAFB C-2		CAFB D	
Sample date & time:	7/25/07	0950	7/24/07	1140	7/24/07	1430	7/24/07	1435	7/25/07	1300
Analytes and Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
VOLATILE ORGANIC COMPOUNDS										
Chloromethane, SW846 (µg/L)	ND	2.0	ND	2.0	ND	2.0	ND	2.0	0.30 B	2.0
Trichloroethene, SW846 (µg/L)	ND	1.0	ND	1.0	0.27 B	1.0	0.30 B	1.0	ND	1.0
SEMIVOLATILE ORGANIC COMPOUNDS										
Benzyl alcohol, SW846 (µg/L)	1.2 B	10	ND	10	ND	10	1.6 B	10	ND	10
POLYNUCLEAR AROMATIC HYDROCARBONS										
Benzo (k) fluoranthene SW 846 (µg/L)	ND	10	ND	10	ND	10	ND	10	ND	10
Indeno (1,2,3-cd) pyrene (µg/L)	ND	10	ND	10	ND	10	ND	10	ND	10
Sample ID: CAFB S										
Sample date & time: 7/24/07 1500										
Sample ID: CAFB T										
Sample date & time: 7/24/07 1315										
Sample ID: CAFB U										
Sample date & time: 7/24/07 0905										
Sample ID: CAFB A-TB										
Sample date & time: 7/25/07 0930										
Sample ID: CAFB C-TB										
Sample date & time: 7/24/07 1440										
Analytes and Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
VOLATILE ORGANIC COMPOUNDS										
Acetone, SW846 (µg/L)	ND	10	2.5 B	10	ND	10	ND	10	ND	10
Trichloroethene, SW846 (µg/L)	ND	1.0	ND	1.0	0.20 B	1.0	ND	1.0	ND	1.0
Sample ID: CAFB T-TB										
Sample date & time: 7/24/07 1630										
Analytes and Method	Result	RL								
VOLATILE ORGANIC COMPOUNDS										
Acetone, SW846 (µg/L)	3.2 B	10								

Table 2. Summary of analyte concentrations in ground water collected July 23, 24, 25 and 26, 2007, from Landfill 5 monitoring wells at Cannon Air Force Base, New Mexico - Continued.

[**RL**, reporting limit; **µg/L**, micrograms per liter; **NR**, not requested; **B**, estimated concentration - detected below the reporting limit; **J**, the associated method blank contained the target analyte at a reportable limit; **ND**, not detected.]

Sample ID:	CAFB A		CAFB A-TB		CAFB B		CAFB C		CAFB C-2	
Sample date & time:	7/25/07	0950	7/25/07	0930	7/24/07	1140	7/24/07	1430	7/24/07	1435
Analytes and Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
TRACE ELEMENTS										
Arsenic, SW6020 (µg/L)	5.6	5.0	NR		5.0	5.0	4.7 B	5.0	5.0	5.0
Barium, SW6010B (µg/L)	37	10	NR		31	10	74	10	76	10
Boron, SW6010B (µg/L)	170	100	NR		190	100	230	100	240	100
Chromium, SW6020 (µg/L)	1.5 B	2.0	NR		1.7 B	2.0	0.81 B	2.0	0.90 B	2.0
Iron, SW6010B (µg/L)	25 B, J	100	NR		28 B, J	100	44 B, J	100	41 B, J	100
Lead, SW6020 (µg/L)	ND	1.0	NR		0.23 B	1.0	0.20 B	1.0	0.30 B	1.0
Manganese, SW6010B (µg/L)	ND	10	NR		2.8 B	10	4.4 B	10	4.2 B	10
Selenium, SW6020 (µg/L)	3.5 B	5.0	NR		6.2	5.0	0.98 B	5.0	0.95 B	5.0
Strontium, SW6010B (µg/L)	1,100	10	NR		1,300	10	1,200	10	1,200	10
Vanadium, SW6010B (µg/L)	37	10	NR		29	10	38	10	39	10

Table 2. Summary of analyte concentrations in ground water collected July 23, 24, 25 and 26, 2007, from Landfill 5 monitoring wells at Cannon Air Force Base, New Mexico - Continued.

[**RL**, reporting limit; **µg/L**, micrograms per liter; **NR**, not requested; **ND**, not detected; **B**, estimated concentration - detected below the reporting limit; **J**, the associated method blank contained the target analyte at a reportable limit]

Sample ID:	CAFB C-TB		CAFB D		CAFB S		CAFB T		CAFB T-TB		CAFB U	
Sample date & time:	7/24/07	1440	7/25/07	1300	7/24/07	1500	7/24/07	1315	7/24/07	1630	7/24/07	0905
Analytes and Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
TRACE ELEMENTS												
Aluminum, SW6010B (µg/L)	NR		ND	100	89 B	100	94 B	100	NR		87 B	100
Antimony, SW6020 (µg/L)	NR		0.23 B	2.0	ND	2.0	ND	2.0	NR		ND	2.0
Arsenic, SW6020 (µg/L)	NR		4.8 B	5.0	5.5	5.0	5.5	5.0	NR		4.8 B	5.0
Barium, SW6010B (µg/L)	NR		94	10	38	10	37	10	NR		34	10
Boron, SW6010B (µg/L)	NR		180	100	180	100	180	100	NR		170	100
Chromium, SW6020 (µg/L)	NR		0.75 B	2.0	1.3 B	2.0	3.7	2.0	NR		1.9 B	2.0
Copper, SW6010B (µg/L)	NR		ND	20	ND	20	ND	20	NR		14 B	20
Iron, SW6010B (µg/L)	NR		96 B,J	100	99 B, J	100	140 J	100	NR		120 J	100
Lead, SW6020 (µg/L)	NR		0.32 B	1.0	0.18 B	1.0	0.21 B	1.0	NR		ND	1.0
Manganese, SW6010B (µg/L)	NR		6.0 B	10	5.7 B	10	6.2 B	10	NR		6.1 B	10
Selenium, SW6020 (µg/L)	NR		1.3 B	5.0	7.0	5.0	6.5	5.0	NR		6.9	5.0
Strontium, SW6010B (µg/L)	NR		1,200	10	1,500	10	1,300	10	NR		1,400	10
Vanadium, SW6010B (µg/L)	NR		37	10	32	10	32	10	NR		28	10
Zinc, SW6010B (µg/L)	NR		ND	20	15 B	20	8.6 B	20	NR		8.7 B	20

Table 2. Summary of analyte concentrations in ground water collected July 23, 24, 25, and 26, 2007, from Landfill 5 monitoring wells at Cannon Air Force Base, New Mexico - Continued.

[**RL**, reporting limit; **mg/L**, milligrams per liter; **NR**, not requested; **J**, the associated method blank contained the target analyte at a reportable limit; **Q**, reporting limit elevated due to high analyte concentration; **B**, estimated concentration - detected below the reporting limit; **µg/L**, micrograms per liter; **ND**, not detected]

