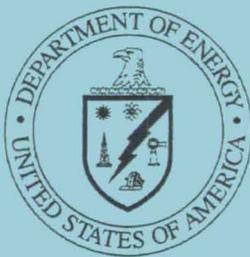


*Rocky Flats Environmental Technology Site
Quarterly Environmental Monitoring Report
April - June 2002*

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
QUARTERLY
ENVIRONMENTAL MONITORING REPORT
APRIL - JUNE 2002**



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AUGUST 2002

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**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
QUARTERLY
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APRIL - JUNE 2002**

PREPARED BY SAFE SITES OF COLORADO, L.L.C.

*THE DATA IN THIS DOCUMENT MAY BE PRELIMINARY AND COULD CHANGE AFTER THE
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AUGUST 2002

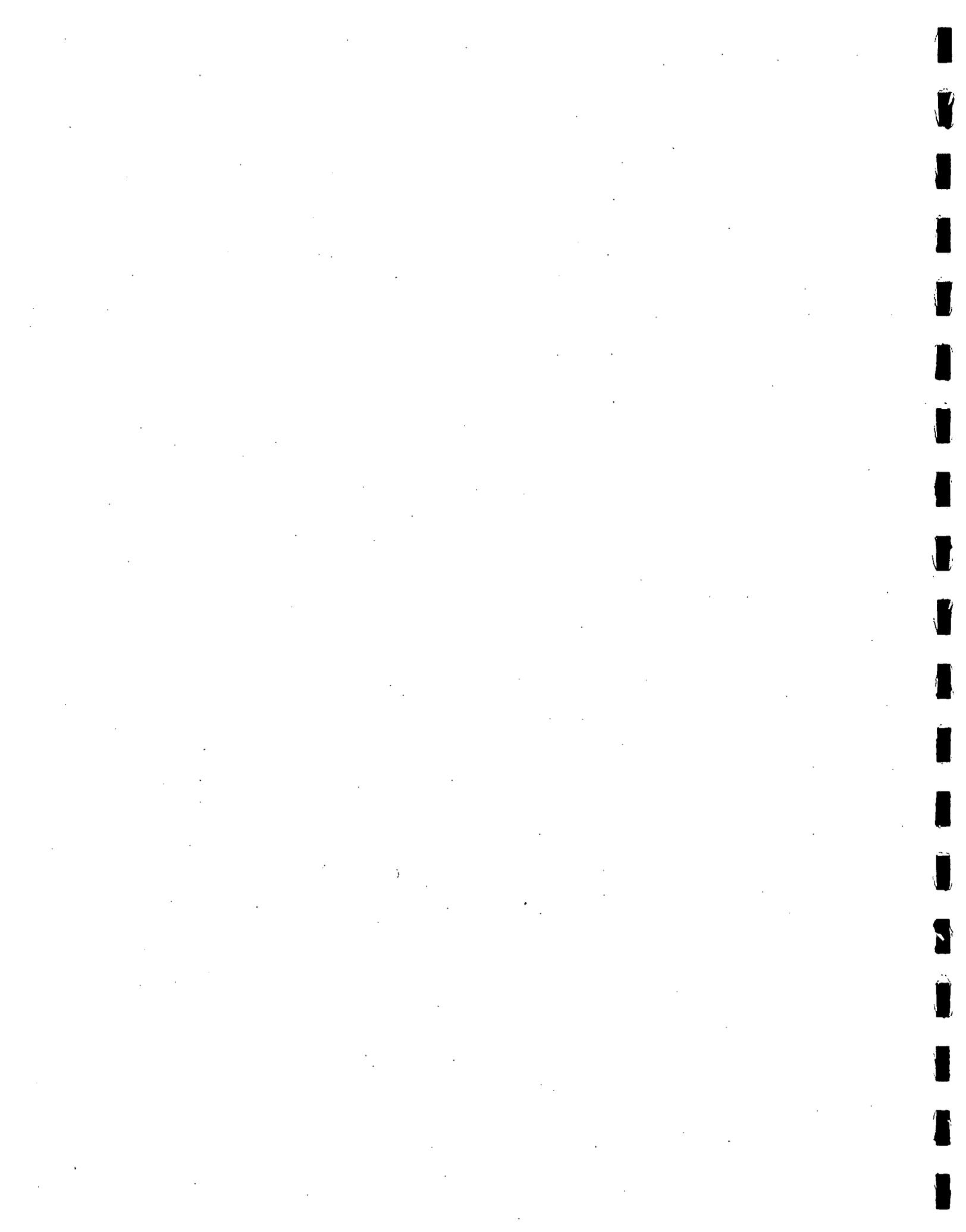


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HIGHLIGHTS FOR APRIL - JUNE 2002

This report is produced and distributed quarterly as part of our ongoing Agreement in Principle and as a forum for the Rocky Flats Cleanup Agreement (RFCA) quarterly monitoring requirement. As discussed at a previous Exchange of Information Meetings, the Site is consolidating its reporting for selected media. In an effort to provide a more meaningful interpretation of the data presented and to save some natural resources, namely trees, the Site will be providing analytical data in the following formats.

Airborne effluent data are represented by a single graph providing cumulative plutonium emissions for 1999, 2000, 2001, and 2002. Ambient air data are represented by two graphs – a summary of estimated off-site dose as compared to a 10 Mrem per year standard, and air concentrations at perimeter sample locations expressed as a percentage of EPA's air concentration-based dose limit for members of the public. Meteorological data are represented by one windrose and a climatic summary for each month in the reporting period.

Compliance data in support of the Site National Pollutant Discharge Elimination System (NPDES) permit are presented for the reporting period. Analytical data collected in support of RFCA will routinely include the following locations: GS01, GS03, GS08, GS10, GS11, GS31, SW022, SW027, and SW093. Data include the hydrograph, mean daily flow and available water quality measurements for each location during the reporting period. Other stations may appear or be deleted, as performance monitoring locations are added or dropped, as well as any new source detection locations that may be required. These additional Surface Water stations are presented in the same manner as the routine stations. Some locations, like GS32, have no flow monitoring capabilities and only analytical data are provided. The last section provides quarterly summary information for the Incidental Waters program.

Airborne Effluent

Complete isotopic analytical data through April 2002 are included in this report; due to an error, uranium data for May and June 2002 are being reanalyzed by the laboratory and are therefore incomplete. All data are within the normally observed ranges of concentrations for their respective locations. Consistent with all other uses of these data, only positive values are included in the total release calculation (the negative values are treated as zeros). The uncertainty calculation reflects all data.

Ambient Air

Complete isotopic analytical data through April 2002 for coarse (>10 micrometers) and fine (≤10 micrometers) ambient air samples are included in this report; coarse data for May 2002 include some preliminary results as the result of laboratory reanalysis of some samples. All data are within the normally observed ranges of concentrations for their respective locations.

Beginning first quarter 2002, this report now includes an additional section, Demolition and Remediation Performance Monitoring. It provides air monitoring results for radionuclides and, for selected projects beryllium, related to current demolition and remediation activities. No other demolition or remediation projects with significant potential air emissions occurred during this period.

Meteorology and Climatology

Meteorological data are routinely measured from instruments on a 61-meter tower located in the west buffer zone at an elevation of 1,870 meters (6,140 feet) above sea level. All meteorological data are collected on a real-time basis and are transmitted as 15-minute averaged values to the Computer Assisted Protective Action Recommendations System (CAPARS) model for emergency response purposes. The same data are logged at the tower and downloaded for air quality and surface water modeling purposes.

Climatic summaries and wind roses for April, May and June 2002 are included in this report.

As a result of the protocols used to validate the meteorological data, each 15-minute averaged observation is validated, rather than the entire observation record for the same time period (which might contain 70 different observations – e.g., temperature, wind speed, etc.). Missing data are reported with respect to the wind speed and wind direction values, for example, rather than recording all observations missing for the same 15-minute period. There were no missing wind speed and/or direction data during the quarter.

Surface Water

Surface water analytical data collected during the reporting period for NPDES permit compliance are presented in this report. During the first week of April, two of the three nitrite measurements were above the permitted effluent limitation. As reported in the previous Quarterly Report, there were two serious mechanical failures in the main treatment train at the wastewater treatment plant. EPA was appropriately notified of these nitrite measurements, as well as the corrective actions taken to return the plant to normal operating condition. All repairs were completed by April 22nd, and the plant was operating in accordance with permit requirements. Subsequent nitrite results for the remainder of April, May, and June were below permit limitations.

Included in this report are two surface water locations that monitor the Mound Site area. These locations are SW061 and SW132 and are sampled quarterly for isotopic Pu/Am, selected total and dissolved metals, and EPA VOA Method 8260.

Hydrologic Monitoring and Rocky Flats Cleanup Agreement (RFCA) Monitoring

All available analytical data collected during the reporting period from samples supporting RFCA and Hydrologic Monitoring programs are included in this report.

Three additional RFCA monitoring stations (GS55, GS58, and SW036) were included with this report. All three locations are new installations for performance monitoring of the Bldg. 881 area, Bldg. 886 area, and the Old Landfill, respectively. Locations GS55 and SW036 will monitor flow and collect composite samples. Location GS58 has no flow monitoring capabilities, but will collect composite samples.

Incidental Water Monitoring

A summary of Incidental Waters dispositioned during the reporting period are presented in this report.



1.0 AIR DATA

2.0 EFFLUENT AIR DATA

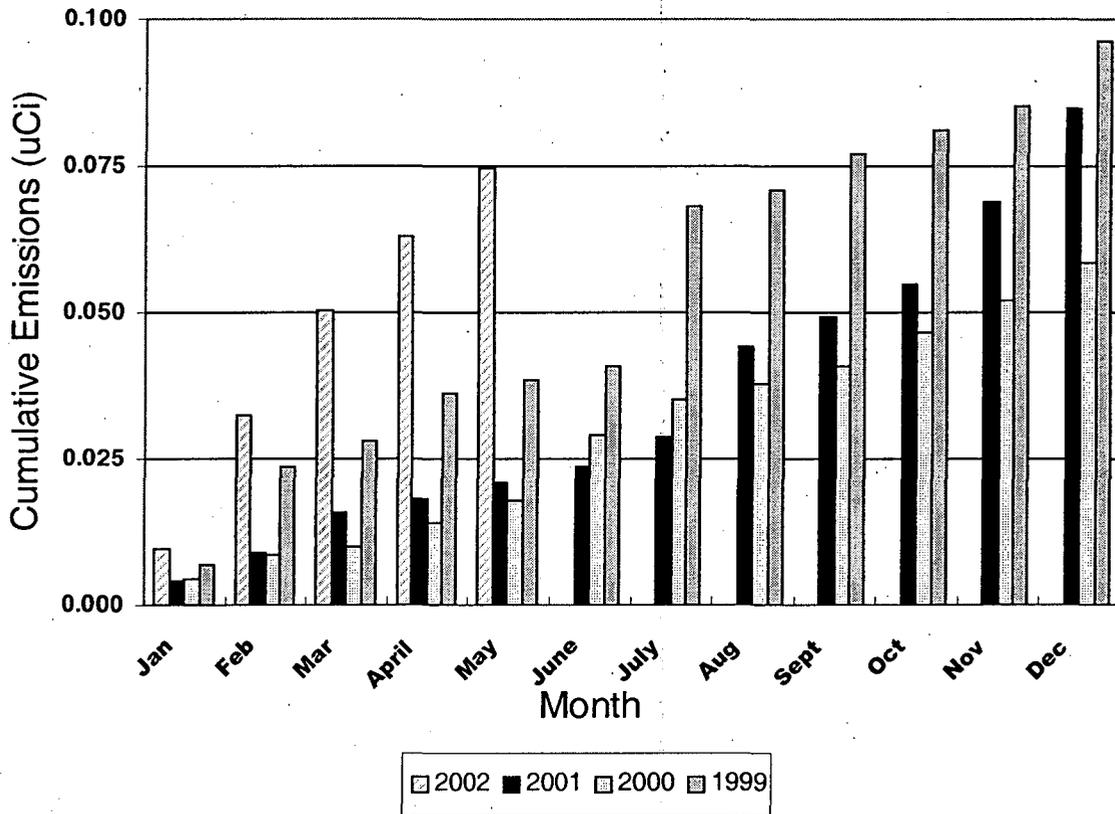
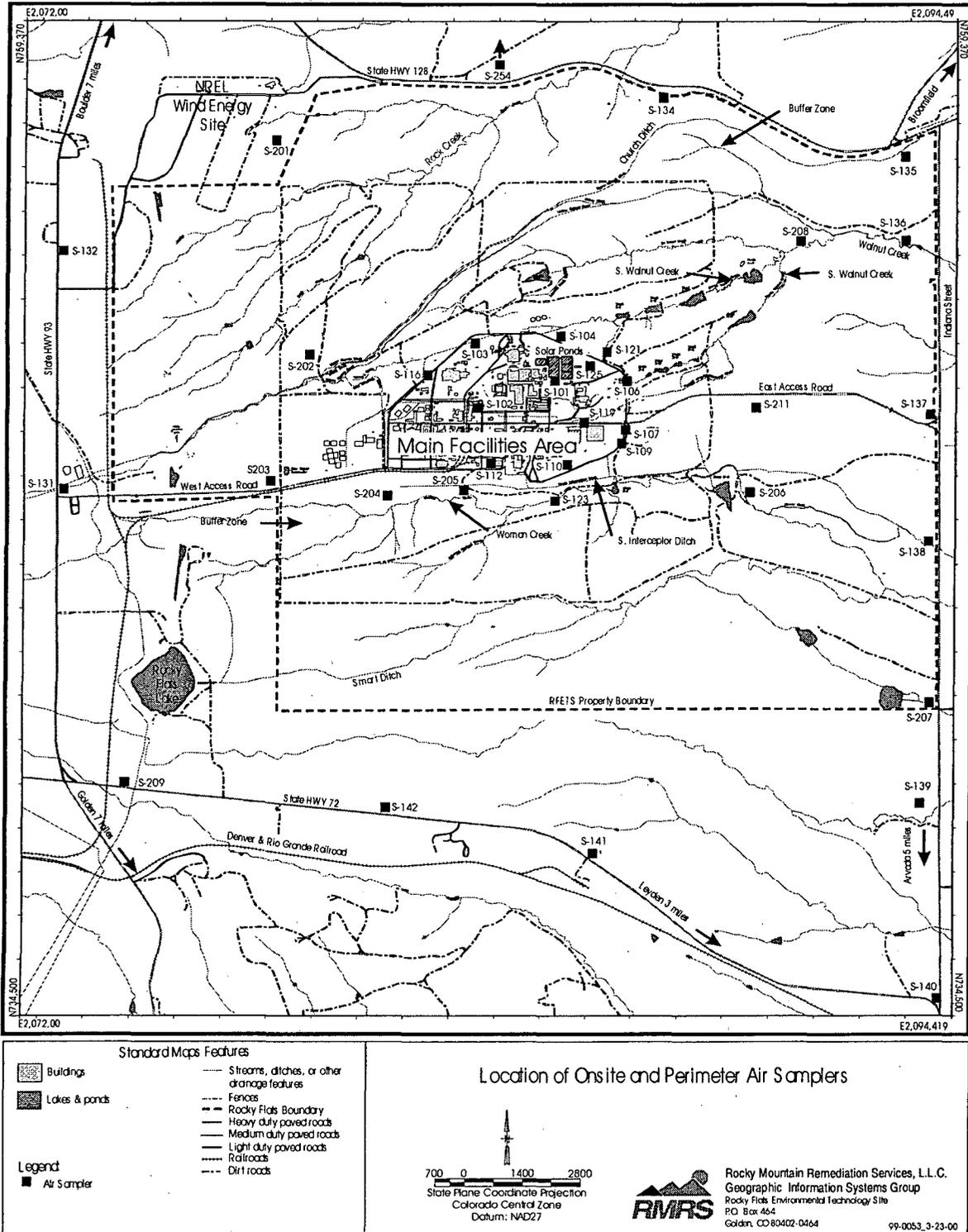


Figure 2-1 Cumulative Plutonium Airborne Effluent Emissions

The above graph shows the cumulative airborne effluent emissions of plutonium from the Site building stacks. Results from the most recently analyzed effluent stack samples (February through May 2002) were slightly elevated in comparison to previously measured plutonium concentrations, with a cumulative, year-to-date plutonium emission of 0.075 micro curies (μCi).

Americium and uranium emissions for February and March 2002 were consistent with the levels seen in the previous three years.

Map 2-1. Location of Onsite and Perimeter Air Samplers



3.0 AMBIENT AIR DATA

3.1.1 Perimeter Sampler Locations

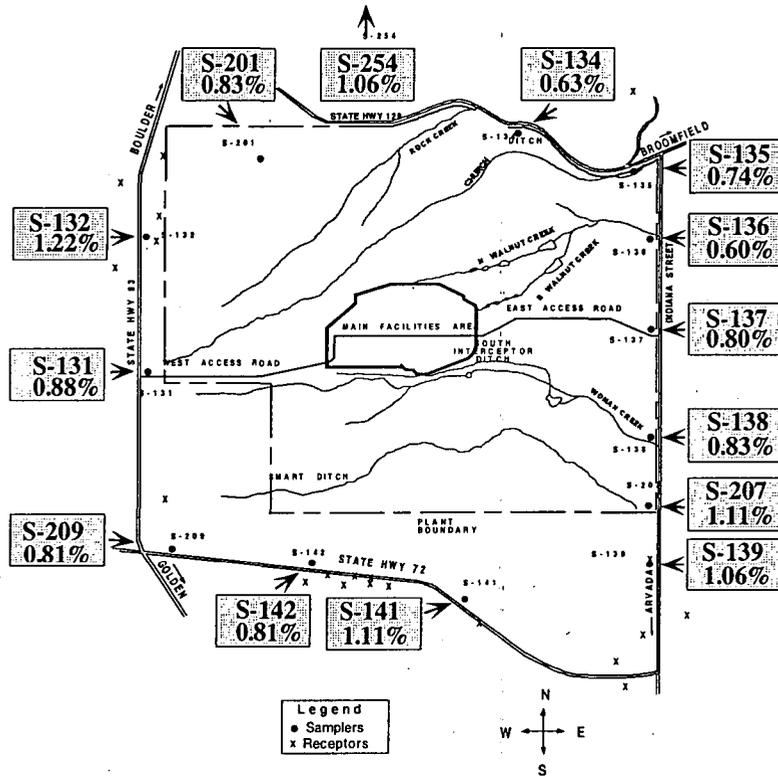


Figure 3-1. Perimeter Samplers Dose Map

The above map illustrates the perimeter Radioactive Ambient Air Monitoring Program (RAAMP) sampler locations and the twelve-month rolling-average maximum potential dose through May 2002, expressed as a percentage of EPA's air concentration-based dose limit for members of the public. The percentage values are based on the measured air concentrations, averaged over the year and converted as a percent of the Rad NESHAP concentration limits.

The percentages include the naturally occurring uranium isotopes as well as the isotopes from site contributions. The highest effective dose equivalents (EDEs) in February, March and April were observed at locations S-254, S-137 and S-139, respectively. For the twelve-month rolling-average percentage of the Rad NESHAP concentration limit through May 2002, perimeter samplers range from 0.60% at S-136 (northeast corner of Site) to 1.22% at S-132, consistent with previously reported data.