Sample ID: Sample date & time:	CAFB A		CAFB A-TB		CAFB B		CAFB C		CAFB C-2	
	7/25/07	0950	7/25/07	0930	7/24/07	1140	7/24/07	1430	7/24/07	1435
Analytes and Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
GENERAL CHEMISTRY										
Calcium, SW6010B (mg/L)	29	0.2	NR		37	0.2	32	0.2	33	0.2
Magnesium, SW6010B (mg/L)	27	0.2	NR		34	0.2	30	0.2	32	0.2
Potassium, SW6010B (mg/L)	6.1	3.0	NR		7.2	3.0	6.5	3.0	6.8	3.0
Sodium, SW6010B (mg/L)	52 J	5.0	NR		62 J	5.0	56 J	5.0	59 J	5.0
Silica, SW6010B (mg/L)	35	1.1	NR		36	1.1	37	1.1	40	1.1
Bromide, MCAWW300.0A (mg/L)	0.21	0.20	NR		0.38	0.20	0.20	0.20	0.20	0.20
Chloride, MCAWW300.0A (mg/L)	25 J	3.0	NR		46 Q	15	9.0	3.0	9.0	3.0
Fluoride, MCAWW300.0A (mg/L)	2.9	1.0	NR		2.7	1.0	2.2	1.0	2.1	1.0
Sulfate, MCAWW300.0A (mg/L)	84 Q	10	NR		120 Q	25	41	5.0	41	5.0
Dissolved Solids, MCAWW160.1 (mg/L)	360	10	NR		450	10	390	10	390	10
Total Organic Carbon, SW9060 (mg/L)	0.52 B,J	1.0	NR		1.7 J	1.0	0.74 B,J	1.0	0.58 B,J	1.0
Organic Halogens, SW9020B (µg/L)	ND	30	NR		ND	30	ND	30	ND	30
Total Alkalinity, MCAWW310.1 (mg/L)	170 J	5.0	NR		170 J	5.0	270 J	5.0	270 J	5.0
Total Cyanide, MCAWW 335.3 (mg/L)	ND	0.010	NR		ND	0.010	ND	0.010	ND	0.010
Nitrate, MCAWW300.0A (mg/L)	1.9	0.50	NR		0.99	0.50	2.0	0.50	2.0	0.50
Nitrate-Nitrite, MCAWW353.2 (mg/L)	1.8	0.10	NR		0.96	0.10	2.0	0.10	1.9	0.10
Orthophosphate, MCAWW300.0A (mg/L)	0.22 B	0.50	NR		0.59	0.50	ND	0.50	ND	0.50
Perchlorate, SW846 6860 (µg/L)	1.4	0.10	NR		2.4	0.50	0.22	0.10	0.21	0.10

Table 2. Summary of analyte concentrations in ground water collected July 23, 24, 25, and 26, 2007, from Landfill 5 monitoring wells at Cannon Air Force Base, New Mexico - Continued.

[**RL**, reporting limit; **mg/L**, milligrams per liter; **NR**, not requested; **J**, the associated method blank contained the target analyte at a reportable limit; **B**, estimated concentration - detected below the reporting limit; **Q**, reporting limit elevated due to high analyte concentration; **µg/L**, micrograms per liter; **ND**, not detected]

Sample ID: Sample date & time:	CAFB C-TB		CAFB D		CAFB S		CAFB T		CAFB T-TB		CAFB U	
	7/24/07	1440	7/25/07	1300	7/24/07	1500	7/24/07	1315	7/24/07	1630	7/24/07	0905
Analytes and Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
GENERAL CHEMISTRY												
Calcium, SW6010B (mg/L)	NR		31	0.2	43	0.2	39	0.2	NR		42	0.2
Magnesium, SW6010B (mg/L)	NR		29	0.2	39	0.2	35	0.2	NR		36	0.2
Potassium, SW6010B (mg/L)	NR		6.4	3.0	7.3	3.0	6.9	3.0	NR		6.8	3.0
Sodium, SW6010B (mg/L)	NR		52 J	5.0	56 J	5.0	56 J	5.0	NR		55 J	5.0
Silica, SW6010B (mg/L)	NR		39	1.1	37	1.1	35	1.1	NR		34	1.1
Bromide, MCAWW300.0A (mg/L)	NR		0.17 B	0.20	0.44	0.20	0.41	0.20	NR		0.49	0.20
Chloride, MCAWW300.0A (mg/L)	NR		9.4 J	3.0	59 Q	15	52 Q	15	NR		67 Q	15
Fluoride, MCAWW300.0A (mg/L)	NR		2.1	1.0	2.5	1.0	2.6	1.0	NR		2.5	1.0
Sulfate, MCAWW300.0A (mg/L)	NR		30	5.0	130 Q	25	130 Q	25	NR		120 Q	25
Dissolved Solids, MCAWW160.1 (mg/L)	NR		360	10	560	10	520	10	NR		510	10
Organic Carbon, SW9060 (mg/L)	NR		0.48 B,J	1.0	0.24 B,J	1.0	0.16 B,J	1.0	NR		1.8 J	1.0
Organic Halogens, SW9020B (µg/L)	NR		ND	30	ND	30	ND	30	NR		ND	30
Total Alkalinity, MCAWW310.1 (mg/L)	NR		260 J	5.0	150 J	5.0	160 J	5.0	NR		160 J	5.0
Total Cyanide, MCAWW335.3 (mg/L)	NR		ND	0.010	ND	0.010	ND	0.010	NR		ND	0.010
Nitrate, MCAWW300.0A (mg/L)	NR		1.3	0.50	1.3	0.50	0.91	0.50	NR		1.1	0.50
Nitrate-Nitrite, MCAWW353.2 (mg/L)	NR		1.3	0.10	1.2	0.10	0.83	0.10	NR		1.1	0.10
Orthophosphate, MCAWW300.0A (mg/L)	NR		ND	0.50	ND	0.50	0.32 B	0.50	NR		0.36 B	0.50
Perchlorate, SW846 6860 (µg/L)	NR		0.41	0.10	2.4	0.50	2.3	1.0	NR		2.5	0.50

Table 3. Summary of analyte concentrations in ground water collected July 23, 24, 25, and 26, 2007, from the sewage lagoon monitoring wells at Cannon Air Force Base, New Mexico.

[RL, reporting limit; $\mu\text{g/L}$, micrograms per liter; ND, not detected; B, Estimated result. Result is less than reporting limit.]

Sample ID:	CAFB E		CAFB E-2		CAFB F		CAFB G		CAFB G-TB	
Sample date & time:	7/24/07	0925	7/24/07	0930	7/23/07	1350	7/23/07	1535	7/23/07	1545
Analytes and Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
VOLATILE ORGANIC COMPOUNDS										
Acetone, SW8260B ($\mu\text{g/L}$)	ND	10	ND	10	2.2 B	10	ND	10	ND	10
Chlormethane, SW8260B ($\mu\text{g/L}$)	0.31 B	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Tetrachloroethene, SW8260B ($\mu\text{g/L}$)	ND	1.0	0.21 B	1.0	0.31 B	1.0	0.45 B	1.0	ND	1.0

Sample ID:	CAFB H		CAFB H-TB	
Sample date & time:	7/24/07	1135	7/24/07	1145
Analytes and Method	Result	RL	Result	RL
VOLATILE ORGANIC COMPOUNDS				
Acetone, SW846 ($\mu\text{g/L}$)	ND	10	ND	10

Table 3. Summary of analyte concentrations in ground water collected July 23, 24, 25, and 26, 2007, from the sewage lagoon monitoring wells at Cannon Air Force Base, New Mexico - Continued.

[**RL**, reporting limit; **µg/L**, micrograms per liter; **ND**, not detected; **B**, estimated concentration - detected below the reporting limit; **NR**, not requested; **J**, the associated method blank contained the target analyte at a reportable limit]

Sample ID:	CAFB E		CAFB E-2		CAFB F		CAFB G		CAFB G-TB	
Sample date & time:	7/24/07	0925	7/24/07	0930	7/23/07	1350	7/23/07	1535	7/23/07	1545
Analytes and Method	Result	RL	Result	RL	Result	Result	Result	RL	Result	RL
TRACE ELEMENTS										
Aluminum, SW6010B (µg/L)	ND	100	18 B	100	23 B	100	ND	100	NR	
Arsenic, SW6020 (µg/L)	2.8 B	5.0	3.0 B	5.0	3.1 B	5.0	2.9 B	5.0	NR	
Barium, SW6010B (µg/L)	49	10	49	10	45	10	38	10	NR	
Boron, SW6010B (µg/L)	220	100	220	100	180	100	180	100	NR	
Chromium, SW6020 (µg/L)	3.3	2.0	3.1	2.0	3.3	2.0	3.3	2.0	NR	
Iron, SW6010B (µg/L)	38 B,J	100	35 B,J	100	43 B,J	100	24 B,J	100	NR	
Lead, SW6020 (µg/L)	7.2	1.0	5.9	1.0	0.46 B	1.0	ND	1.0	NR	
Manganese, SW6010B (µg/L)	2.3 B	10	2.2 B	10	6.0 B	10	ND	10	NR	
Selenium, SW6020 (µg/L)	3.3 B	5.0	2.8 B	5.0	6.3	5.0	4.4 B	5.0	NR	
Strontium, SW6010B (µg/L)	1,800	10	1,800	10	1,800	10	1,700	10	NR	
Vanadium, SW6010B (µg/L)	21	10	20	10	17	10	17	10	NR	
Zinc, SW6010B (µg/L)	13 B	20	11 B	20	8.7 B	20	9.6 B	20	NR	

Table 3. Summary of analyte concentrations in ground water collected July 23, 24, 25, and 26, 2007, from the sewage lagoon monitoring wells at Cannon Air Force Base, New Mexico - Continued.

[**RL**, reporting limit; **µg/L**, micrograms per liter; **B**, estimated concentration - detected below the reporting limit; **NR**, not requested; **J**, the associated method blank contained the target analyte at a reportable limit]

Sample ID: Sample date & time:	CAFB H		CAFB H-TB	
	7/24/07	1135	7/24/07	1145
Analytes and Method	Result	RL	Result	RL
TRACE ELEMENTS				
Arsenic, SW6020 (µg/L)	4.2 B	5.0	NR	
Barium, SW6010B (µg/L)	30	10	NR	
Boron, SW6010B (µg/L)	180	100	NR	
Chromium, SW6020 (µg/L)	2.2	2.0	NR	
Iron, SW6010B (µg/L)	58 B,J	100	NR	
Lead, SW6020 (µg/L)	0.39 B	1.0	NR	
Selenium, SW6020 (µg/L)	8.6	5.0	NR	
Strontium, SW6010B (µg/L)	1,500	10	NR	
Vanadium, SW6010B (µg/L)	20	10	NR	
Zinc, SW6010B (µg/L)	24	20	NR	

Table 3. Summary of analyte concentrations in ground water collected July 23, 24, 25, and 26, 2007, from the sewage lagoon monitoring wells at Cannon Air Force Base, New Mexico - Continued.

[**RL**, reporting limit; **mg/L**, milligrams per liter; **NR**, not requested; **J**, the associated method blank contained the target analyte at a reportable limit; **Q**, reporting limit elevated due to high analyte concentration; **B**, estimated concentration - detected below the reporting limit; **ND**, not detected; **µg/L**, micrograms per liter]

Sample ID: Sample date & time:	CAFB E		CAFB E-2		CAFB F		CAFB G		CAFB G-TB	
	7/24/07	0925	7/24/07	0930	7/23/07	1350	7/23/07	1535	7/23/07	1545
Analytes and Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
GENERAL CHEMISTRY										
Calcium, SW6010B (mg/L)	42	0.2	42	0.2	53	0.2	47	0.2		NR
Magnesium, SW6010B (mg/L)	37	0.2	37	0.2	48	0.2	43	0.2		NR
Potassium, SW6010B (mg/L)	7.7	3.0	7.7	3.0	8.9	3.0	8.2	3.0		NR
Sodium, SW6010B (mg/L)	64 J	5.0	64 J	5.0	64 J	5.0	52 J	5.0		NR
Silica, SW6010B (mg/L)	38	1.1	38	1.1	34	1.1	34	1.1		NR
Chloride, MCAWW300.0A (mg/L)	47	3.0	47	3.0	150 Q	15	96 Q	15		NR
Fluoride, MCAWW300.0A (mg/L)	1.9	1.0	1.9	1.0	1.9	1.0	1.8	1.0		NR
Bromide, MCAWW300.0A (mg/L)	0.17 B	0.20	0.17 B	0.20	0.32	0.20	0.24	0.20		NR
Sulfate, MCAWW300.0A (mg/L)	78 Q	25	78 Q	25	120 Q	25	100 Q	25		NR
Sulfide, SW9030B/9034 (mg/L)	1.4 B	4.0	1.4 B	4.0	2.1 B	4.0	1.9 B	4.0		NR
Dissolved Solids, MCAWW160.1 (mg/L)	490	10	490	10	700	10	600	10		NR
Organic Carbon, SW9060 (mg/L)	0.37 B,J	1.0	0.35 B,J	1.0	ND	1.0	ND	1.0		NR
Orthophosphate, MCAWW300.0A (mg/L)	ND	0.50	ND	0.50	ND	0.50	0.29 B	0.50		NR
Total Alkalinity, MCAWW310.1 (mg/L)	240 J	5.0	240 J	5.0	150 J	5.0	180 J	5.0		NR
Nitrate, MCAWW300.0A (mg/L)	2.4	0.50	2.4	0.50	1.3	0.50	1.6	0.50		NR
Nitrate-Nitrite, MCAWW353.2 (mg/L)	2.3	0.10	2.3	0.10	1.3	0.10	1.6	0.10		NR
Perchlorate, SW6860 (µg/L)	0.98	0.50	1.0	0.10	2.1	0.50	1.7	0.50		NR

Table 3. Summary of analyte concentrations in ground water collected July 23, 24, 25, and 26, 2007, from the sewage lagoon monitoring wells at Cannon Air Force Base, New Mexico - Continued.

[**RL**, reporting limit; **mg/L**, milligrams per liter; **NR**, not requested; **J**, the associated method blank contained the target analyte at a reportable limit; **Q**, reporting limit elevated due to high analyte concentration; **B**, estimated concentration - detected below the reporting limit; **µg/L**, micrograms per liter]

Sample ID: Sample date & time:	CAFB H		CAFB H-TB	
	7/24/07	1135	7/24/07	1145
Analytes and Method	Result	RL	Result	RL
GENERAL CHEMISTRY				
Calcium, SW6010B (mg/L)	41	0.2	NR	
Magnesium, SW6010B (mg/L)	37	0.2	NR	
Potassium, SW6010B (mg/L)	7.4	3.0	NR	
Sodium, SW6010B (mg/L)	60 J	5.0	NR	
Silica, SW6010B (mg/L)	34	1.1	NR	
Chloride, MCAWW300.0A (mg/L)	47 Q	15	NR	
Fluoride, MCAWW300.0A (mg/L)	2.1	1.0	NR	
Bromide, MCAWW300.0A (mg/L)	0.39	0.20	NR	
Sulfate, MCAWW300.0A (mg/L)	140 Q	25	NR	
Sulfide, SW9030B/9034 (mg/L)	1.2 B	4.0	NR	
Dissolved Solids, MCAWW160.1 (mg/L)	540	10	NR	
Total Alkalinity, MCAWW310.1 (mg/L)	170 J	5.0	NR	
Nitrate, MCAWW300.0A (mg/L)	1.2	0.50	NR	
Nitrate-Nitrite, MCAWW353.2 (mg/L)	1.1	0.10	NR	
Perchlorate, SW6860 (µg/L)	2.8	0.50	NR	

Table 4. Summary of analyte concentrations in ground water collected July 23, 24, 25, and 26, 2007, from the perimeter and playa lake monitoring wells at Cannon Air Force Base, New Mexico.

[**RL**, reporting limit; **µg/L**, micrograms per liter; **ND**, not detected; **B**, estimated concentration - detected below the reporting limit; **J**, the associated method blank contained the target analyte at a reportable limit]

Sample ID: Sample date & time:	CAFB Na		CAFB Oa		CAFB Pa		CAFB V		CAFB V-EB	
	7/23/07	1615	7/24/07	1010	7/23/07	1420	7/25/07	1430	7/25/07	1500
Analytes and Method	Result	RL	Result	RL	Result	Result	Result	RL	Result	RL
TRACE ELEMENTS										
Aluminum, SW6010B (µg/L)	ND	100	120	100	36 B	100	20 B	100	22 B	100
Arsenic, SW6020 (µg/L)	2.9 B	5.0	3.0 B	5.0	4.6 B	5.0	4.7 B	5.0	ND	5.0
Barium, SW6010B (µg/L)	29	10	53	10	45	10	33	10	ND	10
Boron, SW6010B (µg/L)	220	100	390	100	140	100	180	100	ND	100
Cadmium, SW6020 (µg/L)	ND	1.0	ND	1.0	ND	1.0	0.35 B	1.0	ND	1.0
Chromium, SW6020 (µg/L)	2.9	2.0	1.1 B	2.0	1.5 B	2.0	1.5 B	2.0	0.57 B	2.0
Cobalt, SW6010B (µg/L)	ND	10	2.6 B	10	ND	10	ND	10	ND	10
Iron, SW6010B (µg/L)	44 B,J	100	90 B,J	100	31 B,J	100	40 B,J	100	32 B,J	100
Lead, SW6020 (µg/L)	ND	1.0	ND	1.0	0.22 B	1.0	0.27 B	1.0	0.57 B	1.0
Manganese, SW6010B (µg/L)	ND	10	3.5 B	10	ND	10	9.9 B	10	ND	10
Selenium, SW6020 (µg/L)	5.4	5.0	3.7 B	5.0	7.1	5.0	13	5.0	ND	5.0
Strontium, SW6010B (µg/L)	2,200	10	2,300	10	1,000	10	2,600	10	0.82 B	10
Vanadium, SW6010B (µg/L)	17	10	15	10	24	10	21	10	ND	10
Zinc, SW6010B (µg/L)	4.6 B	20	ND	20	5.5 B	20	8.8 B	20	5.4 B	20

Table 4. Summary of analyte concentrations in ground water collected July 23, 24, 25, and 26, 2007, from the perimeter and playa lake monitoring wells at Cannon Air Force Base, New Mexico – Continued.