3.1.2 Perimeter Sampler Locations – Dose Rate Graphs

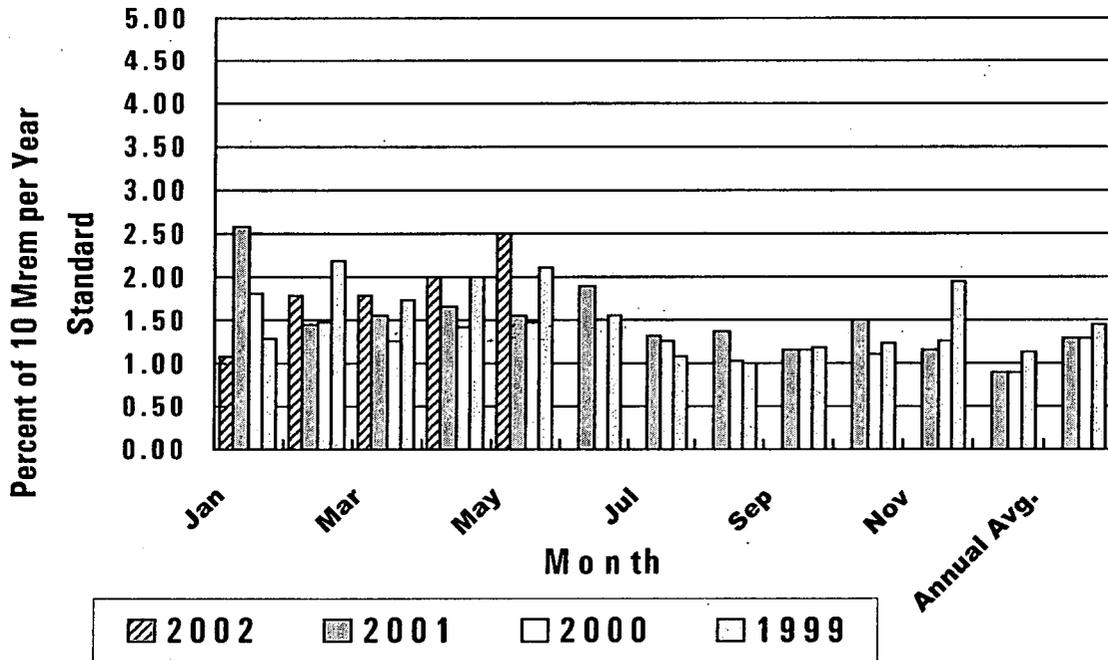


Figure 3-2. Offsite Dose Rate Summary

The above graph illustrates the monthly estimated maximum potential dose rates at the perimeter sampler showing the highest total radionuclide concentrations, including contributions from naturally occurring uranium isotopes. The highest potential dose rates for February, March, April and May 2002 were at locations S-254, S-137, S-139 and S-207, respectively.

2.2.2 Perimeter Sampler Locations – Dose Rate Graphs, continued

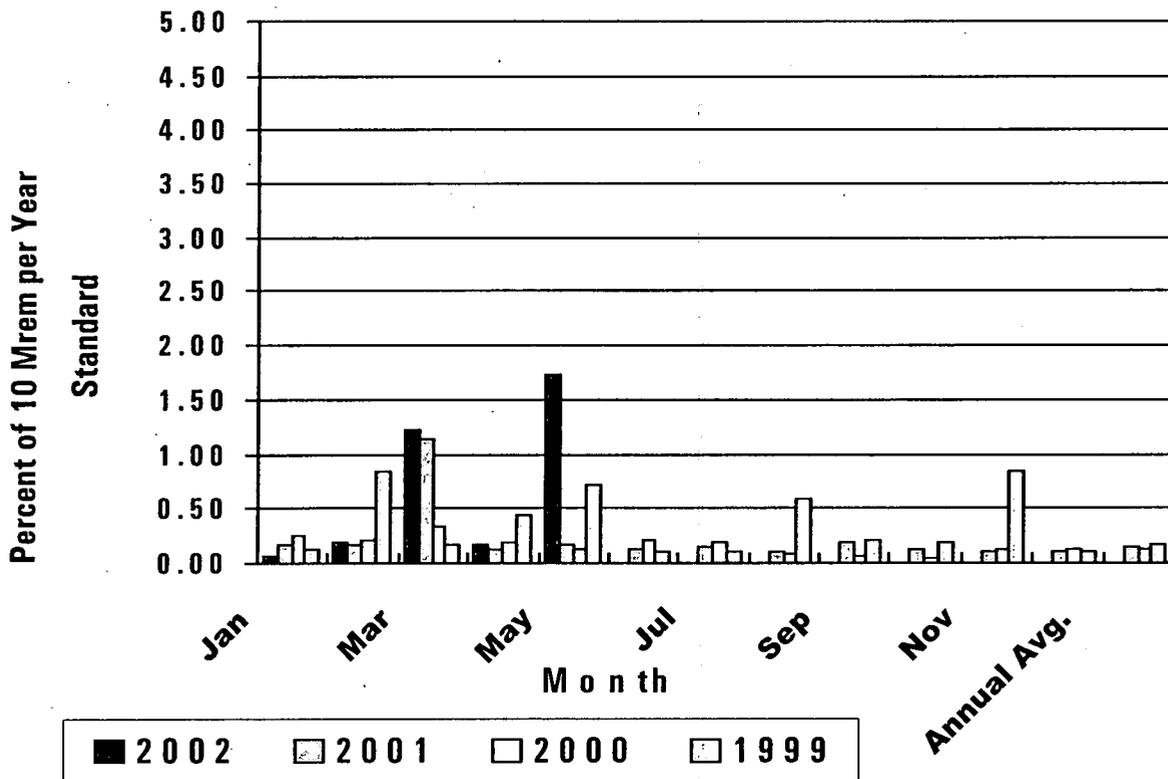


Figure 3-3. Offsite Dose Rate Summary Without U-234 and U-238

Omitting the dose contributions from uranium 234 and 238 may better reflect the contribution from Site operations at the same sampling locations, since uranium occurs naturally in Colorado soils. This view displays the maximum offsite dose rate thus far in 2002, resulting from Site activities, to be less than 1.7% percent of the 10 mrem standard. The highest potential dose rates for February, March, April and May 2002 were at locations S-138, S-137, S-137 and S-207, respectively.

Ambient concentrations and dose rates for 2002 are consistent with data from 1999 through 2001.

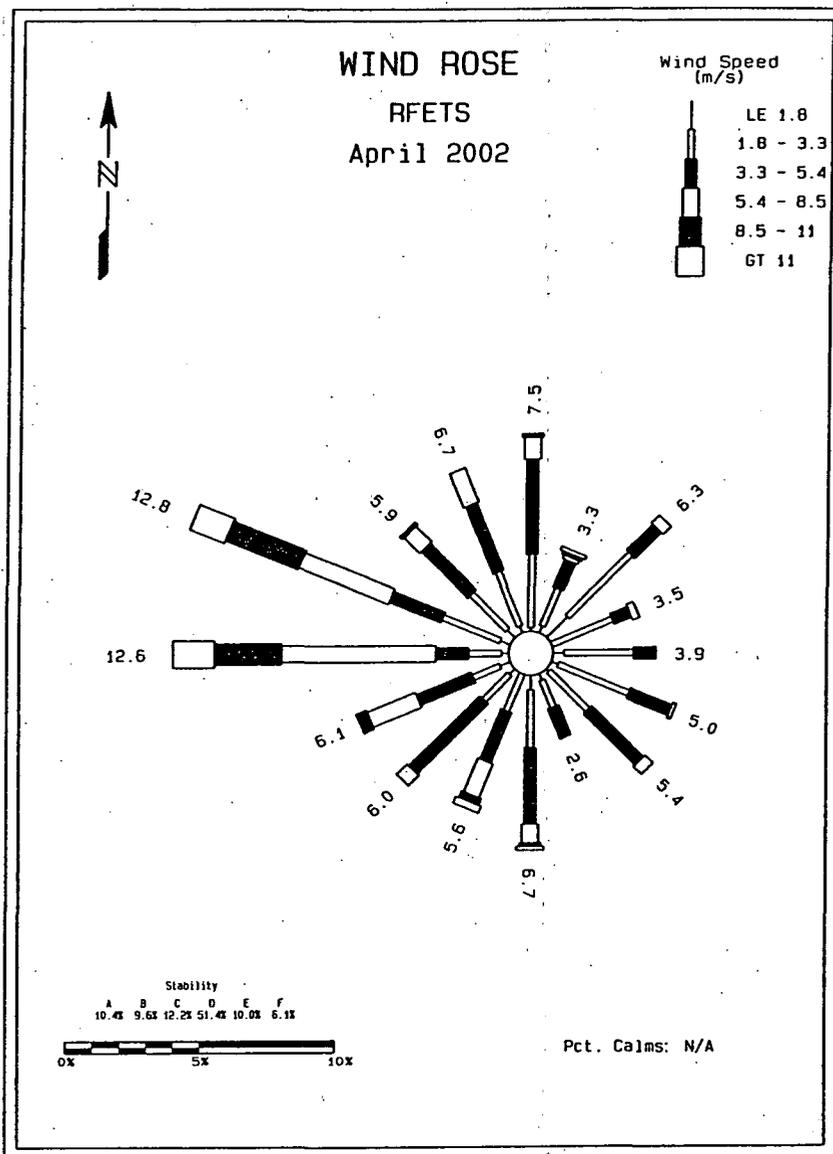
3.1.3 Demolition and Remediation Project Specific Air Monitoring

In February 2002, the Air Quality Monitoring (AQM) Program began using this format to present performance monitoring data from ongoing demolition and remediation projects. Performance Monitoring for Radionuclides (PM-Rad) for Building 886 demolition began on March 10th and continued through May 1st. Data for this project was presented in the First Quarter Report for 2002. No other projects with significant potential for radionuclide emissions occurred during the second quarter of 2002.

For reference, a map illustrating the sampling locations used for PM-Rad of Industrial Area demolition and remediation activities will be handed out at the time of the meeting.

4.0 METEOROLOGY AND CLIMATOLOGY

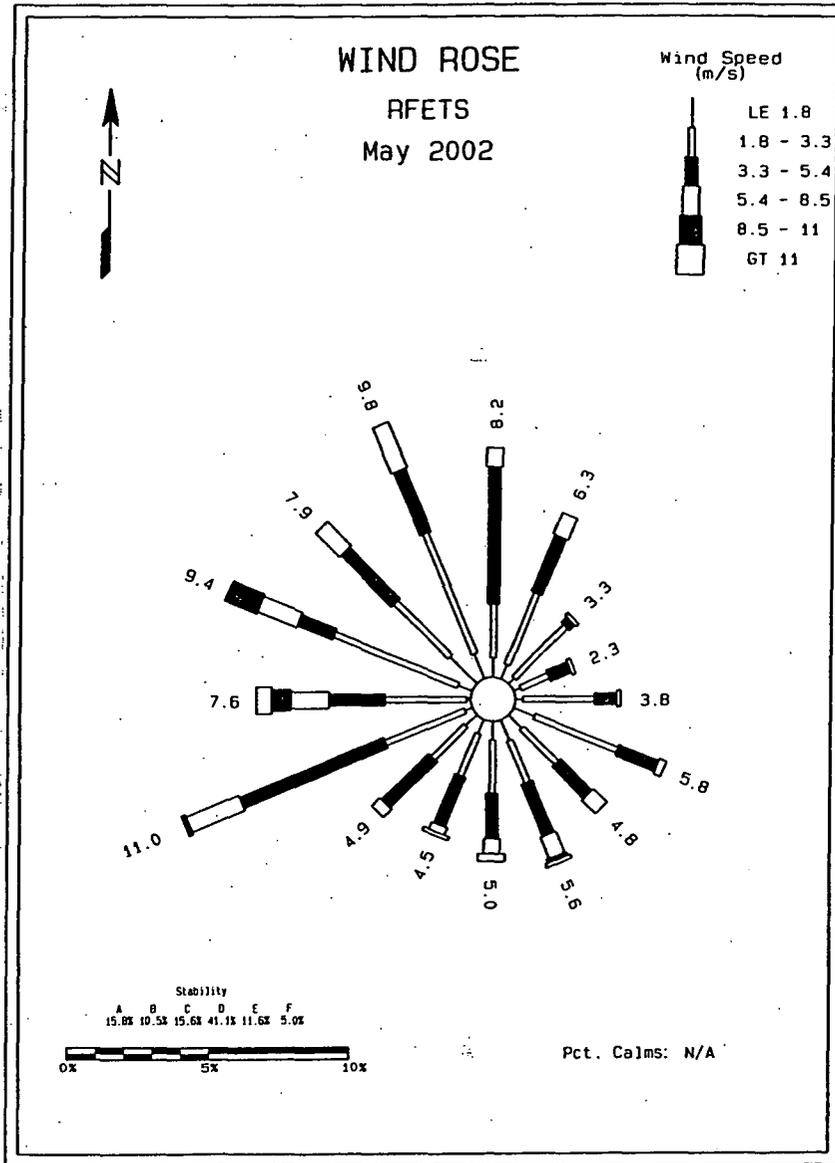
4.1 WIND ROSES FOR APRIL, MAY, AND JUNE 2002



Monthly Climatic Summary

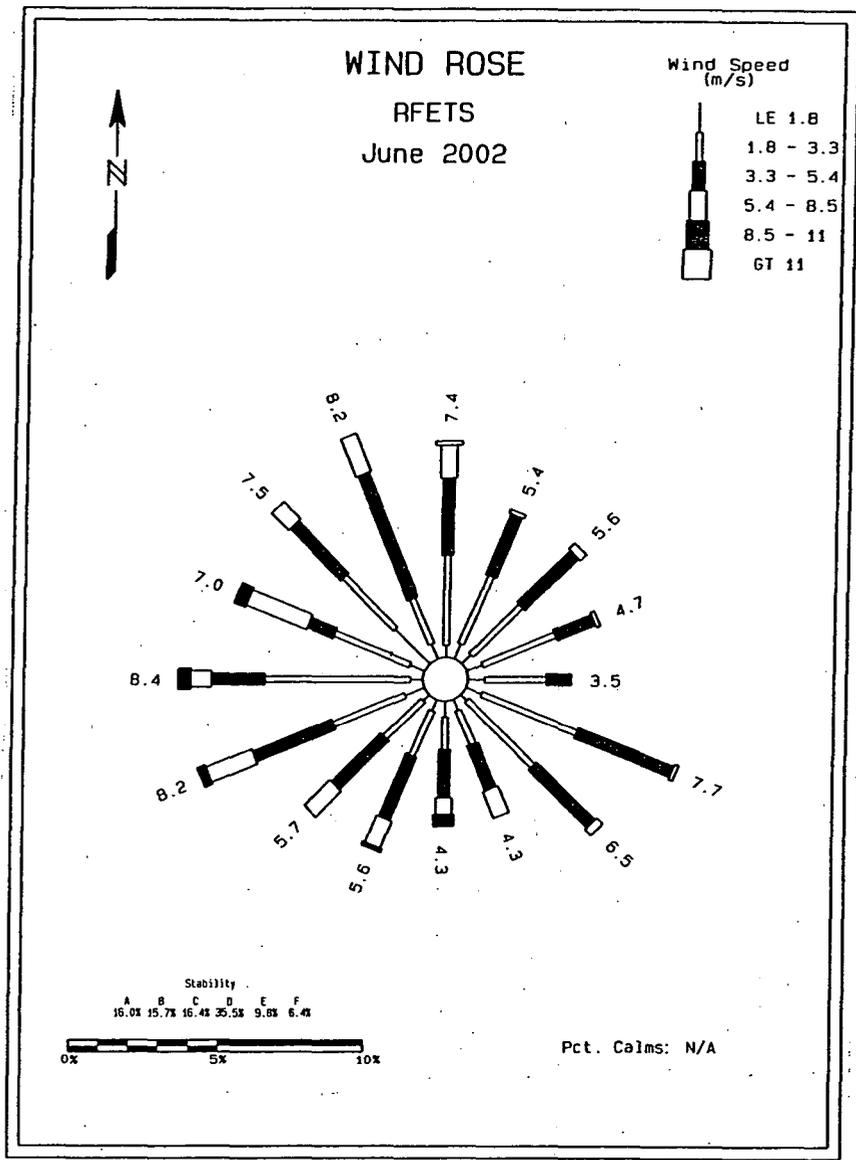
Month	Temperature (°F)			Mean Dew Point (°F)	Mean Relative Humidity (%)	Wind Speed (mph)		Pressure (mb)	Solar Total (kW-h/m ²)	Precipitation (in)	
	Mean Daily High	Mean Daily Low	Daily Mean			Mean	Max			Total	Max
Apr-02	61.21	36.82	49.6	33.3	59.5	10.6	66.3	811.0	169.6	0.10	0.02

Figure 4-1. Wind Rose for Rocky Flats Environmental Technology Site for April 2002



Monthly Climatic Summary											
Month	Temperature (°F)			Mean Dew Point (°F)	Mean Relative Humidity (%)	Wind Speed (mph)		Pressure (mb)	Solar Total (kW-h/m ²)	Precipitation (in)	
	Mean Daily High	Mean Daily Low	Daily Mean			Mean	Max			Total	Max
May-02	65.03	42.03	53.76	39.4	66.5	8.5	60.2	812.8	165.1	3.48	0.15

Figure 4-2. Wind Rose for Rocky Flats Environmental Technology Site for May 2002



Monthly Climatic Summary											
Month	Temperature (°F)			Mean Dew Point (°F)	Mean Relative Humidity (%)	Wind Speed (mph)		Pressure (mb)	Solar Total (kW-h/m ²)	Precipitation (in)	
	Mean Daily High	Mean Daily Low	Daily Mean			Mean	Max			Total	Max
	Jun-02	80.98	58.12			70.23	46.1			49.0	8.3

Figure 4-3. Wind Rose for Rocky Flats Environmental Technology Site for June 2002

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5.0 SURFACE WATER DATA

Map 5-1. Holding Ponds and Liquid Effluent Water Courses

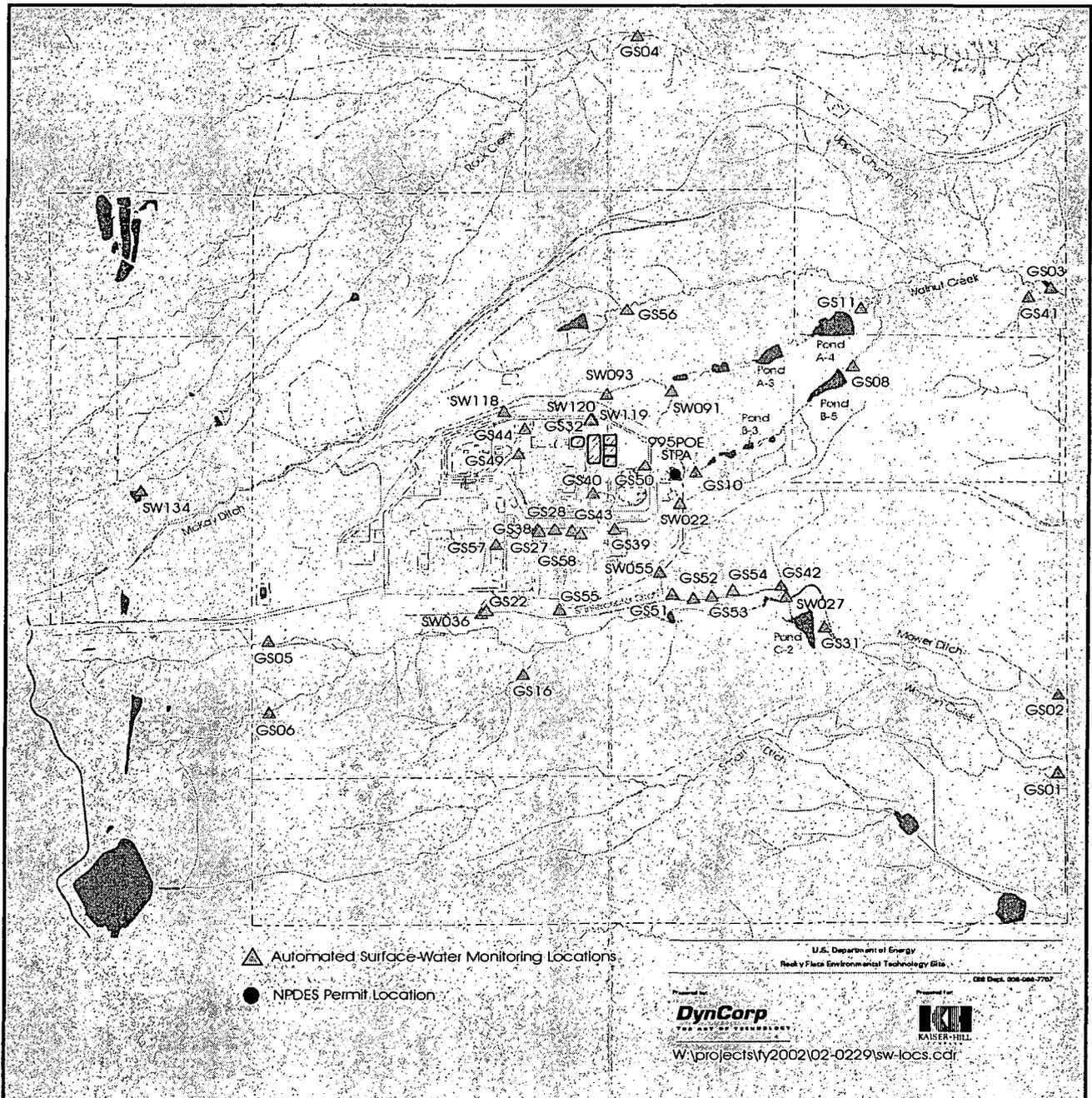


Table 4-1. Sewage Treatment Plant (Outfall STP1), continued

Parameter & Units	Measured 30-day Average	Limit 30-Day Average	Measured 7-Day Average	Limit 7-Day Average	Measured Daily Minimum	Limit Daily Minimum	Measured Daily Maximum	Limit Daily Maximum	Measured Result	% Removal (calc.)	% Removal Minimum
Gross alpha, pCi/l	< 1	11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gross beta, pCi/l	5 - 6	19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ceriodaphnia Acute test	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	PASS	N/A	N/A
Fathead Minnows Acute test	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	PASS	N/A	N/A
Ceriodaphnia Chronic test	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	PASS	N/A	N/A
Fathead Minnows Chronic test	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	PASS	N/A	N/A
Carbon tetrachloride, ug/l	< 1	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2 dichloroethane, ug/l	< 1	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene, ug/l	< 1	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1 dichloroethylene, ug/l	< 1	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,1 trichloroethane, ug/l	< 1	200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2 dichloroethylene (trans), ug/l	< 1	70	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trichloroethylene, ug/l	< 1	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tetrachloro-ethylene, ug/l	< 1	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