[**RL**, reporting limit; **µg/L**, micrograms per liter; **B**, estimated concentration - detected below the reporting limit; **J**, the associated method blank contained the target analyte at a reportable limit]

Sample ID: Sample date & time:	CAFB W		CAFB X	
	7/26/07	0845	7/26/07	1015
Analytes and Method	Result	RL	Result	RL
TRACE ELEMENTS				
Aluminum, SW6010B (µg/L)	92 B	100	25 B	100
Arsenic, SW6020 (µg/L)	3.0 B	5.0	6.8	5.0
Barium, SW6010B (µg/L)	16	10	60	10
Boron, SW6010B (µg/L)	930	100	170	100
Cadmium, SW6020 (µg/L)	0.31 B	1.0	0.11 B	1.0
Chromium, SW6020 (µg/L)	1.5 B	2.0	2.3	2.0
Iron, SW6010B (µg/L)	90 B	100	160	100
Lead, SW6020 (µg/L)	0.60 B	1.0	0.22 B	1.0
Manganese, SW6010B (µg/L)	3.5 B	10	2.4 B	10
Molybdenum, SW6010B (µg/L)	19 B	20	8.6 B	20
Selenium, SW6020 (µg/L)	4.2 B	5.0	2.9 B	5.0
Strontium, SW6010B (µg/L)	1,900	10	910	10
Vanadium, SW6010B (µg/L)	6.2 B	10	50	10
Zinc, SW6010B (µg/L)	10 B,J	20	7.6 B,J	20

Table 4. Summary of analyte concentrations in ground water collected July 23, 24, 25, and 26, 2007, from the perimeter and playa lake monitoring wells at Cannon Air Force Base, New Mexico – Continued.

[**RL**, reporting limit; **mg/L**, milligrams per liter; **ND**, not detected; **J**, the associated method blank contained the target analyte at a reportable limit; **B**, estimated concentration - detected below the reporting limit; **G**, reporting limit elevated due to matrix interference; **Q**, reporting limit elevated due to high analyte concentration; **µg/L**, micrograms per liter]

Sample ID: Sample date & time:	CAFB Na		CAFB Oa		CAFB Pa		CAFB V		CAFB V-EB	
	7/23/07	1615	7/24/07	1010	7/23/07	1420	7/25/07	1430	7/25/07	1500
Analytes and Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
GENERAL CHEMISTRY										
Calcium, SW6010B (mg/L)	60	0.2	65	0.2	30	0.2	76	0.2	0.22	0.2
Magnesium, SW6010B (mg/L)	56	0.2	59	0.2	27	0.2	63	0.2	ND	0.2
Potassium, SW6010B (mg/L)	9.1	3.0	9.8	3.0	7.1	3.0	8.9	3.0	ND	3.0
Sodium, SW6010B (mg/L)	53 J	5.0	200 J	5.0	42 J	5.0	87 J	5.0	0.330 B,J	5.0
Silica, SW6010B (mg/L)	38	1.1	38	1.1	34	1.1	35	1.1	1.4	1.1
Chloride, MCAWW300.0A (mg/L)	31 G	6.0	210 Q	15	82 Q	15	230 J,Q	30	0.52 B,J	3.0
Fluoride, MCAWW300.0A (mg/L)	2.2	1.0	1.0	1.0	1.5	1.0	2.0	1.0	0.089 B	1.0
Bromide, MCAWW300.0A (mg/L)	0.26	0.20	0.58	0.20	0.26	0.20	1.3	0.20	ND	0.20
Sulfate, MCAWW300.0A (mg/L)	66 Q	10	150 Q	25	150 Q	25	170 Q	50	ND	5.0
Dissolved Solids, MCAWW160.1 (mg/L)	360	10	1,000	10	700	10	820	10	ND	10
Orthophosphate, MCAWW300.0A (mg/L)	0.35 B	0.50	ND	0.50	0.35 B	0.50	ND	0.50	0.22 B	0.50
Total Alkalinity, MCAWW310.1 (mg/L)	170 J	5.0	380 J	5.0	230 J	5.0	150 J	5.0	1.6 B,J	5.0
Nitrate, MCAWW300.0A (mg/L)	1.4	0.50	7.3	0.50	1.7	0.50	4.4	0.50	ND	0.50
Nitrate-Nitrite, MCAWW353.2 (mg/L)	1.9	0.10	6.8	0.10	1.6	0.10	4.2	0.10	ND	0.10
Perchlorate, SW6860 (µg/L)	1.7	0.50	0.49	0.10	1.9	0.50	9.0	2.0	ND	0.10

Table 4. Summary of analyte concentrations in ground water collected July 23, 24, 25, and 26, 2007, from the perimeter and playa lake monitoring wells at Cannon Air Force Base, New Mexico – Continued.

[**RL**, reporting limit; **mg/L**, milligrams per liter; **J**, the associated method blank contained the target analyte at a reportable limit; **Q**, reporting limit elevated due to high analyte concentration; **B**, estimated concentration - detected below the reporting limit; **µg/L**, micrograms per liter]

Sample ID: Sample date & time:	CAFB W		CAFB X	
	7/26/07	0845	7/26/07	1015
Analytes and Method	Result	RL	Result	RL
GENERAL CHEMISTRY				
Calcium, SW6010B (mg/L)	61 J	0.2	27 J	0.2
Magnesium, SW6010B (mg/L)	48	0.2	24	0.2
Potassium, SW6010B (mg/L)	11	3.0	6.0	3.0
Sodium, SW6010B (mg/L)	120	5.0	45	5.0
Silica, SW6010B (mg/L)	15	1.1	39	1.1
Chloride, MCAWW300.0A (mg/L)	110 Q	30	19	3.0
Fluoride, MCAWW300.0A (mg/L)	0.65 B	1.0	2.7	1.0
Bromide, MCAWW300.0A (mg/L)	0.94	0.20	0.15 B	0.20
Sulfate, MCAWW300.0A (mg/L)	350 Q	50	47	5.0
Dissolved Solids, MCAWW160.1 (mg/L)	820	10	310	10
Total Alkalinity, MCAWW310.1 (mg/L)	86 J	5.0	180 J	5.0
Nitrate, MCAWW300.0A (mg/L)	0.90	0.50	1.7	0.50
Nitrate-Nitrite, MCAWW353.2 (mg/L)	0.88	0.10	0.92	0.10
Perchlorate, SW6860 (µg/L)	0.14	0.10	1.1	0.50

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	<u>Cannon Air Force Base</u>	
EPA I.D. NUMBER	<u>NM 7572124454</u>	
COUNTY	<u>Curry</u>	
WELL NUMBER	<u>A</u>	
WELL LOCATION (LONGITUDE)	<u>103° 18' 31.44"</u>	
WELL LOCATION (LATITUDE)	<u>34° 22' 18.91"</u>	
AQUIFER NAME	<u>Ogallala</u>	
AQUIFER CONFINED	<u>UNCONFINED</u>	<u>X</u>
WELL INSTALLATION DATE	<u>01/07/1985</u>	
DRILLING METHOD	<u>HYDRT (mud rotary)</u>	
INNER CASING DIAMETER	<u>4 inches</u>	
BOREHOLE DIAMETER	<u>8 inches</u>	
CASING MATERIAL	<u>PVC</u>	
METHOD OF DEVELOPMENT	<u>AIRFT</u>	
ELEV BOTTOM OF BOREHOLE	<u>3,898.83 feet above MSL</u>	
ELEV BOTTOM OF WELL CASING	<u>3,920.83 feet above MSL</u>	
ELEV BOTTOM OF SCREENED INT	<u>3,920.83 feet above MSL</u>	
ELEV OF TOP OF SCREENED INT	<u>3,935.83 feet above MSL</u>	
MEASURING POINT CORRECTION	<u>1.97 feet</u>	
SURVEYED ELEV OF CASING TOP	<u>4,265.8 feet above MSL</u>	

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	<u>Cannon Air Force Base</u>	
EPA I.D. NUMBER	<u>NM 7572124454</u>	
COUNTY	<u>Curry</u>	
WELL NUMBER	<u>B</u>	
WELL LOCATION (LONGITUDE)	<u>103° 18' 10.36"</u>	
WELL LOCATION (LATITUDE)	<u>34° 22' 2.67"</u>	
AQUIFER NAME	<u>Ogallala</u>	
AQUIFER CONFINED	<u>UNCONFINED</u>	<u>X</u>
WELL INSTALLATION DATE	<u>11/30/1984</u>	
DRILLING METHOD	<u>HYDRT (mud rotary)</u>	
INNER CASING DIAMETER	<u>4 inches</u>	
BOREHOLE DIAMETER	<u>8 inches</u>	
CASING MATERIAL	<u>PVC</u>	
METHOD OF DEVELOPMENT	<u>AIRFT</u>	
ELEV BOTTOM OF BOREHOLE	<u>3,899.8 feet above MSL</u>	
ELEV BOTTOM OF WELL CASING	<u>3,899.8 feet above MSL</u>	
ELEV BOTTOM OF SCREENED INT	<u>3,899.8 feet above MSL</u>	
ELEV OF TOP OF SCREENED INT	<u>3,914.8 feet above MSL</u>	
MEASURING POINT CORRECTION	<u>2.2 feet</u>	
SURVEYED ELEV OF CASING TOP	<u>4,264.3 feet above MSL</u>	

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	<u>Cannon Air Force Base</u>	
EPA I.D. NUMBER	<u>NM 7572124454</u>	
COUNTY	<u>Curry</u>	
WELL NUMBER	<u>C</u>	
WELL LOCATION (LONGITUDE)	<u>103° 18' 16.5"</u>	
WELL LOCATION (LATITUDE)	<u>34° 21' 56.68"</u>	
AQUIFER NAME	<u>Ogallala</u>	
AQUIFER CONFINED	<u>UNCONFINED</u>	<u>X</u>
WELL INSTALLATION DATE	<u>01/11/1985</u>	
DRILLING METHOD	<u>HYDRT (mud rotary)</u>	
INNER CASING DIAMETER	<u>4 inches</u>	
BOREHOLE DIAMETER	<u>8 inches</u>	
CASING MATERIAL	<u>PVC</u>	
METHOD OF DEVELOPMENT	<u>AIRFT</u>	
ELEV BOTTOM OF BOREHOLE	<u>3,901.72 feet above MSL</u>	
ELEV BOTTOM OF WELL CASING	<u>3,901.72 feet above MSL</u>	
ELEV BOTTOM OF SCREENED INT	<u>3,901.72 feet above MSL</u>	
ELEV OF TOP OF SCREENED INT	<u>3,916.72 feet above MSL</u>	
MEASURING POINT CORRECTION	<u>2.11 feet</u>	
SURVEYED ELEV OF CASING TOP	<u>4,265.83 feet above MSL</u>	

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	<u>Cannon Air Force Base</u>	
EPA I.D. NUMBER	<u>NM 7572124454</u>	
COUNTY	<u>Curry</u>	
WELL NUMBER	<u>G</u>	
WELL LOCATION (LONGITUDE)	<u>103° 18' 12.07"</u>	
WELL LOCATION (LATITUDE)	<u>34° 23' 12.86"</u>	
AQUIFER NAME	<u>Ogallala</u>	
AQUIFER CONFINED	<u>UNCONFINED</u>	<u>X</u>
WELL INSTALLATION DATE	<u>11/10/1985</u>	
DRILLING METHOD	<u>HYDRT (mud rotary)</u>	
INNER CASING DIAMETER	<u>4 inches</u>	
BOREHOLE DIAMETER	<u>8 inches</u>	
CASING MATERIAL	<u>PVC</u>	
METHOD OF DEVELOPMENT	<u>AIRFT</u>	
ELEV BOTTOM OF BOREHOLE	<u>3,904.46 feet above MSL</u>	
ELEV BOTTOM OF WELL CASING	<u>3,904.46 feet above MSL</u>	
ELEV BOTTOM OF SCREENED INT	<u>3,904.46 feet above MSL</u>	
ELEV OF TOP OF SCREENED INT	<u>3,919.46 feet above MSL</u>	
MEASURING POINT CORRECTION	<u>3.09 feet</u>	
SURVEYED ELEV OF CASING TOP	<u>4,279.55 feet above MSL</u>	

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	<u>Cannon Air Force Base</u>
EPA I.D. NUMBER	<u>NM 7572124454</u>
COUNTY	<u>Curry</u>
WELL NUMBER	<u>H</u>
WELL LOCATION (LONGITUDE)	<u>103° 18' 17.43"</u>
WELL LOCATION (LATITUDE)	<u>34° 23' 7.72"</u>
AQUIFER NAME	<u>Ogallala</u>
AQUIFER CONFINED	<u>UNCONFINED</u> <u>X</u>
WELL INSTALLATION DATE	<u>11/18/1985</u>
DRILLING METHOD	<u>HYDRT (mud rotary)</u>
INNER CASING DIAMETER	<u>4 inches</u>
BOREHOLE DIAMETER	<u>8 inches</u>
CASING MATERIAL	<u>PVC</u>
METHOD OF DEVELOPMENT	<u>AIRFT</u>
ELEV BOTTOM OF BOREHOLE	<u>3,900.98 feet above MSL</u>
ELEV BOTTOM OF WELL CASING	<u>3,900.98 feet above MSL</u>
ELEV BOTTOM OF SCREENED INT	<u>3,905.98 feet above MSL</u>
ELEV OF TOP OF SCREENED INT	<u>3,920.98 feet above MSL</u>
MEASURING POINT CORRECTION	<u>3.0 feet</u>
SURVEYED ELEV OF CASING TOP	<u>4,278.98 feet above MSL</u>

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	<u>Cannon Air Force Base</u>	
EPA I.D. NUMBER	<u>NM 7572124454</u>	
COUNTY	<u>Curry</u>	
WELL NUMBER	<u>Na</u>	
WELL LOCATION (LONGITUDE)	<u>103° 17' 46.6"</u>	
WELL LOCATION (LATITUDE)	<u>34° 23' 18.11"</u>	
AQUIFER NAME	<u>Ogallala</u>	
AQUIFER CONFINED	<u>UNCONFINED</u>	<u>X</u>
WELL INSTALLATION DATE	<u>12/16/2004</u>	
DRILLING METHOD	<u>HYDRT (mud rotary)</u>	
INNER CASING DIAMETER	<u>4 inches</u>	
BOREHOLE DIAMETER	<u>8 inches</u>	
CASING MATERIAL	<u>PVC (schedule 80)</u>	
METHOD OF DEVELOPMENT	<u>BAILD</u>	
ELEV BOTTOM OF BOREHOLE	<u>3,886 feet above MSL</u>	
ELEV BOTTOM OF WELL CASING	<u>3,908 feet above MSL</u>	
ELEV BOTTOM OF SCREENED INT	<u>3,913 feet above MSL</u>	
ELEV OF TOP OF SCREENED INT	<u>3972.88 feet above MSL</u>	
MEASURING POINT CORRECTION	<u>2.40 feet</u>	
SURVEYED ELEV OF CASING TOP	<u>4,268.40 feet above MSL</u>	