N/A Not Applicable

NS Not sampled

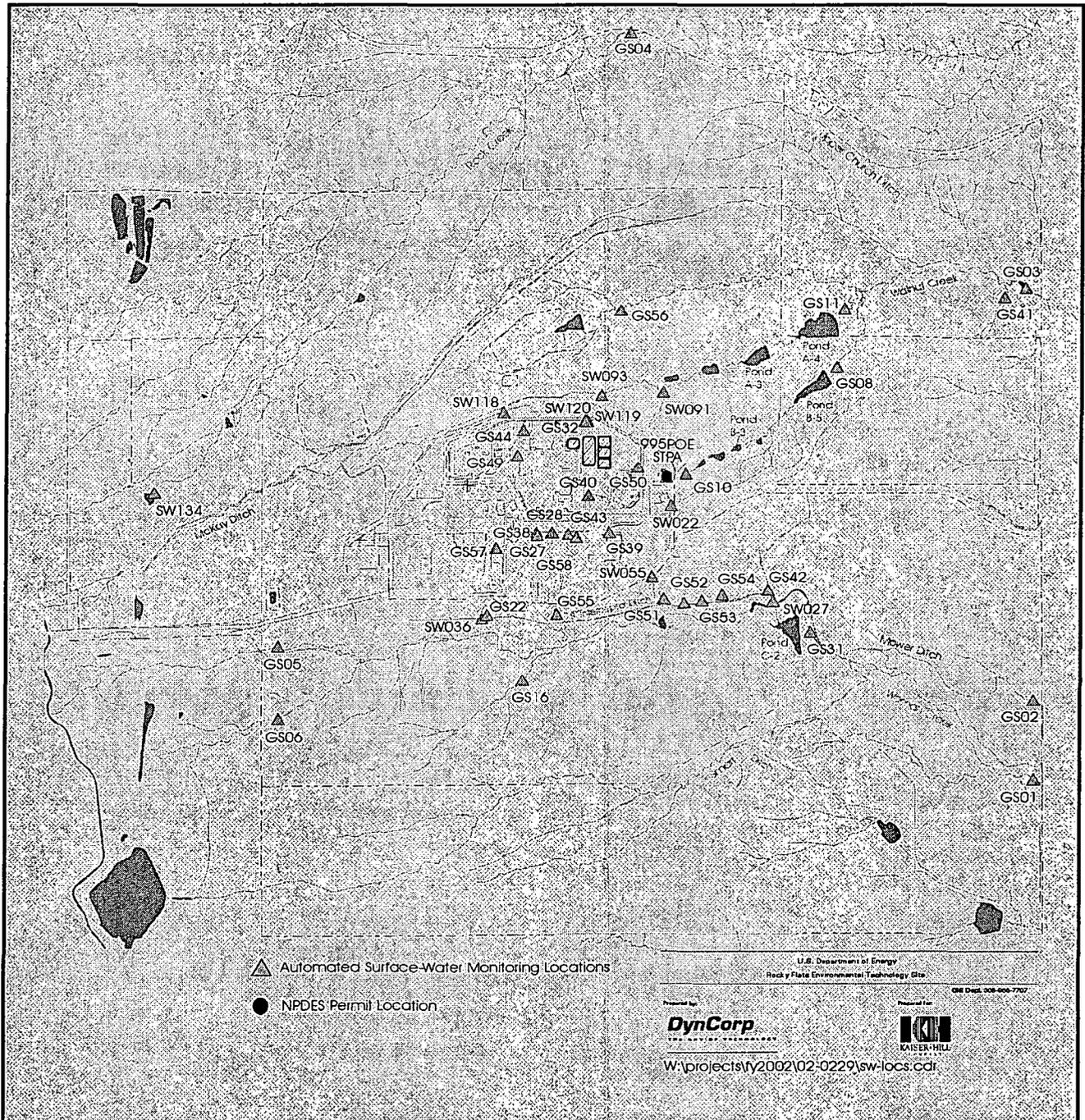
5.2 MOUND PLUME SUMMARY DATA

Table 5-2. Mound Plume Locations SW061 and SW132

Analyte	SW061	SW132
	06/03/02	06/03/02
Pu 239/240, pCi/l	0.005 +/- 0.009	0.004 +/- 0.009
Am 241, pCi/l	0.000 +/- 0.006	0.018 +/- 0.015
Silver, dissolved, ug/l	< 0.12	< 0.12
Aluminum, total, ug/l	19.9	84.7
Arsenic, total, ug/l	< 0.62	2.7
Barium, total, ug/l	343	308
Beryllium, total, ug/l	< 0.10	< 0.10
Cadmium, dissolved, ug/l	2.1	0.17
Copper, dissolved, ug/l	0.35	1.1
Iron, total, ug/l	187	266
Mercury, total, ug/l	< 0.10	< 0.10
Manganese, total, ug/l	43.3	97.2
Nickel, dissolved, ug/l	1.3	1.8
Lead, dissolved, ug/l	< 0.42	0.88
Antimony, total, ug/l	< 0.55	2.7
Selenium, dissolved, ug/l	< 0.88	2.6
Zinc, dissolved, ug/l	35.9	39.6
EPA VOA Method 8260, compounds found >RFCA Seg 5 Action Level	None detected	None detected

6.0 HYDROLOGIC AND ROCKY FLATS CLEAN-UP AGREEMENT (RFCA) DATA

Map 6-1. Gaging Station Locations



6.1 FLOW MONITORING

Table 6-1. Gaging Station GS01: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.069	0.000	0.031
2	0.057	0.000	0.025
3	0.059	0.000	0.021
4	0.054	0.000	0.025
5	0.051	0.000	0.022
6	0.052	0.000	0.017
7	0.049	0.000	0.012
8	0.045	0.000	0.009
9	0.042	0.000	0.000
10	0.041	0.000	0.000
11	0.038	0.000	0.000
12	0.034	0.000	0.000
13	0.030	0.000	0.000
14	0.028	0.000	0.000
15	0.028	0.000	0.000
16	0.025	0.000	0.000
17	0.025	0.000	0.000
18	0.020	0.000	0.000
19	0.016	0.000	0.000
20	0.016	0.005	0.000
21	0.015	0.018	0.000
22	0.013	0.017	0.000
23	0.009	0.023	0.000
24	0.007	1.656	0.000
25	0.006	1.854	0.000
26	0.004	0.734	0.000
27	0.000	0.325	0.000
28	0.000	0.184	0.000
29	0.000	0.110	0.000
30	0.000	0.065	0.000
31	NA	0.040	NA
Monthly Average (cfs)	0.028	0.162	0.005

Monthly Discharge

Cubic Feet	71808	434645	13917
Gallons	537162	3251367	104107
Acre-Feet	1.65	9.98	0.32

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging Station GS01 is located at 39° 52' 40"N, 105° 09' 55"W, at Woman Creek and Indiana Street (See Section 4 Map). This station is a RFCA Point of Compliance, a Buffer Zone Monitoring Location and a monitoring point for water leaving the Site and flowing to Woman Creek Reservoir. This station collects samples for selected radionuclides using continuous flow-paced sampling and storm event sampling for selected water quality parameters, metals, and major ions.

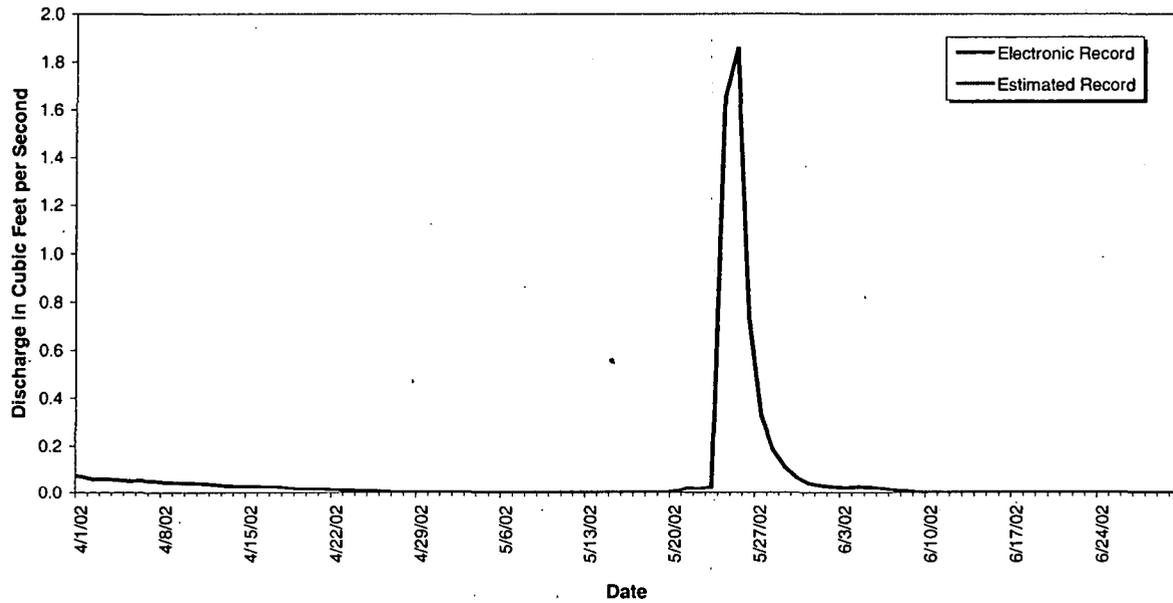


Figure 6-1. Mean Daily Discharge at GS01, Water Year 2002 (April, May, and June)

Table 6-2. Gaging Station GS02: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.000	0.000	0.000
2	0.000	0.000	0.000
3	0.000	0.000	0.000
4	0.000	0.000	0.000
5	0.000	0.000	0.000
6	0.000	0.000	0.000
7	0.000	0.000	0.000
8	0.000	0.000	0.000
9	0.000	0.000	0.000
10	0.000	0.000	0.000
11	0.000	0.000	0.000
12	0.000	0.000	0.000
13	0.000	0.000	0.000
14	0.000	0.000	0.000
15	0.000	0.000	0.000
16	0.000	0.000	0.000
17	0.000	0.000	0.000
18	0.000	0.000	0.000
19	0.000	0.000	0.000
20	0.000	0.000	0.000
21	0.000	0.000	0.000
22	0.000	0.000	0.000
23	0.000	0.000	0.000
24	0.000	0.000	0.000
25	0.000	0.000	0.000
26	0.000	0.000	0.000
27	0.000	0.000	0.000
28	0.000	0.000	0.000
29	0.000	0.000	0.000
30	0.000	0.000	0.000
31	NA	0.000	NA
Monthly Average (cfs)	0.000	0.000	0.000

Monthly Discharge

Cubic Feet	0	0	0
Gallons	0	0	0
Acre-Feet	0.00	0.00	0.00

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Buffer Zone Hydrologic monitoring location GS02 is located at state plane 2093817, 746302 on Mower Ditch 200 feet west of Indiana Street. This station monitors runoff from an area north of Mower Ditch between Pond C-2 and Indiana Street. The GS02 drainage area is approximately 157.7 acres. This station collects samples for sediment/sand, Ca, Mg, Na, K, Cl, F, SO₄, HCO₃, and TSS using storm-event, rising-limb, flow-paced composite sampling.

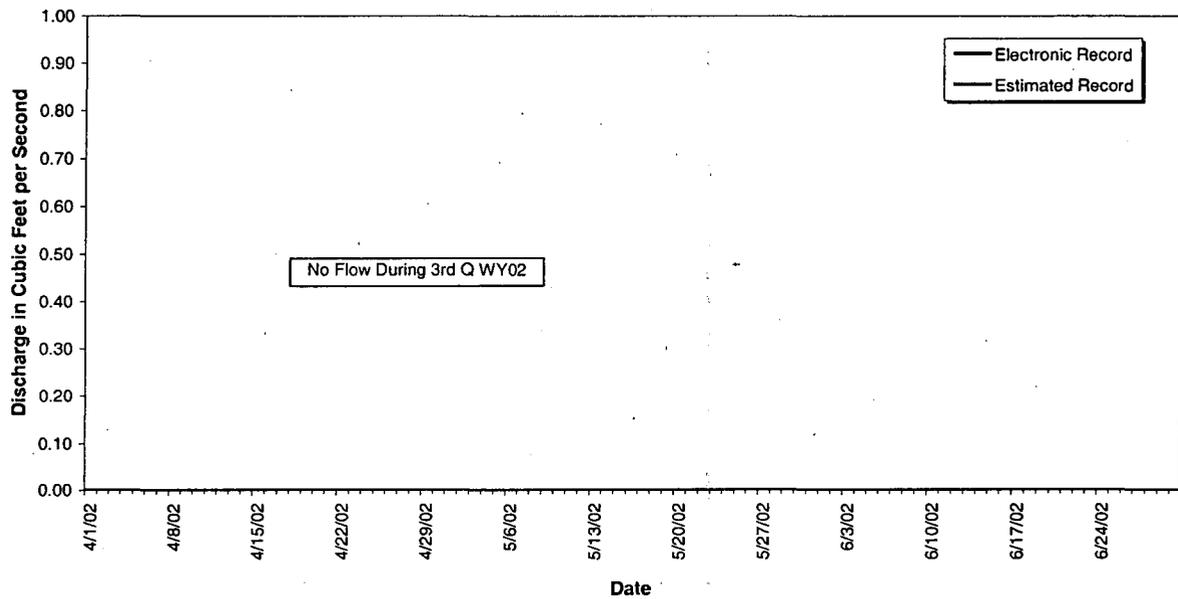


Figure 6-2. Mean Daily Discharge at GS02, Water Year 2002 (April, May, and June)

Table 6-3. Gaging Station GS03: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.741	0.000	0.966
2	0.242	0.000	0.714
3	0.004	0.000	0.310
4	0.001	0.000	0.008
5	0.002	0.000	0.002
6	0.002	0.000	0.001
7	0.003	0.000	0.001
8	0.003	0.000	0.000
9	0.003	0.000	0.000
10	0.002	0.000	0.000
11	0.002	0.000	0.000
12	0.003	0.000	0.000
13	0.002	0.000	0.000
14	0.001	0.000	0.000
15	0.001	0.000	0.000
16	0.000	1.410	0.000
17	0.001	3.179	0.000
18	0.000	3.467	0.000
19	0.001	2.928	0.000
20	0.003	2.562	0.000
21	0.001	2.105	0.000
22	0.000	1.728	0.000
23	0.000	1.378	0.000
24	0.000	1.779	0.000
25	0.000	0.451	0.000
26	0.000	0.747	0.000
27	0.000	1.318	0.000
28	0.000	1.210	0.000
29	0.000	1.141	0.000
30	0.000	1.112	0.000
31	NA	1.123	NA
Monthly Average (cfs)	0.034	0.892	0.067

Monthly Discharge

Cubic Feet	87985	2387864	173072
Gallons	658176	17862463	1294671
Acre-Feet	2.02	54.82	3.97

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging Station GS03 is located at 39° 54' 7"N, 105° 9' 59"W, at Walnut Creek and Indiana Street (See Section 4 Map). This station is a RFCA Point of Compliance, a Buffer Zone Monitoring Location and a monitoring point for water leaving the Site and flowing to the Broomfield Diversion Ditch. This station collects samples for selected radionuclides using continuous flow-paced sampling and storm event sampling for selected water quality parameters, metals, and major ions.

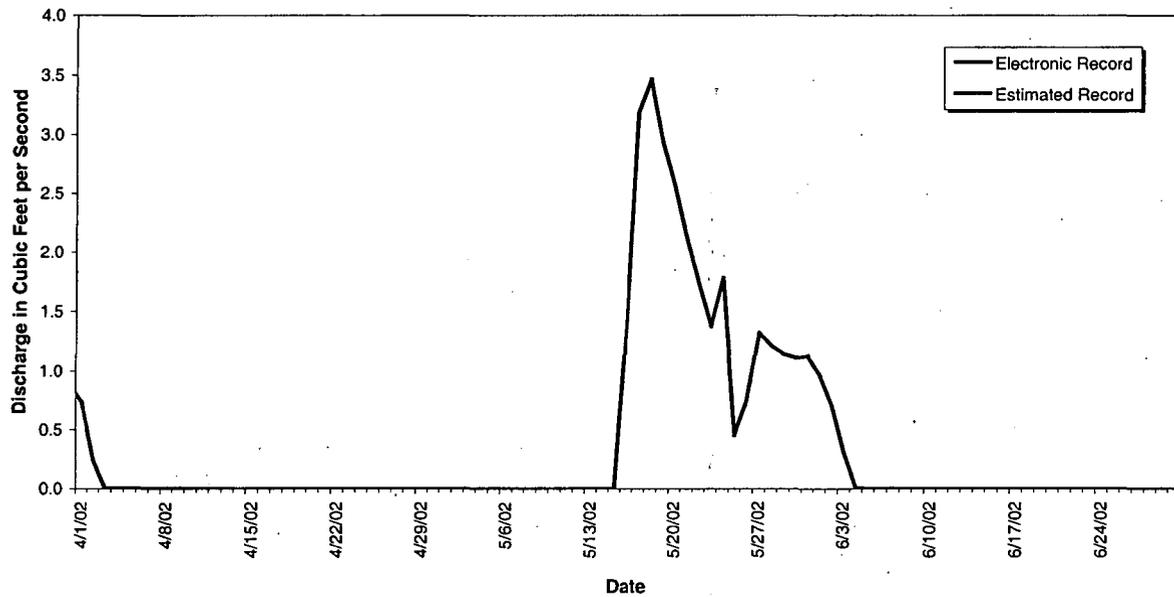


Figure 6-3. Mean Daily Discharge at GS03, Water Year 2002 (April, May, and June)

Table 6-4. Gaging Station GS04: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.172	0.047	0.097
2	0.149	0.051	0.072
3	0.150	0.067	0.056
4	0.149	0.080	0.051
5	0.140	0.078	0.042
6	0.145	0.067	0.047
7	0.141	0.056	0.043
8	0.138	0.045	0.036
9	0.136	0.038	0.020
10	0.137	0.038	0.000
11	0.134	0.041	0.000
12	0.127	0.177	0.000
13	0.116	0.194	0.000
14	0.109	0.167	0.000
15	0.099	0.135	0.000
16	0.091	0.125	0.000
17	0.083	0.207	0.000
18	0.075	0.178	0.000
19	0.070	0.146	0.000
20	0.070	0.135	0.000
21	0.074	0.119	0.000
22	0.082	0.111	0.000
23	0.075	0.103	0.000
24	0.063	2.276	0.000
25	0.056	1.274	0.000
26	0.054	0.566	0.000
27	0.054	0.328	0.000
28	0.056	0.229	0.000
29	0.056	0.179	0.000
30	0.048	0.145	0.000
31	NA	0.121	NA
Monthly Average (cfs)	0.102	0.243	0.015

Monthly Discharge

Cubic Feet	263454	649912	39991
Gallons	1970771	4861681	299153
Acre-Feet	6.05	14.92	0.92

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Buffer Zone Hydrologic monitoring location GS04 is located at state plane 2085568, 758145 on Rock Creek 300 feet upstream of the box culvert under Hwy. 128. This station monitors runoff from the Rock Creek drainage in the northwest Buffer Zone. The GS04 drainage area is approximately 1500 acres. This station collects samples for sediment/sand, Ca, Mg, Na, K, Cl, F, SO₄, HCO₃, and TSS using storm-event, rising-limb, flow-paced composite sampling.