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	<u>Cannon Air Force Base</u>
EPA I.D. NUMBER	<u>NM 7572124454</u>
COUNTY	<u>Curry</u>
WELL NUMBER	<u>Oa</u>
WELL LOCATION (LONGITUDE)	<u>103° 17' 50.6"</u>
WELL LOCATION (LATITUDE)	<u>34° 23' 0.33"</u>
AQUIFER NAME	<u>Ogallala</u>
AQUIFER CONFINED	<u>UNCONFINED</u>
	<u>X</u>
WELL INSTALLATION DATE	<u>02/26/2004-02/29/2004</u>
DRILLING METHOD	<u>HYDRT (mud rotary)</u>
INNER CASING DIAMETER	<u>4 inches</u>
BOREHOLE DIAMETER	<u>8 inches</u>
CASING MATERIAL	<u>PVC (schedule 80)</u>
METHOD OF DEVELOPMENT	<u>BAILD</u>
ELEV BOTTOM OF BOREHOLE	<u>3,900.11 feet above MSL</u>
ELEV BOTTOM OF WELL CASING	<u>3,905.11 feet above MSL</u>
ELEV BOTTOM OF SCREENED INT	<u>3,910.11 feet above MSL</u>
ELEV OF TOP OF SCREENED INT	<u>3,970.11 feet above MSL</u>
MEASURING POINT CORRECTION	<u>0.96 feet</u>
SURVEYED ELEV OF CASING TOP	<u>4,271.07 feet above MSL</u>

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	<u>Cannon Air Force Base</u>	
EPA I.D. NUMBER	<u>NM 7572124454</u>	
COUNTY	<u>Curry</u>	
WELL NUMBER	<u>Pa</u>	
WELL LOCATION (LONGITUDE)	<u>103° 18' 8.27"</u>	
WELL LOCATION (LATITUDE)	<u>34° 23' 10.5"</u>	
AQUIFER NAME	<u>Ogallala</u>	
AQUIFER CONFINED	<u>UNCONFINED</u>	<u>X</u>
WELL INSTALLATION DATE	<u>02/18/2004-02/21/2004</u>	
DRILLING METHOD	<u>HYDRT (mud rotary)</u>	
INNER CASING DIAMETER	<u>4 inches</u>	
BOREHOLE DIAMETER	<u>8 inches</u>	
CASING MATERIAL	<u>PVC (schedule 80)</u>	
METHOD OF DEVELOPMENT	<u>BAILD</u>	
ELEV BOTTOM OF BOREHOLE	<u>3,900.85 feet above MSL</u>	
ELEV BOTTOM OF WELL CASING	<u>3,910.85 feet above MSL</u>	
ELEV BOTTOM OF SCREENED INT	<u>3,915.85 feet above MSL</u>	
ELEV OF TOP OF SCREENED INT	<u>3,975.85 feet above MSL</u>	
MEASURING POINT CORRECTION	<u>0.97 feet</u>	
SURVEYED ELEV OF CASING TOP	<u>4,271.82 feet above MSL</u>	

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	<u>Cannon Air Force Base</u>
EPA I.D. NUMBER	<u>NM 7572124454</u>
COUNTY	<u>Curry</u>
WELL NUMBER	<u>S</u>
WELL LOCATION (LONGITUDE)	<u>103° 18' 10.7"</u>
WELL LOCATION (LATITUDE)	<u>34° 21' 57.01"</u>
AQUIFER NAME	<u>Ogallala</u>
AQUIFER CONFINED	<u>UNCONFINED</u> <u>X</u>
WELL INSTALLATION DATE	<u>12/06/1998</u>
DRILLING METHOD	<u>HYDRT (mud rotary)</u>
INNER CASING DIAMETER	<u>4 inches</u>
BOREHOLE DIAMETER	<u>8 inches</u>
CASING MATERIAL	<u>PVC (schedule 80)</u>
METHOD OF DEVELOPMENT	<u>BAILD</u>
ELEV BOTTOM OF BOREHOLE	<u>3,895.72 feet above MSL</u>
ELEV BOTTOM OF WELL CASING	<u>3,895.72 feet above MSL</u>
ELEV BOTTOM OF SCREENED INT	<u>3,936.72 feet above MSL</u>
ELEV OF TOP OF SCREENED INT	<u>3,976.72 feet above MSL</u>
MEASURING POINT CORRECTION	<u>2.06 feet</u>
SURVEYED ELEV OF CASING TOP	<u>4,262.78 feet above MSL</u>

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	<u>Cannon Air Force Base</u>	
EPA I.D. NUMBER	<u>NM 7572124454</u>	
COUNTY	<u>Curry</u>	
WELL NUMBER	<u>T</u>	
WELL LOCATION (LONGITUDE)	<u>103° 18' 9.47"</u>	
WELL LOCATION (LATITUDE)	<u>34° 22' 0.07"</u>	
AQUIFER NAME	<u>Ogallala</u>	
AQUIFER CONFINED	<u>UNCONFINED</u>	<u>X</u>
WELL INSTALLATION DATE	<u>12/10/1998</u>	
DRILLING METHOD	<u>HYDRT (mud rotary)</u>	
INNER CASING DIAMETER	<u>4 inches</u>	
BOREHOLE DIAMETER	<u>8 inches</u>	
CASING MATERIAL	<u>PVC (schedule 80)</u>	
METHOD OF DEVELOPMENT	<u>BAILD</u>	
ELEV BOTTOM OF BOREHOLE	<u>3,895.82 feet above MSL</u>	
ELEV BOTTOM OF WELL CASING	<u>3,895.82 feet above MSL</u>	
ELEV BOTTOM OF SCREENED INT	<u>3,936.82 feet above MSL</u>	
ELEV OF TOP OF SCREENED INT	<u>3,976.82 feet above MSL</u>	
MEASURING POINT CORRECTION	<u>1.87 feet</u>	
SURVEYED ELEV OF CASING TOP	<u>4,262.69 feet above MSL</u>	

MONITORING WELL ANNUAL SAMPLING REPORT

SAMPLES COLLECTED

BY Fredrick E. Gebhardt
 LABORATORY NAME Test America WELL NUMBER CAFB-A
 WELL CASING
 WELL DEPTH 343 feet VOLUME 26.83 gallons
 DATE SAMPLED 07-25-2007 LABORATORY SAMPLE I.D.# D7G260156-002
 TIME SAMPLED 0950 DATE RECEIVED BY LAB 07-26-2007

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3,964.95	07-25-2007
Flow Rate	00059	gal/min.	0.80	07-25-2007
Pump Period	72004	min.	50	07-25-2007
Volume Evacuated	73675	gal	40	07-25-2007
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: PE Well Sampling Method Bennett Pump

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.49	N/A	07-25-2007	Field electrometer
Specific Conductivity	00095	μs/cm	594	N/A	07-25-2007	Field electrometer
T.O.X.	70354	μg/L	ND	30	08-07-2007	SW9020B
T.O.C.	00680	mg/L	0.52 B,J	1.0	08-09-2007	SW9060

SIGNATURE
NAME (PRINTED) Fredrick E. Gebhardt

MONITORING WELL ANNUAL SAMPLING REPORT

SAMPLES COLLECTED

BY Fredrick E. Gebhardt
 LABORATORY NAME Test America WELL NUMBER CAFB-B
 WELL CASING VOLUME 32.17 gallons
 WELL DEPTH 362.3 feet
 DATE SAMPLED 07-24-2007 LABORATORY SAMPLE I.D.# D7G250221-004
 TIME SAMPLED 1140 DATE RECEIVED BY LAB 07-25-2007

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3952.25	07-24-2007
Flow Rate	00059	gal/min.	1.14	07-24-2007
Pump Period	72004	min.	35	07-24-2007
Volume Evacuated	73675	gal	40	07-24-2007
Well Sampling Method	84077	---	PSPMP	N/A
Sampler Material:	<u>PE</u>	Well Sampling Method	<u>Bennett Pump</u>	

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.49	N/A	07-24-2007	Field electrometer
Specific Conductivity	00095	µs/cm	741	N/A	07-24-2007	Field electrometer
T.O.X.	70354	µg/L	ND	30	08-07-2007	SW9020B
T.O.C.	00680	mg/L	1.7 J	1.0	08-09-2007	SW9060