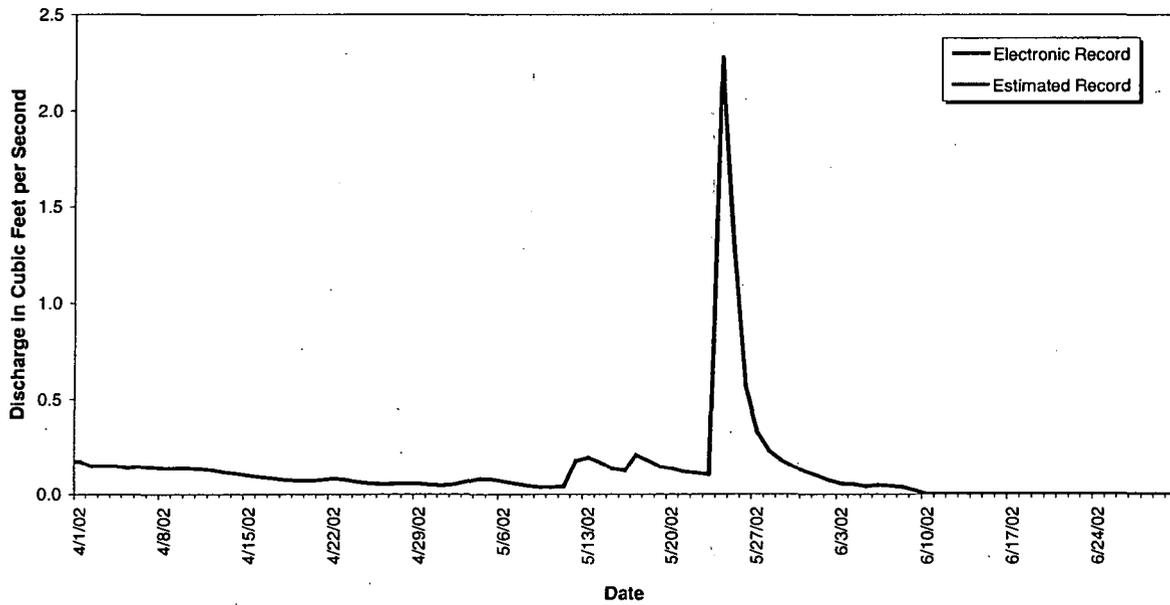


Figure 6-4. Mean Daily Discharge at GS04, Water Year 2002 (April, May, and June)

Table 6-5. Gaging Station GS05: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.032	0.011	0.020
2	0.030	0.011	0.016
3	0.035	0.011	0.012
4	0.033	0.010	0.046
5	0.032	0.011	0.018
6	0.032	0.010	0.016
7	0.031	0.010	0.015
8	0.030	0.010	0.013
9	0.030	0.009	0.012
10	0.029	0.007	0.010
11	0.031	0.011a	0.009
12	0.030	0.025a	0.007
13	0.029	0.013a	0.006
14	0.027	0.012a	0.005
15	0.025	0.011a	0.004
16	0.024	0.015a	0.004
17	0.021	0.019a	0.003
18	0.018	0.013a	0.002
19	0.016	0.012a	0.001
20	0.016	0.010a	0.001
21	0.017	0.016	0.000
22	0.015	0.012	0.000
23	0.015	0.069	0.000
24	0.013	0.850	0.000
25	0.012	0.361	0.000
26	0.012	0.085	0.000
27	0.013	0.043	0.000
28	0.012	0.037	0.000
29	0.012	0.035	0.000
30	0.011	0.030	0.000
31	NA	0.025	NA
Monthly Average (cfs)	0.023	0.058	0.007

Monthly Discharge

Cubic Feet	58990	155776	19027
Gallons	441276	1165285	142333
Acre-Feet	1.35	3.58	0.44

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

^a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Buffer Zone Hydrologic monitoring location GS05 is located at state plane 2078428, 747260 on Woman Creek 320 feet east of the west Buffer Zone fence. This station monitors runoff from the Woman Creek drainage southwest of the Site including areas west of Hwy. 93. This station collects samples for sediment/sand, Ca, Mg, Na, K, Cl, F, SO₄, HCO₃, and TSS using storm-event, rising-limb, flow-paced composite sampling.

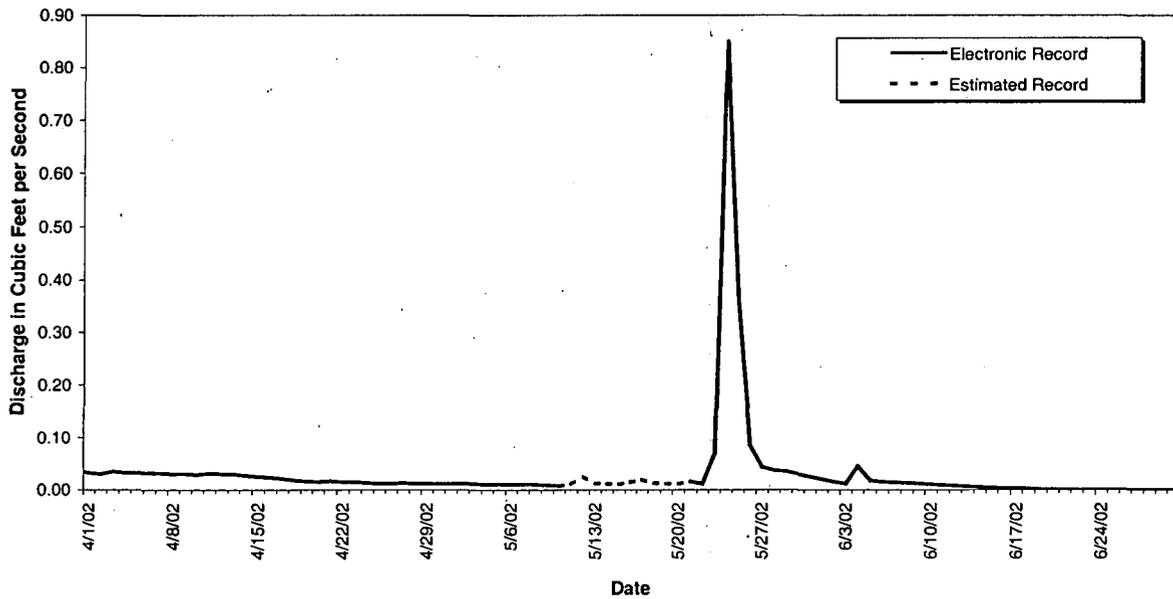


Figure 6-5. Mean Daily Discharge at GS05, Water Year 2002 (April, May, and June)

Table 6-6. Gaging Station GS06: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.0021	0.0003	0.0031
2	0.0019	0.0010	0.0022
3	0.0021	0.0000	0.0030
4	0.0020	0.0000	0.0052
5	0.0019	0.0000	0.0028
6	0.0020	0.0000	0.0014
7	0.0018	0.0000	0.0009
8	0.0018	0.0000	0.0012
9	0.0016	0.0000	0.0007
10	0.0018	0.0000	0.0000
11	0.0015	0.0011	0.0000
12	0.0015	0.0039	0.0000
13	0.0008	0.0010	0.0000
14	0.0000	0.0006	0.0000
15	0.0003	0.0005	0.0000
16	0.0001	0.0016	0.0000
17	0.0000	0.0022	0.0000
18	0.0000	0.0013	0.0000
19	0.0000	0.0009	0.0000
20	0.0007	0.0015	0.0000
21	0.0005	0.0011	0.0000
22	0.0003	0.0000	0.0000
23	0.0000	0.0091	0.0000
24	0.0000	0.0527	0.0000
25	0.0000	0.0229	0.0000
26	0.0000	0.0076	0.0000
27	0.0000	0.0054	0.0000
28	0.0000	0.0046	0.0000
29	0.0000	0.0039	0.0000
30	0.0000	0.0034	0.0000
31	NA	0.0032	NA
Monthly Average (cfs)	0.0008	0.0042	0.0007

Monthly Discharge

Cubic Feet	2139	11207	1770
Gallons	16003	83835	13240
Acre-Feet	0.05	0.26	0.04

Note: Mean flow values are reported to the nearest 0.001 cfs; values less than 0.0005 cfs are reported as zero.

Buffer Zone Hydrologic monitoring location GS06 is located at state plane 2078449, 745968 on the Owl Branch to Woman Creek 330 feet east of the west Buffer Zone fence. This station monitors runoff from the area northeast of Rocky Flats Lake. This station collects samples for sediment/sand, Ca, Mg, Na, K, Cl, F, SO₄, HCO₃, and TSS using storm-event, rising-limb, flow-paced composite sampling.

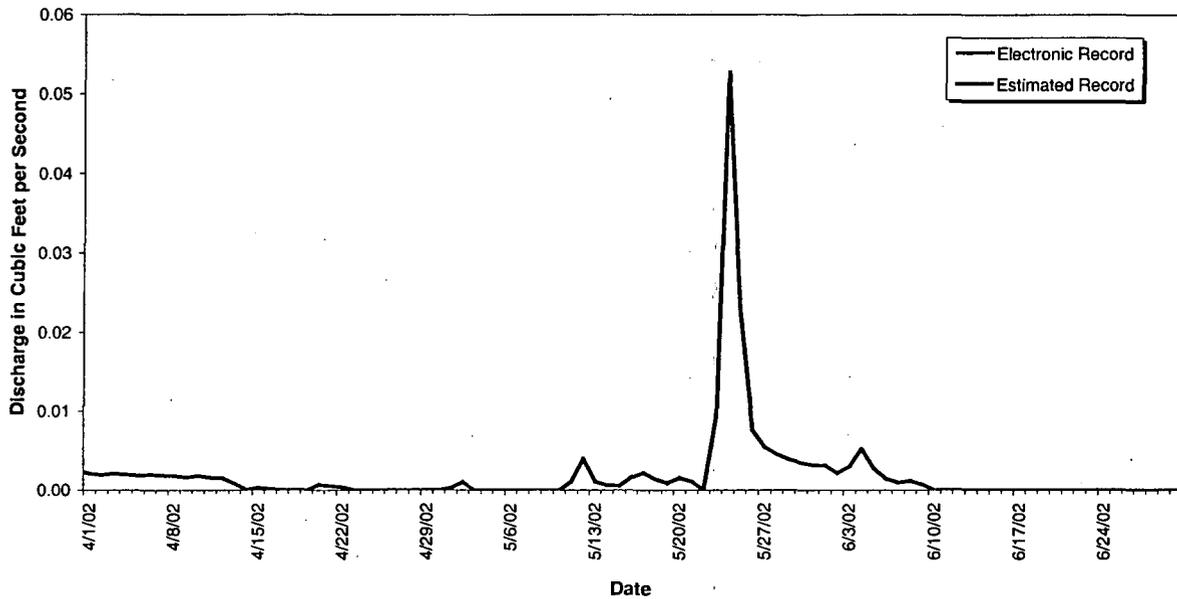


Figure 6-6. Mean Daily Discharge at GS06, Water Year 2002 (April, May, and June)

Table 6-7. Gaging Station GS08: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.997	0.000	1.331
2	0.208	0.000	0.956
3	0.000	0.000	0.295
4	0.000	0.000	0.000
5	0.000	0.000	0.000
6	0.000	0.000	0.000
7	0.000	0.000	0.000
8	0.000	0.000	0.000
9	0.000	0.000	0.000
10	0.000	0.000	0.000
11	0.000	0.000	0.000
12	0.000	0.000	0.000
13	0.000	0.000	0.000
14	0.000	0.000	0.000
15	0.000	0.000	0.000
16	0.000	1.246	0.000
17	0.000	1.953	0.000
18	0.000	2.411	0.000
19	0.000	2.242	0.000
20	0.000	1.716	0.000
21	0.000	1.535	0.000
22	0.000	1.563	0.000
23	0.000	1.667	0.000
24	0.000	1.031	0.000
25	0.000	0.000	0.000
26	0.000	1.187	0.000
27	0.000	1.776	0.000
28	0.000	1.623	0.000
29	0.000	1.572	0.000
30	0.000	1.578	0.000
31	NA	1.575	NA
Monthly Average (cfs)	0.040	0.796	0.086

Monthly Discharge

Cubic Feet	104143	2131799	223123
Gallons	779043	15946963	1669078
Acre-Feet	2.39	48.94	5.12

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging Station GS08 is located 39° 53' 54"N, 105° 10' 48"W, at the Pond B-5 Outfall on South Walnut Creek (See Section 4 Map). This station is a RFCA Point of Compliance and monitors water discharged from Pond B-5 to South Walnut Creek. This station collects samples for selected radionuclides using continuous flow-paced sampling.

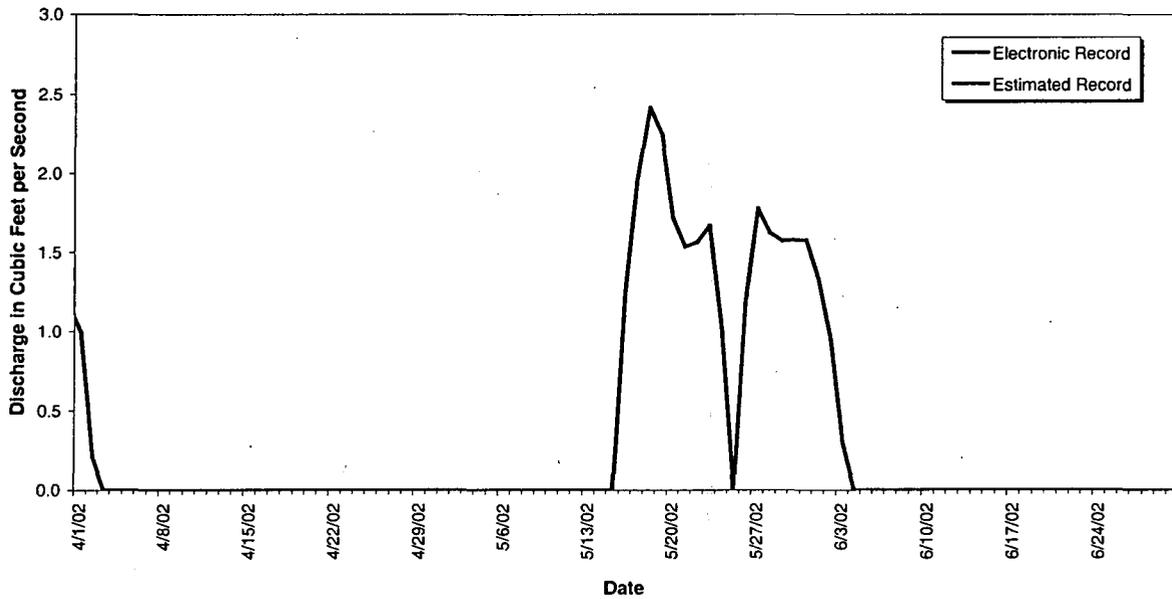


Figure 6-7. Mean Daily Discharge at GS08, Water-Year 2002 (April, May, and June)

Table 6-8. Gaging Station GS10: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.044	0.065	0.061
2	0.042	0.054	0.060
3	0.042	0.028	0.157
4	0.044	0.026	0.407
5	0.046	0.027	0.057
6	0.047	0.026	0.065
7	0.046	0.028	0.056
8	0.044	0.028	0.050
9	0.043	0.027	0.045
10	0.042	0.030	0.041
11	0.050	0.312	0.037
12	0.047	0.520	0.035
13	0.046	0.038	0.035
14	0.045	0.060	0.035
15	0.044	0.035	0.032
16	0.041	0.433	0.032
17	0.039	0.086	0.031
18	0.036	0.042	0.027
19	0.033	0.042	0.153
20	0.046	0.067	0.056
21	0.035	0.043	0.023
22	0.034	0.039	0.026
23	0.030	1.272a	0.024
24	0.029	4.190a	0.024
25	0.027	0.314	0.024
26	0.030	0.097	0.030
27	0.030	0.064	0.030
28	0.029	0.062	0.028
29	0.030	0.060	0.025
30	0.029	0.059	0.023
31	NA	0.060	NA
Monthly Average (cfs)	0.039	0.266	0.058

Monthly Discharge

Cubic Feet	101171	711247	149226
Gallons	756814	5320496	1116286
Acre-Feet	2.32	16.33	3.43

Note: mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

^a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging Station GS10 is located 39° 53' 35"N, 105° 11' 27"W on South Walnut Creek above the Pond B-1 Bypass (See Section 4 Map). This station is a RFCA Action Level Framework and a New Source Detection Location and monitors water leaving the Site Industrial Area and entering the B-Series Ponds and South Walnut Creek. This station collects samples for selected radionuclides, metals, and water quality parameters using continuous flow-paced sampling.

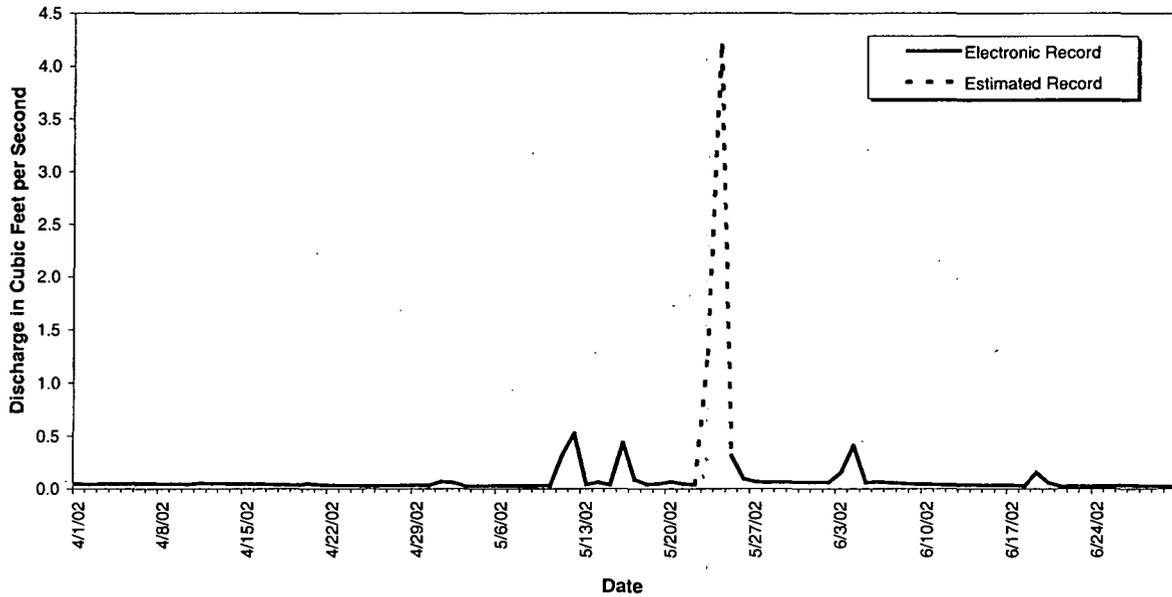


Figure 6-8. Mean Daily Discharge at GS10, Water Year 2002 (April, May, and June)

Table 6-9. Gaging Station GS11: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.000	0.000	0.000
2	0.000	0.000	0.000
3	0.000	0.000	0.000
4	0.000	0.000	0.000
5	0.000	0.000	0.000
6	0.000	0.000	0.000
7	0.000	0.000	0.000
8	0.000	0.000	0.000
9	0.000	0.000	0.000
10	0.000	0.000	0.000
11	0.000	0.000	0.000
12	0.000	0.000	0.000
13	0.000	0.000	0.000
14	0.000	0.000	0.000
15	0.000	0.000	0.000
16	0.000	1.226	0.000
17	0.000	1.851	0.000
18	0.000	1.629	0.000
19	0.000	1.222	0.000
20	0.000	1.372	0.000
21	0.000	1.019	0.000
22	0.000	0.617	0.000
23	0.000	0.067	0.000
24	0.000	0.000	0.000
25	0.000	0.000	0.000
26	0.000	0.000	0.000
27	0.000	0.000	0.000
28	0.000	0.000	0.000
29	0.000	0.000	0.000
30	0.000	0.000	0.000
31	NA	0.000	NA
Monthly Average (cfs)	0.000	0.290	0.000

Monthly Discharge

Cubic Feet	0	777847	0
Gallons	0	5818703	0
Acre-Feet	0.00	17.86	0.00

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging Station GS11 is located 39° 54' 3"N, 105° 10' 47"W, at the Pond A-4 Outfall on North Walnut Creek (See Section 4 Map). This station is a RFCA Point of Compliance and monitors water discharged from Pond A-4 to North Walnut Creek. This station collects samples for selected radionuclides using continuous flow-paced sampling.