SIGNATURE
NAME (PRINTED) Fredrick E. Gebhardt

MONITORING WELL ANNUAL SAMPLING REPORT

SAMPLES COLLECTED

BY Fredrick E. Gebhardt
 LABORATORY NAME Test America WELL NUMBER CAFB-C
 WELL CASING VOLUME 29.49 gallons
 WELL DEPTH 362 feet
 DATE SAMPLED 07-24-2007 LABORATORY SAMPLE I.D.# D7G250221-006
 TIME SAMPLED 1430 DATE RECEIVED BY LAB 07-25-2007

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3,949.10	07-23-2007
Flow Rate	00059	gal/min.	0.85	07-24-2007
Pump Period	72004	min.	47	07-24-2007
Volume Evacuated	73675	gal	40	007-24-2007
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: PE Well Sampling Method Bennett Pump

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.24	N/A	07-24-2007	Field electrometer
Specific Conductivity	00095	µs/cm	638	N/A	07-24-2007	Field electrometer
T.O.X.	70354	µg/L	ND	30	08-07-2007	SW9020B
T.O.C.	00680	mg/L	0.74 B,J	1.0	08-19-2007	SW9060

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MONITORING WELL ANNUAL SAMPLING REPORT

SAMPLES COLLECTED

BY Fredrick E. Gebhardt
 LABORATORY NAME Test America WELL NUMBER CAFB-D
 WELL DEPTH 356.75 feet WELL CASING VOLUME 30.10 gallons
 DATE SAMPLED 07-25-2007 LABORATORY SAMPLE I.D.# D7G260156-001
 TIME SAMPLED 1300 DATE RECEIVED BY LAB 07-26-2007

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3,955.94	07-23-2007
Flow Rate	00059	gal/min.	1.33	07-25-2007
Pump Period	72004	min.	30	07-25-2007
Volume Evacuated	73675	gal	40	07-25-2007
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: PE Well Sampling Method Bennett Pump

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.24	N/A	07-25-2007	Field electrometer
Specific Conductivity	00095	µs/cm	606	N/A	07-25-2007	Field electrometer
T.O.X.	70354	µg/L	ND	30	08-07-2007	SW9020B
T.O.C.	00680	mg/L	0.48 B,J	1.0	08-09-2007	SW9060

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MONITORING WELL ANNUAL SAMPLING REPORT

SAMPLES COLLECTED

BY Fredrick E. Gebhardt

LABORATORY

NAME Test America WELL NUMBER CAFB-E

WELL DEPTH 373 feet WELL CASING VOLUME 41.73 gallons

DATE SAMPLED 07-24-2007 LABORATORY SAMPLE I.D.# D7G250205-003

TIME SAMPLED 0925 DATE RECEIVED BY LAB 07-25-2007

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3,977.07	07-24-2007
Flow Rate	00059	gal/min.	0.89	07-24-2007
Pump Period	72004	min.	45	07-24-2007
Volume Evacuated	73675	gal	40	07-24-2007
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: PE Well Sampling Method Bennett Pump

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.28	N/A	07-24-2007	Field electrometer
Specific Conductivity	00095	μs/cm	772	N/A	07-24-2007	Field electrometer
T.O.X.	70354	μg/L	NR	N/A	N/A	N/A
T.O.C.	00680	mg/L	0.37 B,J	1.0	08-09-2007	SW9060

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MONITORING WELL ANNUAL SAMPLING REPORT

SAMPLES COLLECTED

BY Fredrick E. Gebhardt
 LABORATORY NAME Test America WELL NUMBER CAFB-F
 WELL DEPTH 375 feet WELL CASING VOLUME 44.04 gallons
 DATE SAMPLED 07-23-2007 LABORATORY SAMPLE I.D.# D7G240180-001
 TIME SAMPLED 1350 DATE RECEIVED BY LAB 07-24-2007

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3,975.06	07-23-2007
Flow Rate	00059	gal/min.	1.00	07-23-2007
Pump Period	72004	min.	40	07-23-2007
Volume Evacuated	73675	gal	40	07-23-2007
Well Sampling Method	84077	---	PSPMP	N/A
Sampler Material:	<u>PE</u>	Well Sampling Method	<u>Bennett Pump</u>	

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.55	N/A	07-23-2007	Field electrometer
Specific Conductivity	00095	μs/cm	1030	N/A	07-23-2007	Field electrometer
T.O.X.	70354	μg/L	NR	N/A	N/A	SW9020B
T.O.C.	00680	mg/L	ND	1.0	08-06-2007	SW9060

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MONITORING WELL ANNUAL SAMPLING REPORT

SAMPLES COLLECTED

BY Fredrick E. Gebhardt
 LABORATORY NAME Test America WELL NUMBER CAFB-G
 WELL DEPTH 372 feet WELL CASING VOLUME 40.8 gallons
 DATE SAMPLED 07-23-2007 LABORATORY SAMPLE I.D.# D7G240180-002
 TIME SAMPLED 1535 DATE RECEIVED BY LAB 07-24-2007

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3,973.67	07-23-2007
Flow Rate	00059	gal/min.	0.80	07-23-2007
Pump Period	72004	min.	50	07-23-2007
Volume Evacuated	73675	gal	40	07-23-2007
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: PE Well Sampling Method Bennett Pump

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.44	N/A	07-23-2007	Field electrometer
Specific Conductivity	00095	µs/cm	885	N/A	07-23-2007	Field electrometer
T.O.X.	70354	µg/L	NR	N/A	N/A	SW9020B
T.O.C.	00680	mg/L	ND	1.0	08-06-2007	SW9060

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MONITORING WELL ANNUAL SAMPLING REPORT

SAMPLES COLLECTED

BY Fredrick E. Gebhardt
 LABORATORY NAME Test America WELL NUMBER CAFB-H
 WELL DEPTH 375 feet WELL CASING VOLUME 42.8 gallons
 DATE SAMPLED 07-24-2007 LABORATORY SAMPLE I.D.# D7G250205-002
 TIME SAMPLED 1135 DATE RECEIVED BY LAB 07-25-2007

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3,973.57	07-24-2007
Flow Rate	00059	gal/min.	0.47	07-24-2007
Pump Period	72004	min.	85	07-24-2007
Volume Evacuated	73675	gal	40	07-24-2007
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: PE Well Sampling Method Bennett Pump

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.41	N/A	07-24-2007	Field electrometer
Specific Conductivity	00095	µs/cm	780	N/A	07-24-2007	Field electrometer
T.O.X.	70354	µg/L	NR	N/A	N/A	SW9020B
T.O.C.	00680	mg/L	ND	1.0	08-09-2007	SW9060

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MONITORING WELL ANNUAL SAMPLING REPORT

SAMPLES COLLECTED

BY Fredrick E. Gebhardt
 LABORATORY NAME Test America WELL NUMBER CAFB-Na
 WELL DEPTH 358 feet WELL CASING VOLUME 37.89 gallons
 DATE SAMPLED 07-23-2007 LABORATORY SAMPLE I.D.# D7G240187-002
 TIME SAMPLED 1615 DATE RECEIVED BY LAB 07-24-2007

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3,971.44	07-23-2007
Flow Rate	00059	gal/min.	0.09	07-23-2007
Pump Period	72004	min.	58	07-23-2007
Volume Evacuated	73675	gal	5	07-23-2007
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: PE Well Sampling Method Bennett Pump

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.49	N/A	07-23-2007	Field electrometer
Specific Conductivity	00095	μs/cm	569	N/A	07-23-2007	Field electrometer
T.O.X.	70354	μg/L	NR	N/A	N/A	SW9020B
T.O.C.	00680	mg/L	NR	N/A	N/A	SW9060

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MONITORING WELL ANNUAL SAMPLING REPORT

SAMPLES COLLECTED

BY Fredrick E. Gebhardt
 LABORATORY NAME Test America WELL NUMBER CAFB-Oa
 WELL DEPTH 365 feet WELL CASING VOLUME 35.12 gallons
 DATE SAMPLED 07-24-2007 LABORATORY SAMPLE I.D.# D7G250200-001
 TIME SAMPLED 1010 DATE RECEIVED BY LAB 07-25-2007