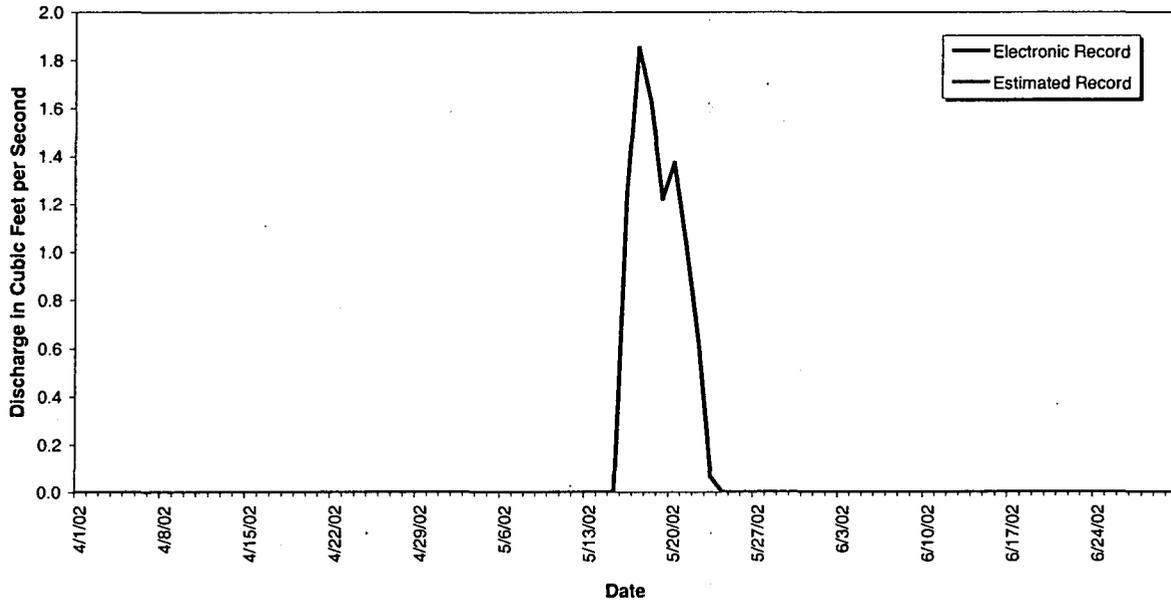


Figure 6-9. Mean Daily Discharge at GS11 Water Year 2002 (April, May, and June)

Table 6-10. Gaging Station GS16: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.069	0.069	0.058
2	0.072a	0.092	0.055
3	0.080a	0.058	0.062
4	0.077a	0.053	0.146
5	0.075	0.051	0.075
6	0.076	0.048	0.057
7	0.076	0.049	0.052
8	0.077	0.051	0.050
9	0.073	0.048	0.044
10	0.074	0.052	0.043
11	0.073	0.104	0.043
12	0.071	0.173	0.043
13	0.066	0.075	0.045
14	0.058	0.068	0.044
15	0.067	0.063	0.043
16	0.061	0.115	0.043
17	0.062	0.106	0.037
18	0.059	0.076	0.033
19	0.065	0.068	0.038
20	0.081	0.082	0.047
21	0.068	0.074	0.038
22	0.059	0.053	0.040
23	0.052	0.142	0.033
24	0.052	0.575	0.030
25	0.058	0.379	0.030
26	0.063	0.125	0.029
27	0.060	0.091	0.028
28	0.054	0.075	0.026
29	0.052	0.067	0.025
30	0.052	0.062	0.021
31	NA	0.056	NA
Monthly Average (cfs)	0.066	0.103	0.045

Monthly Discharge

Cubic Feet	171297	276257	117393
Gallons	1281392	2066547	878163
Acre-Feet	3.93	6.34	2.69

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

^a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Buffer Zone Hydrologic monitoring location GS16 is located at state plane 2083406, 746659 on Antelope Springs Creek 970 feet upstream of Woman Creek. This station monitors discharge from Antelope Springs and runoff from the surrounding area. The GS16 drainage area is approximately 105 acres. This station collects flow data only.

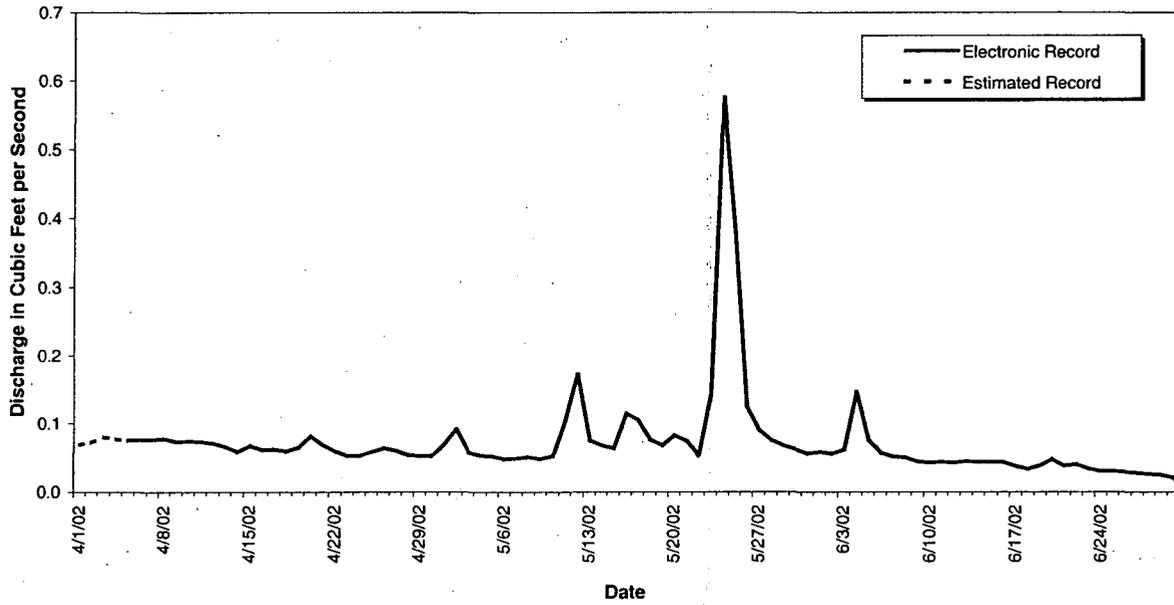


Figure 6-10. Mean Daily Discharge at GS16, Water Year 2002 (April, May, and June)

Table 6-11. Gaging Station GS22: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.017	0.054	0.014
2	0.020	0.043	0.014
3	0.018	0.011	0.116
4	0.017	0.010	0.100
5	0.017	0.009	0.015
6	0.017	0.008	0.015
7	0.015	0.008	0.015
8	0.015	0.008	0.015
9	0.015	0.010	0.014
10	0.017	0.008	0.014
11	0.017	0.162	0.014
12	0.015	0.151	0.013
13	0.015	0.009	0.013
14	0.015	0.015	0.021
15	0.015	0.009	0.014
16	0.015	0.147	0.015
17	0.015	0.012	0.014
18	0.014	0.009	0.014
19	0.015	0.009	0.100
20	0.031	0.039	0.020
21	0.018	0.011	0.013
22	0.022	0.009	0.020
23	0.016	0.48a	0.014
24	0.015	0.560	0.013
25	0.016	0.143	0.013
26	0.016	0.015	0.013
27	0.016	0.015	0.013
28	0.016	0.015	0.018
29	0.015	0.015	0.014
30	0.014	0.015	0.014
31	NA	0.014	NA
Monthly Average (cfs)	0.017	0.065	0.024

Monthly Discharge

Cubic Feet	43020	175365	61964
Gallons	321813	1311821	463526
Acre-Foot	0.99	4.03	1.42

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

^a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging station GS22 was upgraded as a Performance monitoring location in support of D&D activities for the 400 Area. GS22 is located at state plane 2082678, 747820 on the outlet of a culvert draining a portion of the 400 Area immediately upstream from the SID south of B664. The GS22 drainage area is approximately 17.2 acres. This station collects samples for Pu, Am, uranium isotopes, CLP metals, and TSS using continuous flow-paced composite sampling.

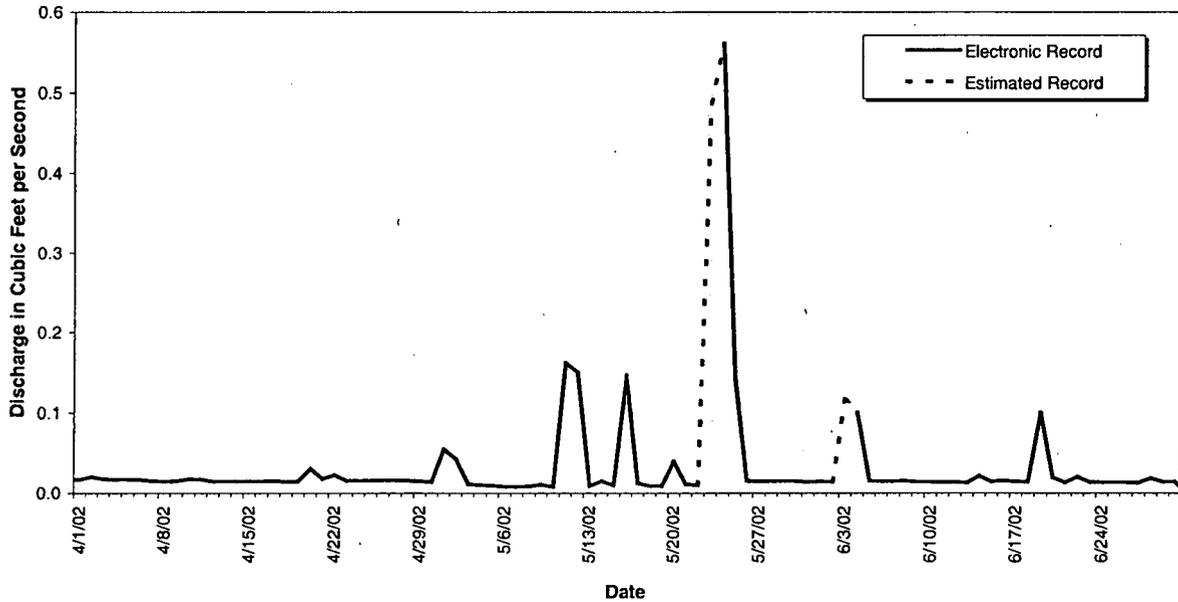


Figure 6-11. Mean Daily Discharge at GS22, Water Year 2002 (April, May, and June)

Table 6-12. Gaging Station GS27: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0004
5	0.0000	0.0000	0.0007
6	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0001
15	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0001
17	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000
29	0.000	0.000	0.000
30	0.000	0.000	0.000
31	NA	0.000	NA
Monthly Average (cfs)	0.000	0.000	0.000

Monthly Discharge

Cubic Feet	0	0	0
Gallons	0	0	0
Acre-Feet	0.00	0.00	0.00

Note: mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging Station GS27 is located at State Plane 2080529; 751216, at the small drainage ditch NW of Building 884 (see Section 4 Map). This location is a Performance and Best Management Practices Monitoring Location and monitors water draining from the Building 889 area. This station collects samples for selected radionuclides using continuous, flow-paced sampling.

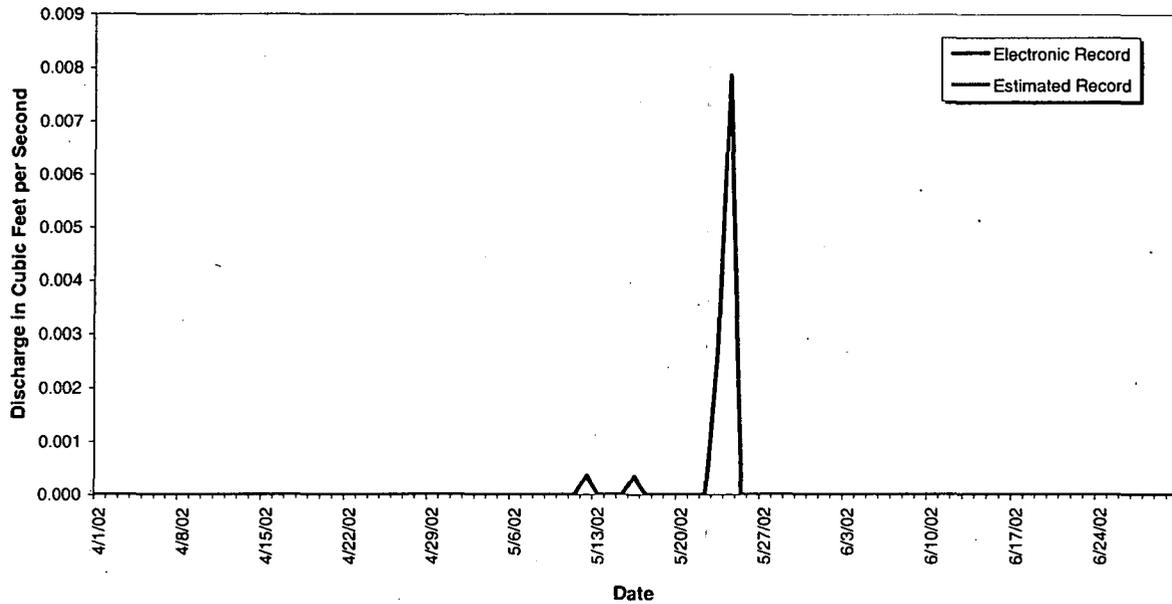


Figure 6-12. Mean Daily Discharge at GS27 Water Year 2002 (April, May, and June)

Table 6-13. Gaging Station GS28: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.000	0.000	0.000
2	0.000	0.000	0.000
3	0.000	0.000	0.000
4	0.000	0.000	0.000
5	0.000	0.000	0.000
6	0.000	0.000	0.000
7	0.000	0.000	0.000
8	0.000	0.000	0.000
9	0.000	0.000	0.000
10	0.000	0.000	0.000
11	0.000	0.000	0.000
12	0.000	0.000	0.000
13	0.000	0.000	0.000
14	0.000	0.000	0.000
15	0.000	0.000	0.000
16	0.000	0.000	0.000
17	0.000	0.000	0.000
18	0.000	0.000	0.000
19	0.000	0.000	0.000
20	0.000	0.000	0.000
21	0.000	0.000	0.000
22	0.000	0.000	0.000
23	0.000	0.019	0.000
24	0.000	0.039	0.000
25	0.000	0.011	0.000
26	0.000	0.000	0.000
27	0.000	0.000	0.000
28	0.000	0.000	0.000
29	0.000	0.000	0.000
30	0.000	0.000	0.000
31	NA	0.000	NA
Monthly Average (cfs)	0.000	0.002	0.000

Monthly Discharge

Cubic Feet	0	5987	0
Gallons	0	44784	0
Acre-Feet	0.00	0.14	0.00

Note: mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging station GS28 was re-installed as a Performance monitoring location in support of D&D activities for the 800 Area. GS28 is located at state plane 2084008, 749279 on a ditch NW of B865. The GS28 drainage area is approximately 3 acres. This station collects samples for Pu, Am, uranium isotopes, CLP metals, and TSS using continuous flow-paced composite sampling.

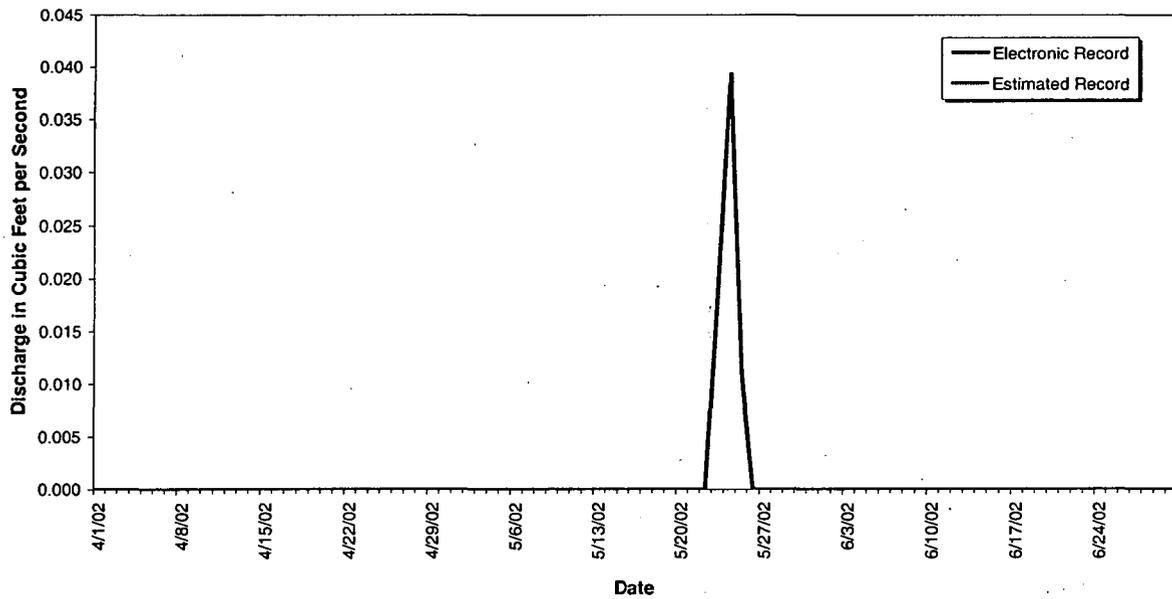


Figure 6-13. Mean Daily Discharge at GS28 Water Year 2002 (April, May, and June)

Table 6-14. Gaging Station GS31: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.000	0.000	0.000
2	0.000	0.000	0.000
3	0.000	0.000	0.000
4	0.000	0.000	0.000
5	0.000	0.000	0.000
6	0.000	0.000	0.000
7	0.000	0.000	0.000
8	0.000	0.000	0.000
9	0.000	0.000	0.000
10	0.000	0.000	0.000
11	0.000	0.000	0.000
12	0.000	0.000	0.000
13	0.000	0.000	0.000
14	0.000	0.000	0.000
15	0.000	0.000	0.000
16	0.000	0.000	0.000
17	0.000	0.000	0.000
18	0.000	0.000	0.000
19	0.000	0.000	0.000
20	0.000	0.000	0.000
21	0.000	0.000	0.000
22	0.000	0.000	0.000
23	0.000	0.000	0.000
24	0.000	0.000	0.000
25	0.000	0.000	0.000
26	0.000	0.000	0.000
27	0.000	0.000	0.000
28	0.000	0.000	0.000
29	0.000	0.000	0.000
30	0.000	0.000	0.000
31	NA	0.000	NA
Monthly Average (cfs)	0.000	0.000	0.000

Monthly Discharge

Cubic Feet	0	0	0
Gallons	0	0	0
Acre-Feet	0.00	0.00	0.00

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging Station GS31 is located at State Plane 2089268: 747506, at the Pond C-2 Outfall (See Section 4 Map). This station is a RFCA Point of Compliance and monitors water discharged from Pond C-2. This station collects samples for selected radionuclides using continuous flow-paced sampling.

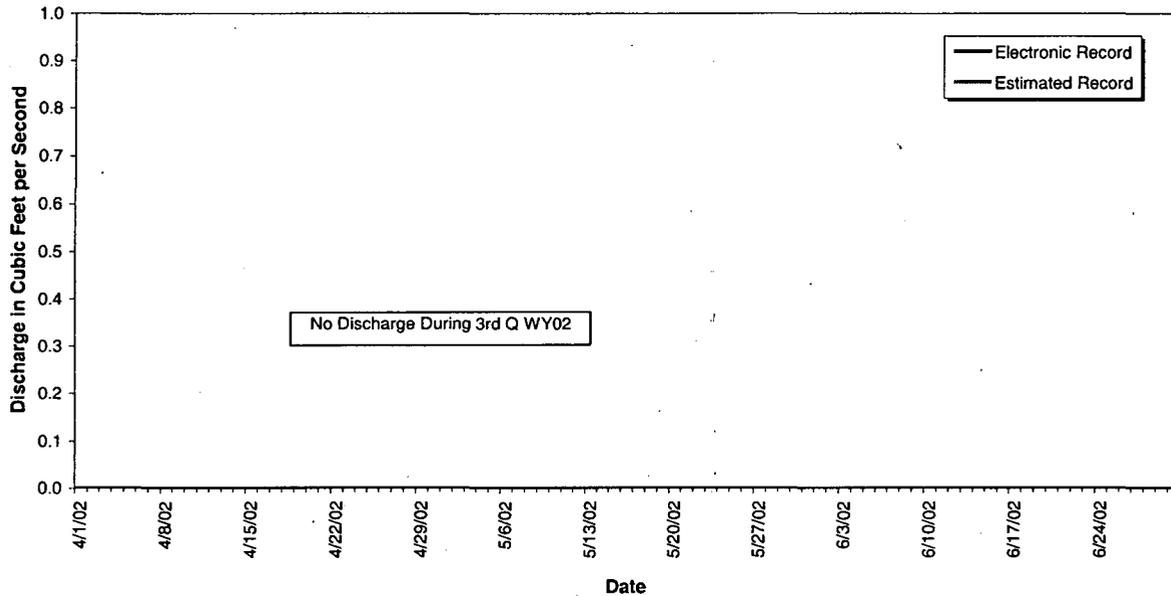


Figure 6-14. Mean Daily Discharge at GS31 Water Year 2002 (April, May, and June)

Table 6-15. Gaging Station GS39: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.000	0.000	0.000
2	0.000	0.000	0.000
3	0.000	0.000	0.002
4	0.000	0.000	0.011
5	0.000	0.000	0.000
6	0.000	0.000	0.000
7	0.000	0.000	0.000
8	0.000	0.000	0.000
9	0.000	0.000	0.000
10	0.000	0.000	0.000
11	0.000	0.006	0.000
12	0.000	0.019	0.000
13	0.000	0.000	0.000
14	0.000	0.000	0.000
15	0.000	0.000	0.000
16	0.000	0.017	0.000
17	0.000	0.001	0.000
18	0.000	0.000	0.000
19	0.000	0.000	0.000
20	0.000	0.000	0.000
21	0.000	0.000	0.000
22	0.000	0.000	0.000
23	0.000	0.084	0.000
24	0.000	0.164	0.000
25	0.000	0.005	0.000
26	0.000	0.000	0.000
27	0.000	0.000	0.000
28	0.000	0.000	0.000
29	0.000	0.000	0.000
30	0.000	0.000	0.000
31	NA	0.000	NA
Monthly Average (cfs)	0.000	0.010	0.000

Monthly Discharge

Cubic Feet	0	25499	1108
Gallons	0	190746	8285
Acre-Feet	0.00	0.59	0.03

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging Station GS39 is located in the drainage ditch northwest of the 904 Pad. This location is a RFCA Source Location station monitoring water flowing from the area of the 903 Pad as well as part of the 904 Pad and contractor yard to South Walnut Creek. This station collects samples for selected radionuclides using continuous, flow-paced sampling.

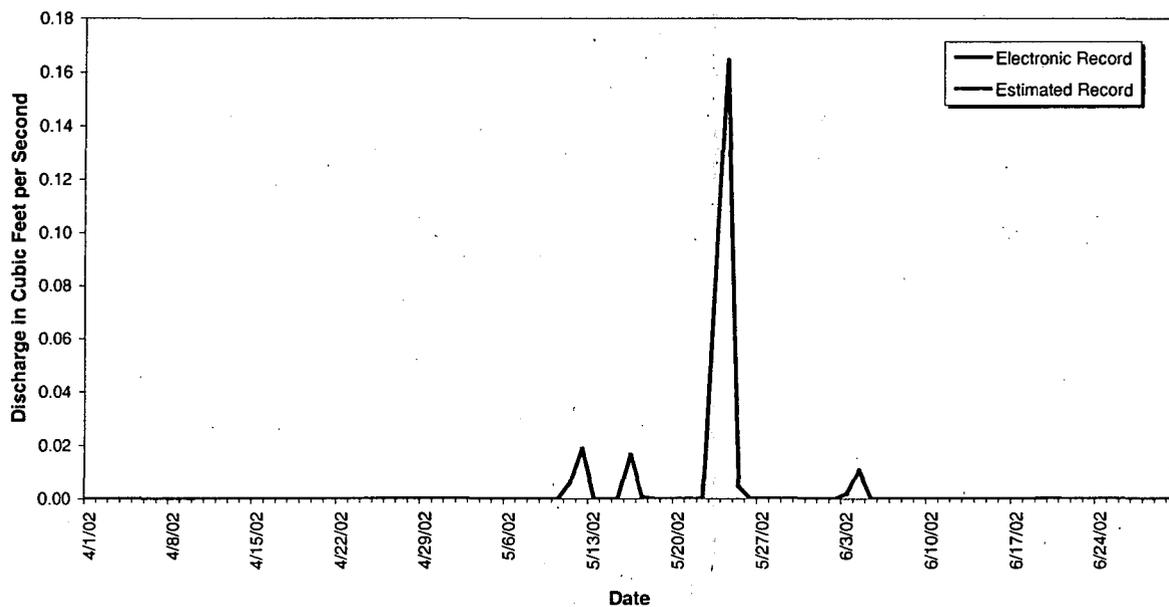


Figure 6-15. Mean Daily Discharge at GS39 Water Year 2002 (April, May, and June)

Table 6-16. Gaging Station GS40: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.026	0.061	0.026
2	0.030	0.047	0.026
3	0.026	0.021	0.103
4	0.026	0.021	0.116
5	0.025	0.021	0.027
6	0.025	0.021	0.042
7	0.024	0.021	0.033
8	0.026	0.022	0.031
9	0.024	0.021	0.031
10	0.023	0.021	0.031
11	0.026	0.167	0.031
12	0.024	0.164	0.031
13	0.024	0.023	0.030
14	0.023	0.043	0.031
15	0.024	0.022	0.031
16	0.024	0.169	0.029
17	0.025	0.027	0.029
18	0.024	0.021	0.026
19	0.027	0.031	0.105
20	0.041	0.047	0.027
21	0.023	0.027	0.023
22	0.023	0.027	0.024
23	0.022	0.473	0.020
24	0.024	0.816	0.021
25	0.027	0.149	0.022
26	0.026	0.066	0.024
27	0.023	0.040	0.026
28	0.022	0.034	0.027
29	0.022	0.030	0.027
30	0.022	0.029	0.030
31	NA	0.027	NA
Monthly Average (cfs)	0.025	0.087	0.036

Monthly Discharge

Cubic Feet	64892	234074	93263
Gallons	485428	1750996	697655
Acre-Feet	1.49	5.37	2.14

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging Station GS40 is located on the concrete spillway east of Tenth Street, south of Building 997. This location is a RFCA Performance Monitoring Location monitoring water flowing from the 700 area to South Walnut Creek. This station samples for selected radionuclides using continuous, flow-paced sampling.

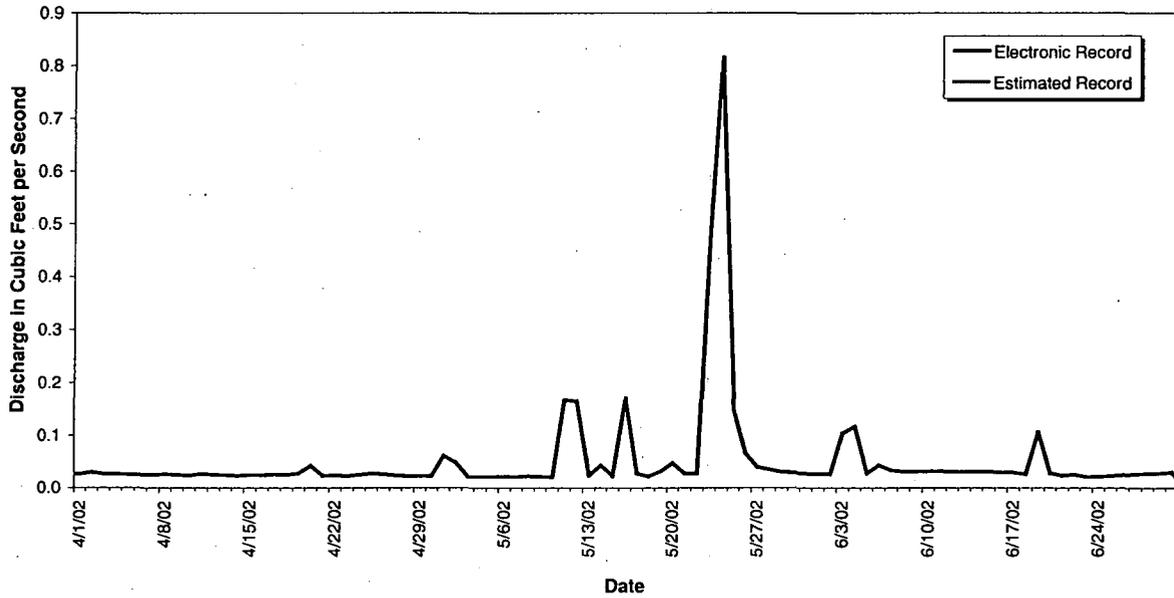


Figure 6-16. Mean Daily discharge at GS40 Water Year 2002 (April, May, and June)

Table 6-17. Gaging Station GS42: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.000	0.000	0.000
2	0.000	0.000	0.000
3	0.000	0.000	0.000
4	0.000	0.000	0.000
5	0.000	0.000	0.000
6	0.000	0.000	0.000
7	0.000	0.000	0.000
8	0.000	0.000	0.000
9	0.000	0.000	0.000
10	0.000	0.000	0.000
11	0.000	0.000	0.000
12	0.000	0.000	0.000
13	0.000	0.000	0.000
14	0.000	0.000	0.000
15	0.000	0.000	0.000
16	0.000	0.000	0.000
17	0.000	0.000	0.000
18	0.000	0.000	0.000
19	0.000	0.000	0.000
20	0.000	0.000	0.000
21	0.000	0.000	0.000
22	0.000	0.000	0.000
23	0.000	0.000	0.000
24	0.000	0.000	0.000
25	0.000	0.000	0.000
26	0.000	0.000	0.000
27	0.000	0.000	0.000
28	0.000	0.000	0.000
29	0.000	0.000	0.000
30	0.000	0.000	0.000
31	NA	0.000	NA
Monthly Average (cfs)	0.000	0.000	0.000

Monthly Discharge

Cubic Feet	0	0	0
Gallons	0	0	0
Acre-Feet	0.00	0.00	0.00

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging station GS42 was upgraded as a Performance monitoring location in support of characterization activities for the 903 Pad and Lip Area. GS42 is located at state plane 2088476, 748236 on a drainage swale immediately upstream from the SID north of Pond C-2. The GS42 drainage area is approximately 45.2 acres. This station collects samples for Pu, Am, uranium isotopes, and TSS using continuous flow-paced composite sampling.

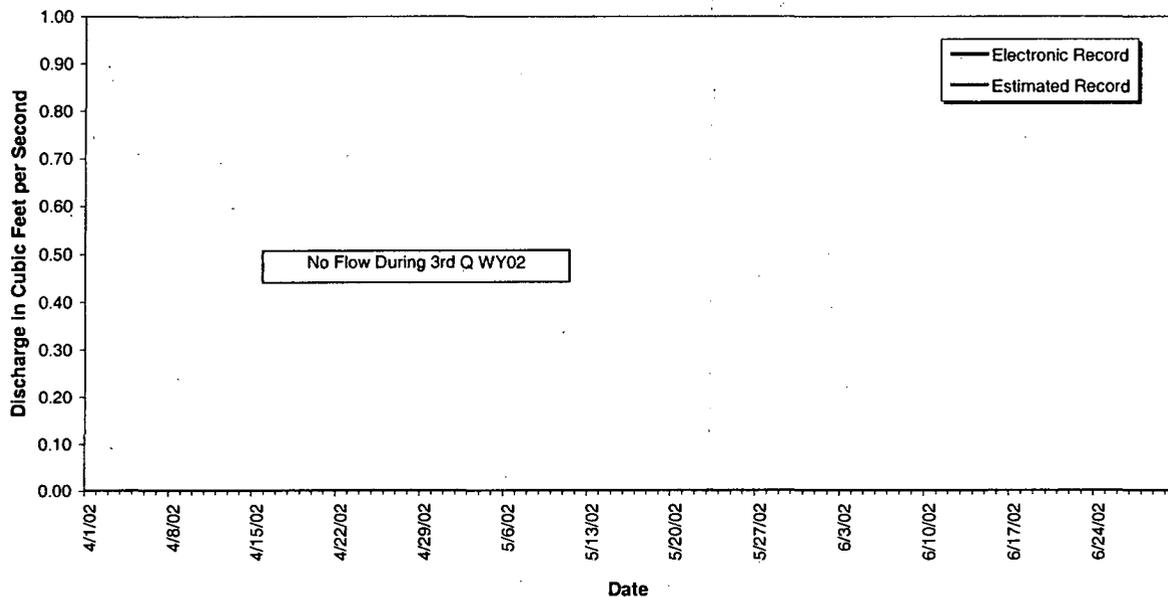


Figure 6-17. Mean Daily Discharge at GS42, Water Year 2002 (April, May, and June)

Table 6-18. Gaging Station GS43: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.000a	0.000	0.000
2	0.000a	0.000	0.000
3	0.000	0.000	0.000
4	0.000	0.000	0.000
5	0.000	0.000	0.000
6	0.000	0.000	0.000
7	0.000	0.000	0.000
8	0.000	0.000	0.000
9	0.000	0.000	0.000
10	0.000	0.000	0.000
11	0.000	0.000	0.000
12	0.000	0.000	0.000
13	0.000	0.000	0.000
14	0.000	0.000	0.000
15	0.000	0.000	0.000
16	0.000	0.000	0.000
17	0.000	0.000	0.000
18	0.000	0.000	0.000
19	0.000	0.000	0.000
20	0.000	0.000	0.000
21	0.000	0.000	0.000
22	0.000	0.000	0.000
23	0.000	0.008	0.000
24	0.000	0.051	0.000
25	0.000	0.000	0.000
26	0.000	0.000	0.000
27	0.000	0.000	0.000
28	0.000	0.000	0.000
29	0.000	0.000	0.000
30	0.000	0.000	0.000
31	NA	0.000	NA
Monthly Average (cfs)	0.000	0.002	0.000

Monthly Discharge

Cubic Feet	0	5102	0
Gallons	0	38169	0
Acre-Feet	0.00	0.12	0.00

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

^a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging station GS43 is located in the ditch at the northeast corner of T886A. This location is a RFCA Performance Monitoring Location monitoring runoff from the eastern portion of the 800 area including Building 875, T886A, and the eastern half of Building 886. Water passing this monitoring location continues to South Walnut Creek. This station samples for selected radionuclides and metals using continuous, flow-paced sampling.

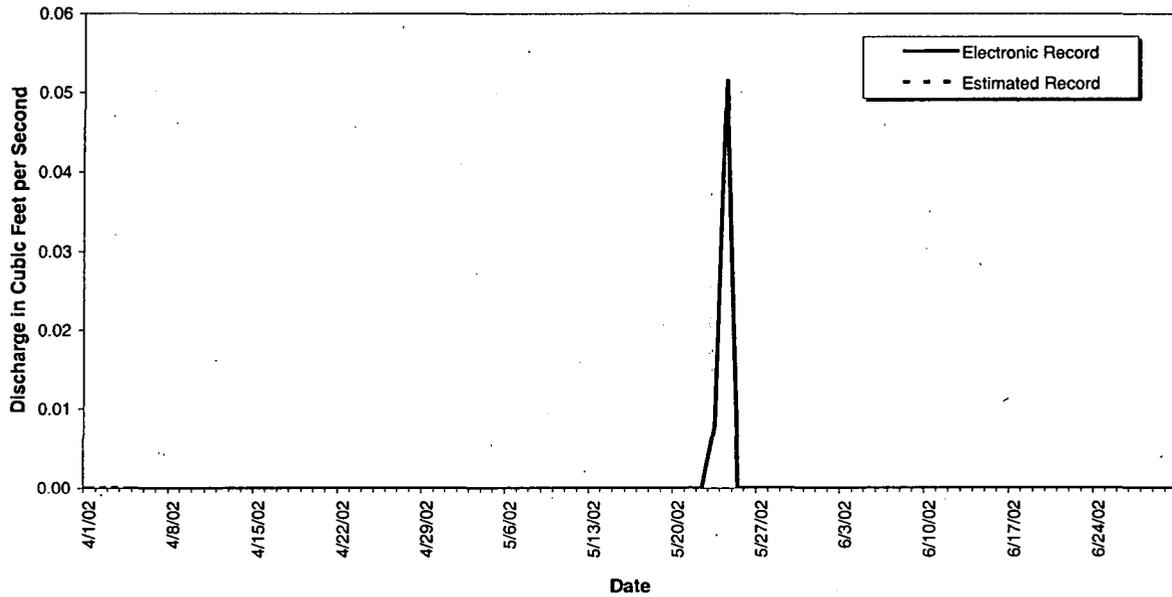


Figure 6-18. Mean Daily Discharge at GS43, Water Year 2002 (April, May, and June)

Table 6-19. Gaging Station GS44 Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.000	0.001	0.003
2	0.001a	0.000	0.004
3	0.001a	0.000	0.006
4	0.000a	0.000	0.008
5	0.000a	0.000	0.003
6	0.000	0.000	0.002
7	0.000	0.000	0.003
8	0.000	0.000	0.004
9	0.000	0.000	0.002
10	0.000	0.000	0.002
11	0.000	0.008	0.002
12	0.000	0.015	0.002
13	0.000	0.001	0.003
14	0.000	0.001	0.002
15	0.000	0.000	0.002
16	0.000	0.012	0.002
17	0.000	0.001	0.002
18	0.000	0.001	0.001
19	0.000	0.001	0.004
20	0.000	0.001	0.002
21	0.000	0.000	0.002
22	0.000	0.000	0.002
23	0.000	0.057a	0.001
24	0.000	0.102	0.001
25	0.000	0.019	0.001
26	0.000	0.005	0.001
27	0.000	0.003	0.000
28	0.000	0.003	0.000
29	0.000	0.002	0.000
30	0.000	0.002	0.000
31	NA	0.002	NA
Monthly Average (cfs)	0.000	0.008	0.002

Monthly Discharge

Cubic Feet	196	20444	5642
Gallons	1465	152934	42206
Acre-Feet	0.00	0.47	0.13

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

^a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging station GS44 is located at state plane 2083411, 751100 on a drainage ditch between T771F and T771L. This station is a Performance Monitoring Location and monitors runoff from the west side of B771 and includes B771 footing drain water. This station collects samples for selected radionuclides and water quality parameters using continuous flow-paced composite sampling.