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3,963.91	07-24-2007
Flow Rate	00059	gal/min.	0.09	07-24-2007
Pump Period	72004	min.	58	07-24-2007
Volume Evacuated	73675	gal	5	07-24-2007
Well Sampling Method	84077	---	PSPMP	N/A
Sampler Material:	<u>PE</u>	Well Sampling Method	<u>Bennett Pump</u>	

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.36	N/A	07-24-2007	Field electrometer
Specific Conductivity	00095	µs/cm	1604	N/A	07-24-2007	Field electrometer
T.O.X.	70354	µg/L	NR	N/A	N/A	SW9020B
T.O.C.	00680	mg/L	NR	N/A	N/A	SW9060

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MONITORING WELL ANNUAL SAMPLING REPORT

SAMPLES COLLECTED

BY Fredrick E. Gebhardt
 LABORATORY NAME Test America WELL NUMBER CAFB-Pa
 WELL DEPTH 360 feet WELL CASING VOLUME 37.04 gallons
 DATE SAMPLED 07-23-2007 LABORATORY SAMPLE I.D.# D7G240187-001
 TIME SAMPLED 1420 DATE RECEIVED BY LAB 07-24-2007

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3,972.87	07-23-2007
Flow Rate	00059	gal/min.	0.09	07-23-2007
Pump Period	72004	min.	58	07-23-2007
Volume Evacuated	73675	gal	5	07-23-2007
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: PE Well Sampling Method Bennett Pump

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.17	N/A	07-23-2007	Field electrometer
Specific Conductivity	00095	µs/cm	977	N/A	07-23-2007	Field electrometer
T.O.X.	70354	µg/L	NR	N/A	N/A	SW9020B
T.O.C.	00680	mg/L	NR	N/A	N/A	SW9060

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MONITORING WELL ANNUAL SAMPLING REPORT

SAMPLES COLLECTED
 BY Fredrick E. Gebhardt
 LABORATORY NAME Test America WELL NUMBER CAFB-S
 WELL DEPTH 365 feet WELL CASING VOLUME 33.04 gallons
 DATE SAMPLED 07-24-2007 LABORATORY SAMPLE I.D.# D7G250221-001
 TIME SAMPLED 1500 DATE RECEIVED BY LAB 07-25-2007

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3,949.35	07-23-2007
Flow Rate	00059	gal/min.	1.21	07-24-2007
Pump Period	72004	min.	33	07-24-2007
Volume Evacuated	73675	gal	40	07-24-2007
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: PE Well Sampling Method Bennett Pump

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.31	N/A	07-24-2007	Field electrometer
Specific Conductivity	00095	µs/cm	778	N/A	07-24-2007	Field electrometer
T.O.X.	70354	µg/L	ND	30	08-07-2007	SW9020B
T.O.C.	00680	mg/L	0.24 B,J	1.0	08-09-2007	SW9060

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MONITORING WELL ANNUAL SAMPLING REPORT

SAMPLES COLLECTED

BY Fredrick E. Gebhardt

LABORATORY

NAME Test America WELL NUMBER CAFB-T

WELL DEPTH 365 feet WELL CASING VOLUME 33.93 gallons

DATE SAMPLED 07-24-2007 LABORATORY SAMPLE I.D.# D7G250221-002

TIME SAMPLED 1315 DATE RECEIVED BY LAB 07-25-2007

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3,949.61	07-24-2007
Flow Rate	00059	gal/min.	1.43	07-24-2007
Pump Period	72004	min.	28	07-24-2007
Volume Evacuated	73675	gal	40	07-24-2007
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: PE Well Sampling Method Bennett Pump

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.37	N/A	07-24-2007	Field electrometer
Specific Conductivity	00095	µs/cm	752	N/A	07-24-2007	Field electrometer
T.O.X.	70354	µg/L	ND	30	08-07-2007	SW9020B
T.O.C.	00680	mg/L	0.16 B,J	1.0	08-09-2007	SW9060

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MONITORING WELL ANNUAL SAMPLING REPORT

SAMPLES COLLECTED

BY Fredrick E. Gebhardt
 LABORATORY NAME Test America WELL NUMBER CAFB-U
 WELL DEPTH 365 feet WELL CASING VOLUME 34.53 gallons
 DATE SAMPLED 07-24-2007 LABORATORY SAMPLE I.D.# D7G250221-005
 TIME SAMPLED 0905 DATE RECEIVED BY LAB 07-25-2007

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3,953.13	07-24-2007
Flow Rate	00059	gal/min.	1.03	07-24-2007
Pump Period	72004	min.	39	07-24-2007
Volume Evacuated	73675	gal	40	07-24-2007
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: PE Well Sampling Method Bennett Pump

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.46	N/A	07-24-2007	Field electrometer
Specific Conductivity	00095	µs/cm	783	N/A	07-24-2007	Field electrometer
T.O.X.	70354	µg/L	ND	30	08-07-2007	SW9020B
T.O.C.	00680	mg/L	1.8 J	1.0	08-09-2007	SW9060

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MONITORING WELL ANNUAL SAMPLING REPORT

SAMPLES COLLECTED

BY Fredrick E. Gebhardt

LABORATORY

NAME Test America WELL NUMBER CAFB-V

WELL DEPTH 370 feet WELL CASING VOLUME 22.18 gallons

DATE SAMPLED 07-25-2007 LABORATORY SAMPLE I.D.# D7G260164-001

TIME SAMPLED 1430 DATE RECEIVED BY LAB 07-26-2007

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3,991.96	07-25-2007
Flow Rate	00059	gal/min.	0.80	07-25-2007
Pump Period	72004	min.	50	07-25-2007
Volume Evacuated	73675	gal	40	07-25-2007
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: PE Well Sampling Method Bennett Pump

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.37	N/A	07-25-2007	Field electrometer
Specific Conductivity	00095	µs/cm	1395	N/A	07-25-2007	Field electrometer
T.O.X.	70354	µg/L	NR	N/A	N/A	SW9020B
T.O.C.	00680	mg/L	NR	N/A	N/A	SW9060

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MONITORING WELL ANNUAL SAMPLING REPORT

SAMPLES COLLECTED

BY Fredrick E. Gebhardt
LABORATORY
NAME Test America **WELL NUMBER** CAFB-W
WELL DEPTH 365 feet **WELL CASING**
VOLUME 26.21 gallons
DATE SAMPLED 07-26-2007 **LABORATORY SAMPLE I.D.#** D7G270173-001
TIME SAMPLED 0845 **DATE RECEIVED BY LAB** 07-27-2007

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3,975.84	07-26-2007
Flow Rate	00059	gal/min.	1.33	07-26-2007
Pump Period	72004	min.	30	07-26-2007
Volume Evacuated	73675	gal	40	07-26-2007
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: PE **Well Sampling Method** Bennett Pump

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.80	N/A	07-26-2007	Field electrometer
Specific Conductivity	00095	µs/cm	1217	N/A	07-26-2007	Field electrometer
T.O.X.	70354	µg/L	NR	N/A	N/A	SW9020B
T.O.C.	00680	mg/L	NR	N/A	N/A	SW9060

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MONITORING WELL ANNUAL SAMPLING REPORT

SAMPLES COLLECTED

BY Fredrick E. Gebhardt
 LABORATORY NAME Test America WELL NUMBER CAFB-X
 WELL DEPTH 336 feet WELL CASING VOLUME 36.38 gallons
 DATE SAMPLED 07-26-2007 LABORATORY SAMPLE I.D.# D7G270173-002
 TIME SAMPLED 1015 DATE RECEIVED BY LAB 07-27-2007

PARAMETERS	STORET CODE	UNITS	VALUE	DATE
Elevation of G. Water	71993	ft.	3,989.67	07-26-2007
Flow Rate	00059	gal/min.	1.74	07-26-2007
Pump Period	72004	min.	23	07-26-2007
Volume Evacuated	73675	gal	40	07-26-2007
Well Sampling Method	84077	---	PSPMP	N/A

Sampler Material: PE Well Sampling Method Bennett Pump

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.60	N/A	07-26-2007	Field electrometer
Specific Conductivity	00095	µs/cm	507	N/A	07-26-2007	Field electrometer
T.O.X.	70354	µg/L	NR	N/A	N/A	SW9020B
T.O.C.	00680	mg/L	NR	N/A	N/A	SW9060

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