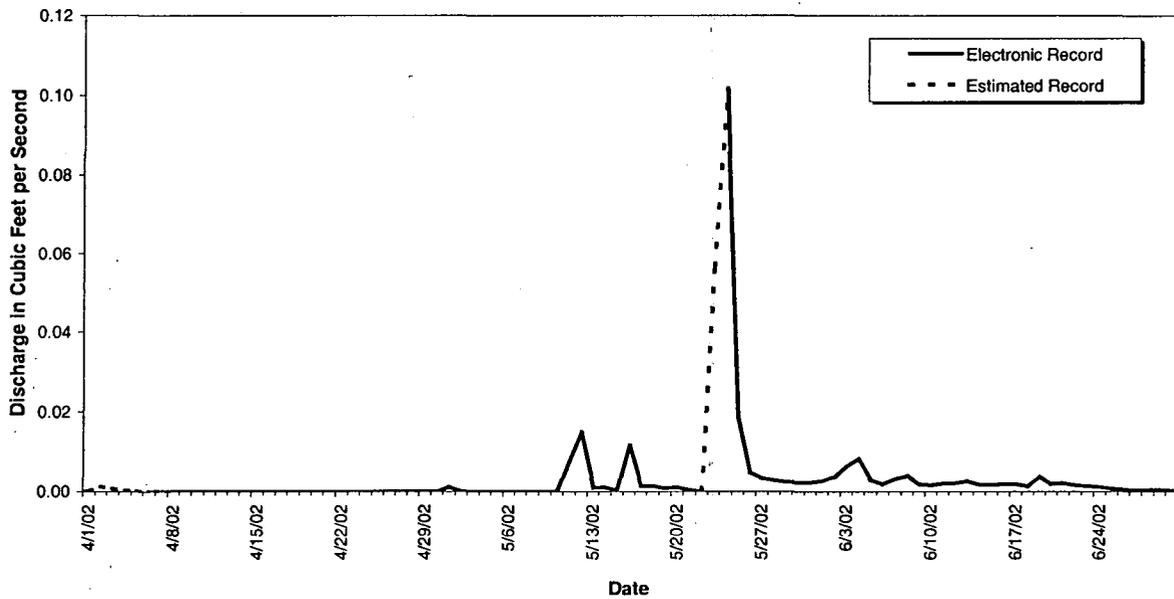


Figure 6-19. Mean Daily Discharge at GS44 Water Year 2002 (April, May, and June)

Table 6-20. Gaging Station GS49 Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.000	0.000	0.000
2	0.000a	0.002	0.000
3	0.000a	0.000	0.003
4	0.000	0.000	0.003
5	0.000	0.000	0.000
6	0.000	0.000	0.000
7	0.000	0.000	0.000
8	0.000	0.000	0.000
9	0.000	0.000	0.000
10	0.000	0.000	0.000
11	0.000	0.005	0.000
12	0.000	0.006	0.000
13	0.000	0.000	0.000
14	0.000	0.000	0.000
15	0.000	0.000	0.000
16	0.000	0.005	0.000
17	0.000	0.000	0.000
18	0.000	0.000	0.000
19	0.000	0.000	0.003
20	0.000	0.001	0.000
21	0.000a	0.000	0.000
22	0.000	0.000	0.000
23	0.000	0.021	0.000
24	0.000	0.030	0.000
25	0.000	0.009	0.000
26	0.000	0.000	0.000
27	0.000	0.000	0.000
28	0.000	0.000	0.000
29	0.000	0.000	0.000
30	0.000	0.000	0.000
31	NA	0.000	NA
Monthly Average (cfs)	0.000	0.003	0.000

Monthly Discharge

Cubic Feet	23	7009	759
Gallons	170	52434	5680
Acre-Feet	0.00	0.16	0.02

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

^a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging station GS49 is located at state plane 2083292, 750652 on a drainage ditch northwest of B566. This station is a Performance Monitoring location and has been installed in support of D&D activities for Building 776/777. This station monitors runoff from the west side of the B776/777 complex. The GS49 drainage area is approximately 3.3 acres. This station collects samples for selected isotopes, metals, tritium, and TSS using continuous flow-paced composite sampling.

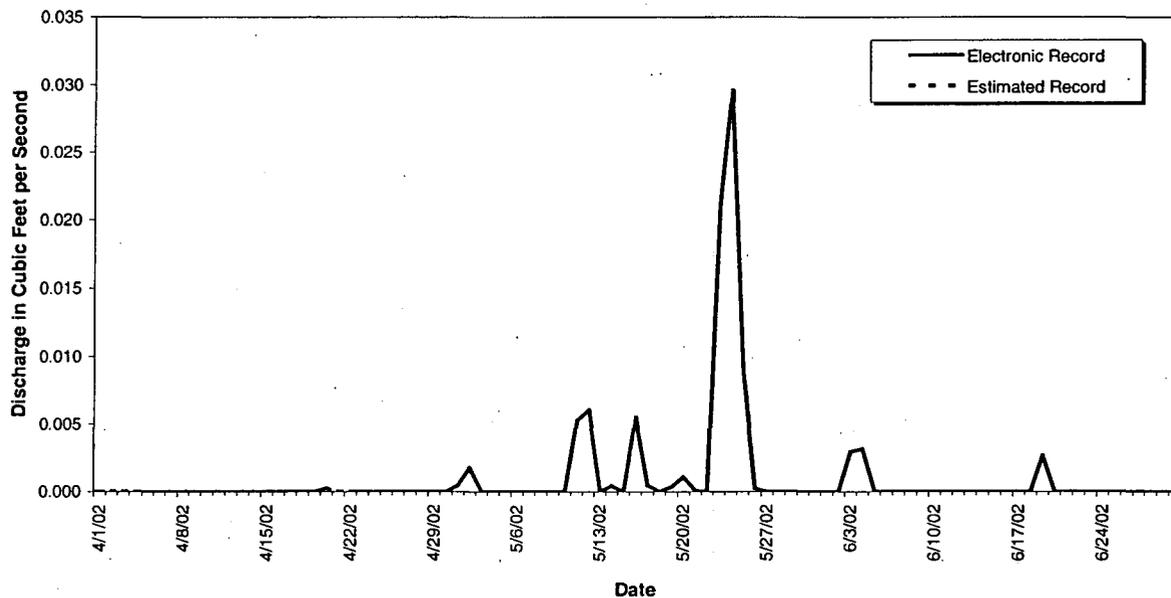


Figure 6-20. Mean Daily Discharge at GS49 Water Year 2002 (April, May, and June)

Table 6-21. Gaging Station GS50 Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.000	0.000	0.000
2	0.000	0.000	0.000
3	0.000	0.000	0.000
4	0.000	0.000	0.000
5	0.000	0.000	0.000
6	0.000	0.000	0.000
7	0.000	0.000	0.000
8	0.000	0.000	0.000
9	0.000	0.000	0.000
10	0.000	0.000	0.000
11	0.000	0.000	0.000
12	0.000	0.000	0.000
13	0.000	0.000	0.000
14	0.000	0.000	0.000
15	0.000	0.000	0.000
16	0.000	0.000	0.000
17	0.000	0.000	0.000
18	0.000	0.000	0.000
19	0.000	0.000	0.000
20	0.000	0.000	0.000
21	0.000	0.000	0.000
22	0.000	0.000	0.000
23	0.000	0.003	0.000
24	0.000	0.031	0.000
25	0.000	0.001	0.000
26	0.000	0.000	0.000
27	0.000	0.000	0.000
28	0.000	0.000	0.000
29	0.000	0.000	0.000
30	0.000	0.000	0.000
31	NA	0.000	NA
Monthly Average (cfs)	0.000	0.001	0.000

Monthly Discharge

Cubic Feet	0	2999	0
Gallons	0	22431	0
Acre-Feet	0.00	0.07	0.00

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging station GS50 is located at state plane 2085760, 750441 on a drainage ditch northeast of B990. This station is a performance monitoring location that was installed in support of remediation activities for the Solar Ponds and the ongoing GS10 Source Evaluation effort. This station monitors runoff from the south side of the Solar Ponds and Triangle Area. The GS50 drainage area is approximately 4.1 acres. This station collects samples for Pu, Am, uranium isotopes, CLP metals, and TSS using continuous flow-paced composite sampling.

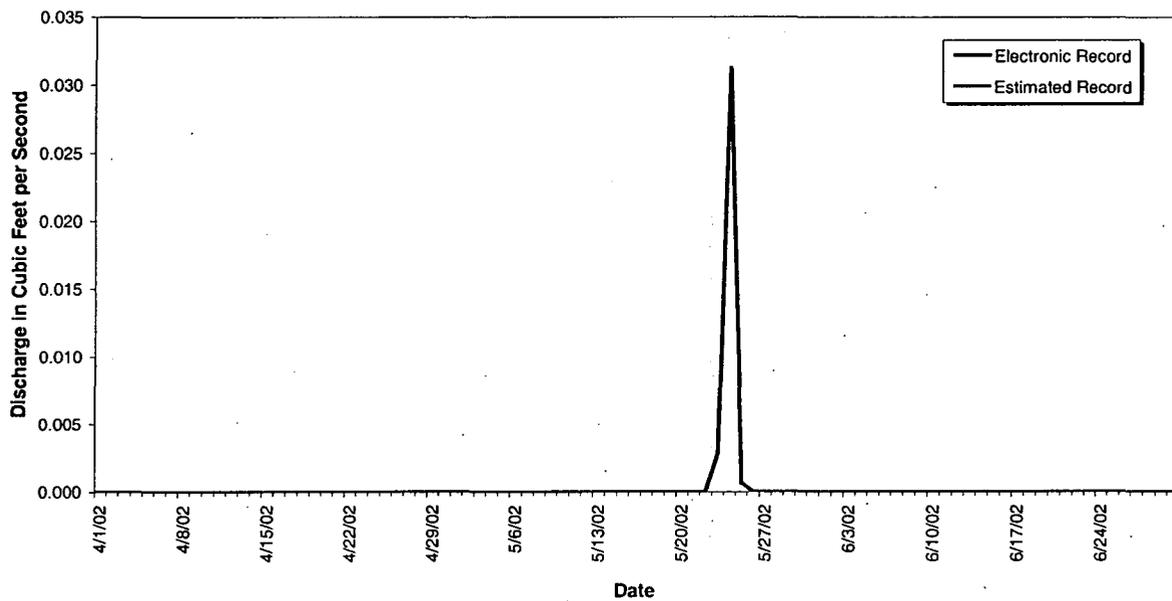


Figure 6-21. Mean Daily Discharge at GS50 Water Year 2002 (April, May, and June)

Table 6-22. Gaging Station GS51: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.000	0.000	0.000
2	0.000	0.000	0.000
3	0.000	0.000	0.000
4	0.000	0.000	0.000
5	0.000	0.000	0.000
6	0.000	0.000	0.000
7	0.000	0.000	0.000
8	0.000	0.000	0.000
9	0.000	0.000	0.000
10	0.000	0.000	0.000
11	0.000	0.000	0.000
12	0.000	0.000	0.000
13	0.000	0.000	0.000
14	0.000	0.000	0.000
15	0.000	0.000	0.000
16	0.000	0.000	0.000
17	0.000	0.000	0.000
18	0.000	0.000	0.000
19	0.000	0.000	0.000
20	0.000	0.000	0.000
21	0.000	0.000	0.000
22	0.000	0.000	0.000
23	0.000	0.000	0.000
24	0.000	0.007	0.000
25	0.000	0.000	0.000
26	0.000	0.000	0.000
27	0.000	0.000	0.000
28	0.000	0.000	0.000
29	0.000	0.000	0.000
30	0.000	0.000	0.000
31	NA	0.000	NA
Monthly Average (cfs)	0.000	0.000	0.000

Monthly Discharge

Cubic Feet	0	620	0
Gallons	0	4638	0
Acre-Feet	0.00	0.01	0.00

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

A new Performance monitoring location was installed in support of characterization activities for the 903 Pad and Lip Area. Gaging station GS51 is located at state plane 2086295, 748107 on a drainage ditch southeast of the 903 Pad immediately upstream from the SID. The GS51 drainage area is approximately 3.9 acres. This station collects samples for Pu, Am, uranium isotopes, and TSS using continuous flow-paced composite sampling.

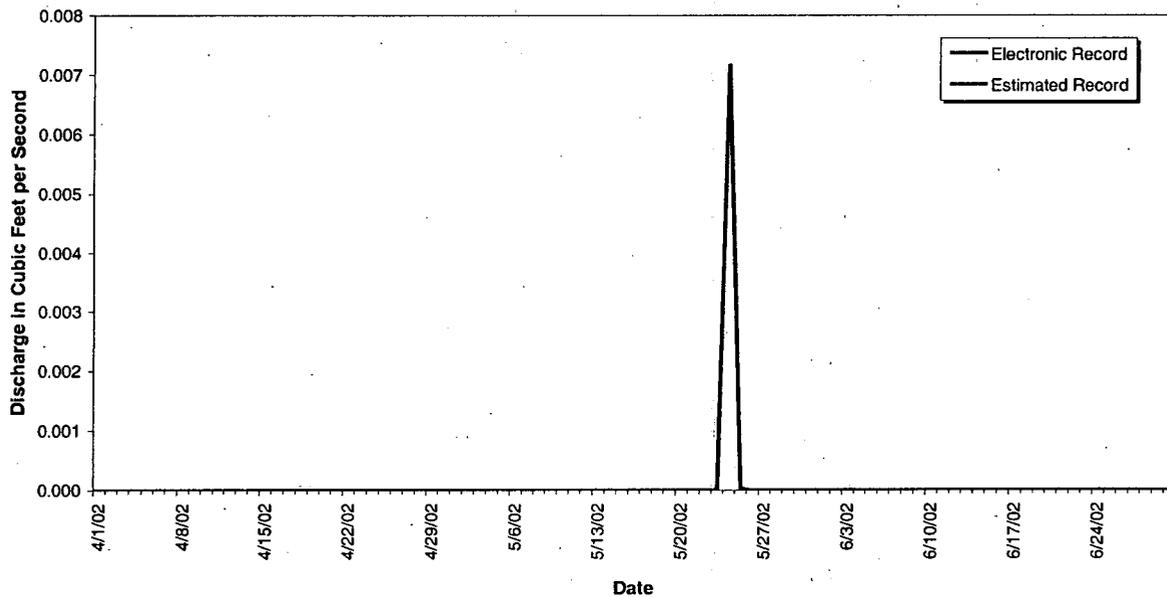


Figure 6-22. Mean Daily Discharge at GS51, Water Year 2002 (April, May, and June)

Table 6-23. Gaging Station GS52: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.000	0.000	0.000
2	0.000	0.000	0.000
3	0.000	0.000	0.000
4	0.000	0.000	0.000
5	0.000	0.000	0.000
6	0.000	0.000	0.000
7	0.000	0.000	0.000
8	0.000	0.000	0.000
9	0.000	0.000	0.000
10	0.000	0.000	0.000
11	0.000	0.000	0.000
12	0.000	0.000	0.000
13	0.000	0.000	0.000
14	0.000	0.000	0.000
15	0.000	0.000	0.000
16	0.000	0.000	0.000
17	0.000	0.000	0.000
18	0.000	0.000	0.000
19	0.000	0.000	0.000
20	0.000	0.000	0.000
21	0.000a	0.000	0.000
22	0.000	0.000	0.000
23	0.000	0.000	0.000
24	0.000	0.000	0.000
25	0.000	0.000	0.000
26	0.000	0.000	0.000
27	0.000	0.000	0.000
28	0.000	0.000	0.000
29	0.000	0.000	0.000
30	0.000	0.000	0.000
31	NA	0.000	NA
Monthly Average (cfs)	0.000	0.000	0.000

Monthly Discharge

Cubic Feet	0	46	0
Gallons	0	341	2
Acre-Feet	0.00	0.00	0.00

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

^a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

A new Performance monitoring location was installed in support of characterization activities for the 903 Pad and Lip Area. Gaging station GS52 is located at state plane 2086715, 748043 on a gully southeast of the 903 Pad immediately upstream from the SID. The GS52 drainage area is approximately 4.3 acres. This station collects samples for Pu, Am, uranium isotopes, and TSS using continuous flow-paced composite sampling.

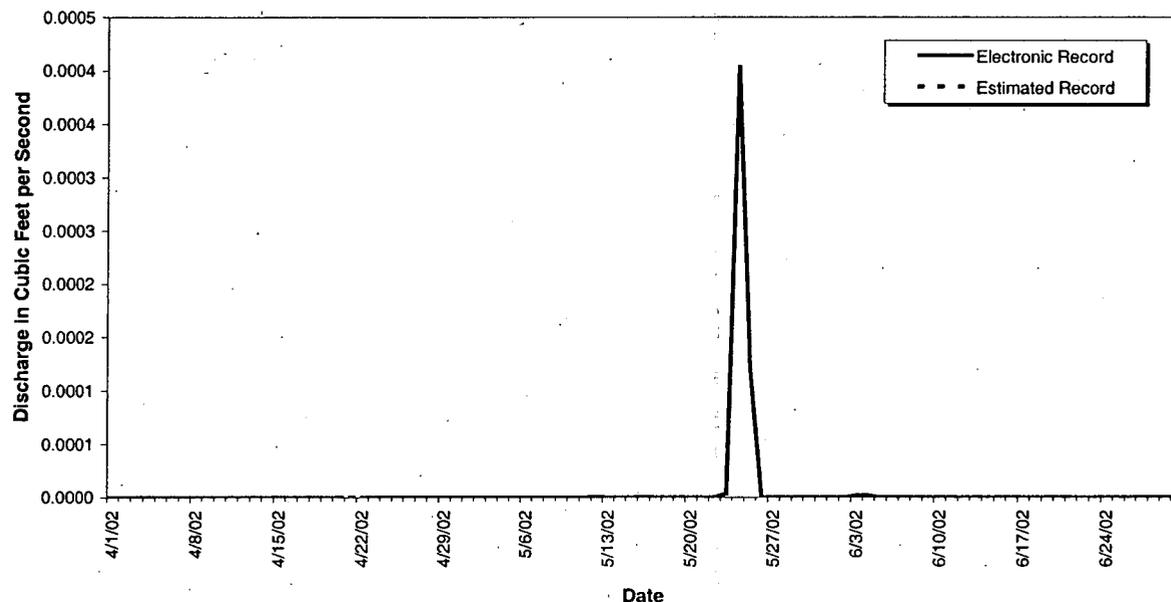


Figure 6-23. Mean Daily Discharge at GS52, Water Year 2002 (April, May, and June)

Table 6-24. Gaging Station GS53: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000
21	0.0000a	0.0000	0.0000
22	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000
31	NA	0.0000	NA
Monthly Average (cfs)	0.000	0.000	0.000

Monthly Discharge

Cubic Feet	0	0	0
Gallons	0	0	0
Acre-Feet	0.00	0.00	0.00

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

^a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

A new Performance monitoring location was installed in support of characterization activities for the 903 Pad and Lip Area. Gaging station GS53 is located at state plane 2087071, 748074 on a gully east-southeast of the 903 Pad immediately upstream from the SID. The GS53 drainage area is approximately 10.1 acres. This station collects samples for Pu, Am, uranium isotopes, and TSS using continuous-flow-paced composite sampling.

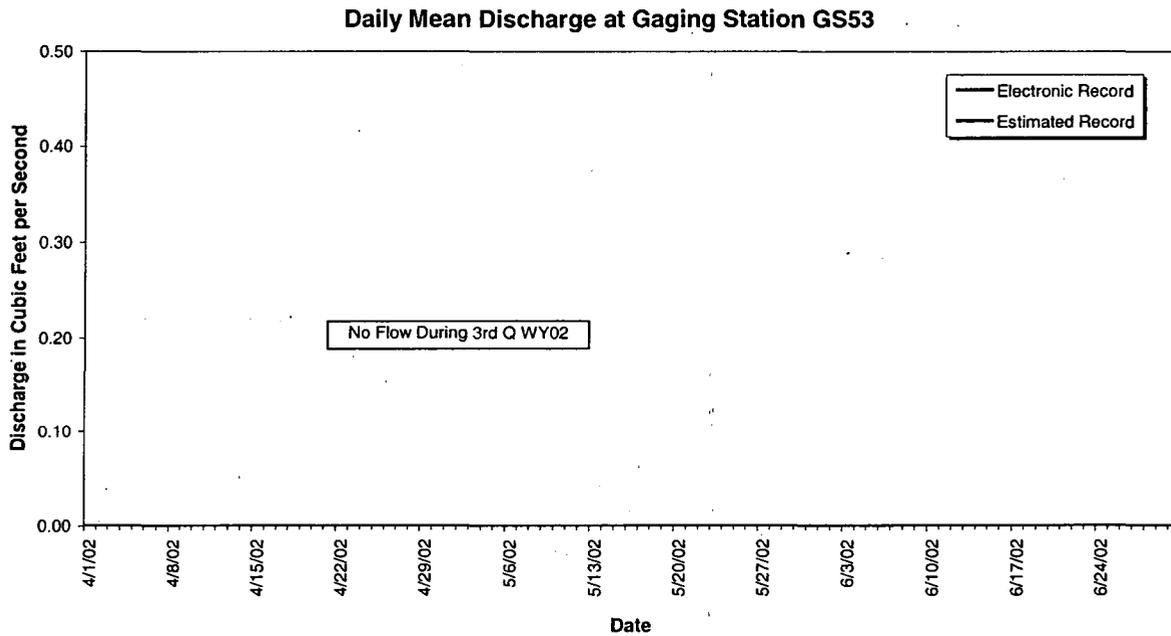


Figure 6-24. Mean Daily Discharge at GS53, Water Year 2002 (April, May, and June)

Table 6-25. Gaging Station GS54: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.0000	0.0000	0.0000
2	0.0000	0.0000a	0.0000
3	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000
31	NA	0.0000	NA
Monthly Average (cfs)	0.000	0.000	0.000

Monthly Discharge

Cubic Feet	0	0	0
Gallons	0	0	0
Acre-Feet	0.00	0.00	0.00

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

^a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

A new Performance monitoring location was installed in support of characterization activities for the 903 Pad and Lip Area. Gaging station GS54 is located at state plane 2087476, 748188 on a gully east-southeast of the 903 Pad immediately upstream from the SID. The GS54 drainage area is approximately 9.5 acres. This station collects samples for Pu, Am, uranium isotopes, and TSS using continuous flow-paced composite sampling.

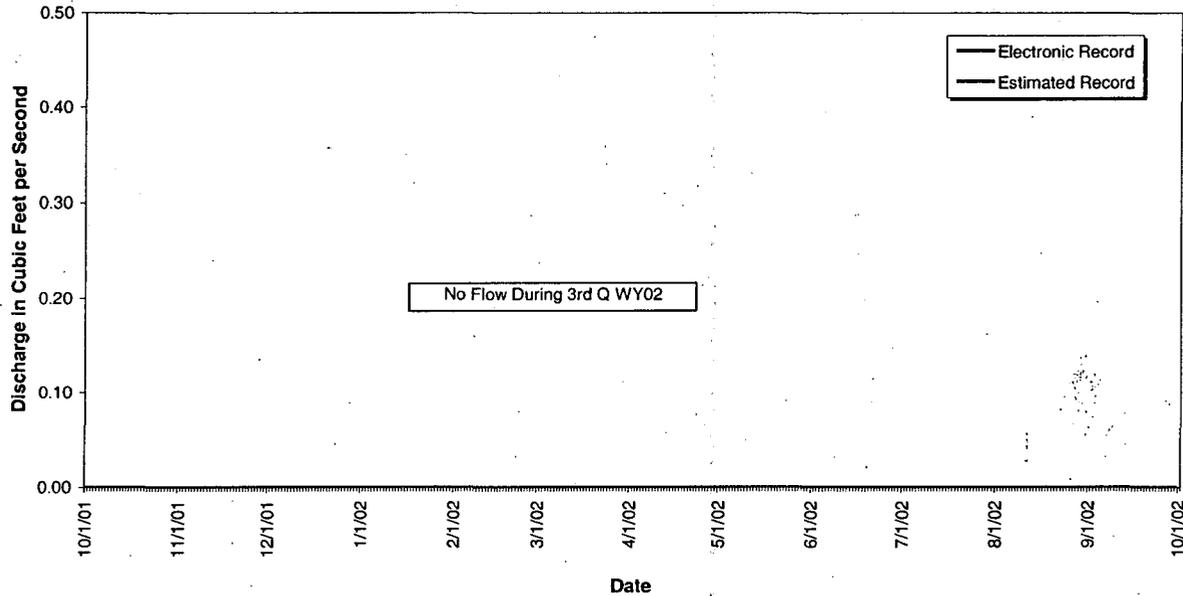


Figure 6-25. Mean Daily Discharge at GS54, Water Year 2002 (April, May, and June)

Table 6-26. Gaging Station GS55: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	No Data	0.006	0.009
2	No Data	0.014	0.009
3	No Data	0.007	0.018
4	No Data	0.005	0.052
5	No Data	0.006	0.010
6	No Data	0.006	0.008
7	No Data	0.006	0.008
8	No Data	0.007	0.007
9	0.000a	0.005	0.006
10	0.003a	0.008	0.006
11	0.007a	0.035	0.007
12	0.006a	0.056	0.006
13	0.010a	0.008	0.007
14	0.010a	0.007	0.007
15	0.010a	0.006	0.008
16	0.006a	0.038	0.008
17	0.007a	0.013	0.008
18	0.003	0.005	0.004
19	0.004	0.004	0.010
20	0.005	0.007	0.012
21	0.005	0.006	0.005
22	0.004	0.004	0.005
23	0.004	0.096	0.004
24	0.004	0.236	0.003
25	0.006	0.052	0.004
26	0.008	0.014	0.004
27	0.006	0.012	0.003
28	0.004	0.011	0.003
29	0.004	0.011	0.003
30	0.004	0.010	0.003
31	NA	0.008	NA
Monthly Average (cfs)	0.005	0.023	0.008

Monthly Discharge

Cubic Feet	10079	61234	21226
Gallons	75398	458062	158785
Acre-Feet	0.23	1.41	0.49

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

^a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging station GS55 was installed as a Performance monitoring location in support of D&D activities for the B881 Area. GS55 is located at state plane 2084112, 747824 on the outlet of a small wetland area draining the B881 Area upstream from the SID south of B881. The GS55 drainage area is approximately 13.7 acres. This station collects samples for Pu, Am, uranium isotopes, CLP metals, and TSS using continuous flow-paced composite sampling.

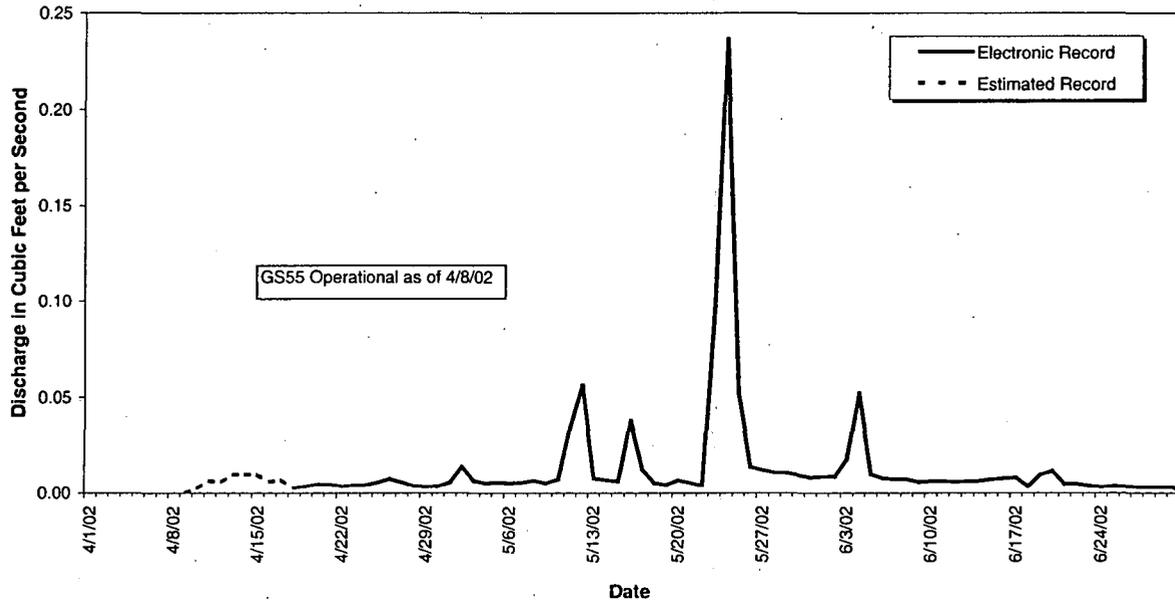


Figure 6-26. Mean Daily Discharge at GS55, Water Year 2002 (April, May, and June)

Table 6-27. Gaging Station GS57: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.0000a	0.0000	0.0000
2	0.0000a	0.0038	0.0000
3	0.0010a	0.0000	0.0049
4	0.0008a	0.0000	0.0367
5	0.0004	0.0000	0.0000
6	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000
11	0.0000	0.0305	0.0000
12	0.0000	0.0567	0.0000
13	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000
16	0.0000	0.0408	0.0000
17	0.0000	0.0071	0.0000
18	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0004
20	0.0000	0.0004	0.0012
21	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000
23	0.0000	0.1364	0.0000
24	0.0000	0.2918	0.0000
25	0.0000	0.0455	0.0000
26	0.0000	0.0068	0.0000
27	0.0000	0.0014	0.0000
28	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000
31	NA	0.0000	NA
Monthly Average (cfs)	0.000	0.020	0.001

Monthly Discharge

Cubic Feet	185	53681	3729
Gallons	1381	401560	27896
Acre-Feet	0.00	1.23	0.09

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

^a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging station GS57 was installed as a Performance monitoring location in support of D&D activities for the 400 Area. GS57 is located at state plane 2082847, 749006 on a ditch NE of B444. The GS57 drainage area is approximately 8.6 acres. This station collects samples for Pu, Am, uranium isotopes, CLP metals, and TSS using continuous flow-paced composite sampling.

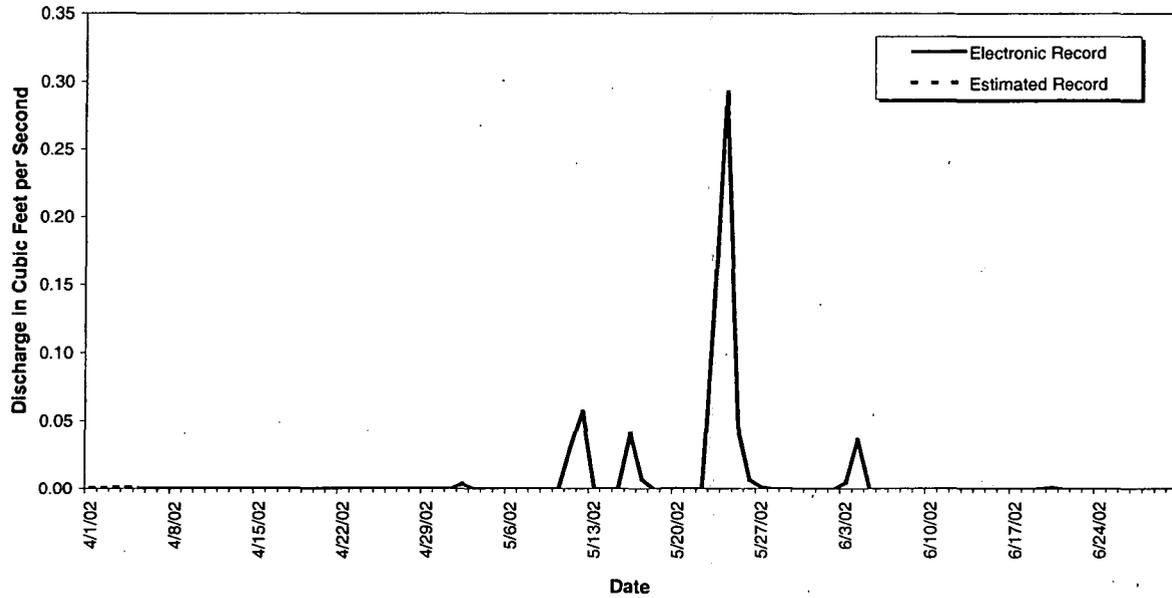


Figure 6-27. Mean Daily Discharge at GS57 Water Year 2002 (April, May, and June)

Table 6-28. Gaging Station 995 POE Mean Daily Discharge (cubic feet per second)^a

Day	Apr-02	May-02	Jun-02
1	0.289	0.238	0.326
2	0.282	0.227	0.243
3	0.249	0.136	0.352
4	0.266	0.234	0.338
5	0.311	0.243	0.289
6	0.352	0.195	0.172
7	0.260	0.225	0.279
8	0.314	0.253	0.336
9	0.273	0.203	0.281
10	0.304	0.198	0.351
11	0.274	0.212	0.321
12	0.173	0.276	0.306
13	0.219	0.279	0.303
14	0.219	0.270	0.242
15	0.231	0.268	0.179
16	0.274	0.193	0.208
17	0.212	0.174	0.298
18	0.189	0.215	0.283
19	0.237	0.265	0.299
20	0.203	0.230	0.186
21	0.181	0.238	0.324
22	0.276	0.270	0.325
23	0.289	0.200	0.316
24	0.298	0.388	0.224
25	0.219	0.395	0.260
26	0.194	0.513	0.215
27	0.197	0.301	0.189
28	0.233	0.232	0.301
29	0.272	0.320	0.272
30	0.222	0.250	0.231
31	NA	0.203	NA
Monthly Average (cfs)	0.250	0.253	0.275

Monthly Discharge

Cubic Feet	649126	677747	712892
Gallons	4855800	5069900	5332800
Acre-Feet	14.90	15.56	16.37

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a - Flow data provided above for this location is measured using the totalizer at B995.

Gaging station 995POE is located on the Building 995 (WWTP) effluent flow stream at the V-notch weir immediately below the UV disinfection equipment. This station is a RFCA Action Level Framework Point of Evaluation and monitors effluent from the Site wastewater treatment plant. This station collects samples for selected radionuclides using continuous flow-paced composite sampling.

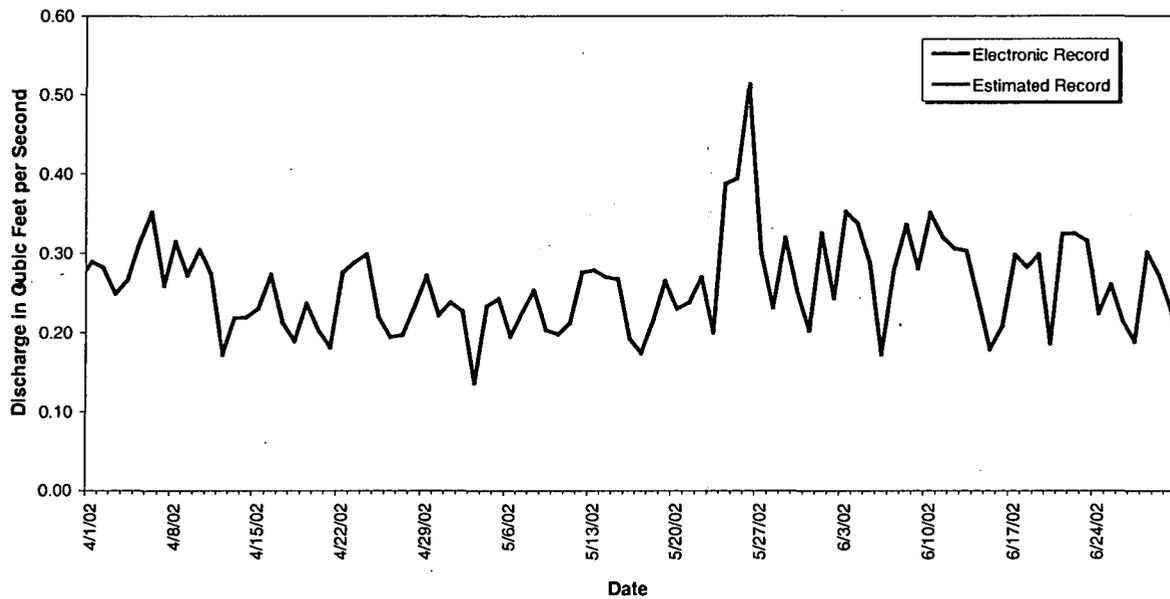


Figure 6-28. Mean Daily Discharge at 995 POE Water Year 2002 (April, May, and June)

Table 6-29. Gaging Station SW022: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.000	0.000	0.000
2	0.000	0.001	0.000
3	0.000	0.000	0.028
4	0.000	0.000	0.183
5	0.000	0.000	0.004
6	0.000	0.000	0.000
7	0.000	0.000	0.000
8	0.000	0.000	0.000
9	0.000	0.000	0.000
10	0.000	0.000	0.000
11	0.000	0.112	0.000
12	0.000	0.252	0.000
13	0.000	0.000	0.000
14	0.000	0.005	0.000
15	0.000	0.000	0.000
16	0.000	0.192	0.000
17	0.000	0.033	0.000
18	0.000	0.000	0.000
19	0.000	0.000	0.036
20	0.000	0.009	0.014
21	0.000	0.002	0.000
22	0.000	0.000	0.000
23	0.000	0.547a	0.000
24	0.000	2.059a	0.000
25	0.000	0.143	0.000
26	0.000	0.021	0.000
27	0.000	0.012	0.000
28	0.000	0.007	0.000
29	0.000	0.000	0.000
30	0.000	0.000	0.000
31	NA	0.000	NA
Monthly Average (cfs)	0.000	0.110	0.009

Monthly Discharge

Cubic Feet	0	293309	22930
Gallons	0	2194101	171528
Acre-Feet	0.00	6.73	0.53

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

^a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging Station SW022 is located 39° 53' 30"N, 105° 11' 30"W, at the Central Avenue Ditch at the Inner East Gate (See Section 4 Map). This location is a RFCA New Source Detection Location and monitors water in the Central Avenue Ditch entering the B-Series Ponds and South Walnut Creek. Storm event samples are collected for selected radionuclides.

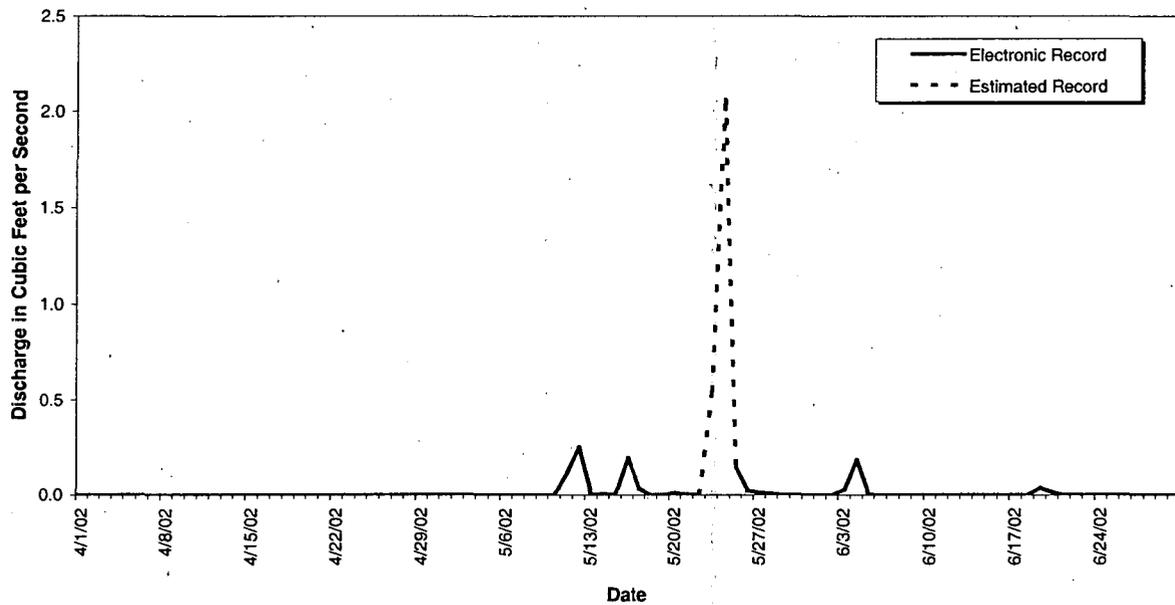


Figure 6-29. Mean Daily Discharge at SW022, Water Year 2002 (April, May, and June)

Table 6-30: Gaging Station SW027: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.000	0.000	0.000
2	0.000	0.000	0.000
3	0.000	0.000	0.000
4	0.000	0.000	0.019
5	0.000	0.000	0.008
6	0.000	0.000	0.002
7	0.000	0.000	0.000
8	0.000	0.000	0.000
9	0.000	0.000	0.000
10	0.000	0.000	0.000
11	0.000	0.000	0.000
12	0.000	0.036	0.000
13	0.000	0.018	0.000
14	0.000	0.004	0.000
15	0.000	0.005	0.000
16	0.000	0.023	0.000
17	0.000	0.119	0.000
18	0.000	0.010	0.000
19	0.000	0.004	0.000
20	0.000	0.003	0.000
21	0.000	0.001	0.000
22	0.000	0.000	0.000
23	0.000	0.000	0.000
24	0.000	1.799	0.000
25	0.000	0.448	0.000
26	0.000	0.046	0.000
27	0.000	0.013	0.000
28	0.000	0.009	0.000
29	0.000	0.008	0.000
30	0.000	0.004	0.000
31	NA	0.001	NA
Monthly Average (cfs)	0.000	0.082	0.001

Monthly Discharge

Cubic Feet	0	220515	2473
Gallons	0	1649566	18497
Acre-Feet	0.00	5.06	0.06

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging Station SW027 is located 39° 53' 12" N, 105° 11' 4"W, at the South Interceptor Ditch above Pond C-2 (See Section 4 Map). This station is a RFCA Action Level Framework and a New Source Detection Location and monitors water in the South Interceptor Ditch entering Pond C-2. This station collects samples for selected radionuclides, metals, and water quality parameters using continuous flow-paced sampling.

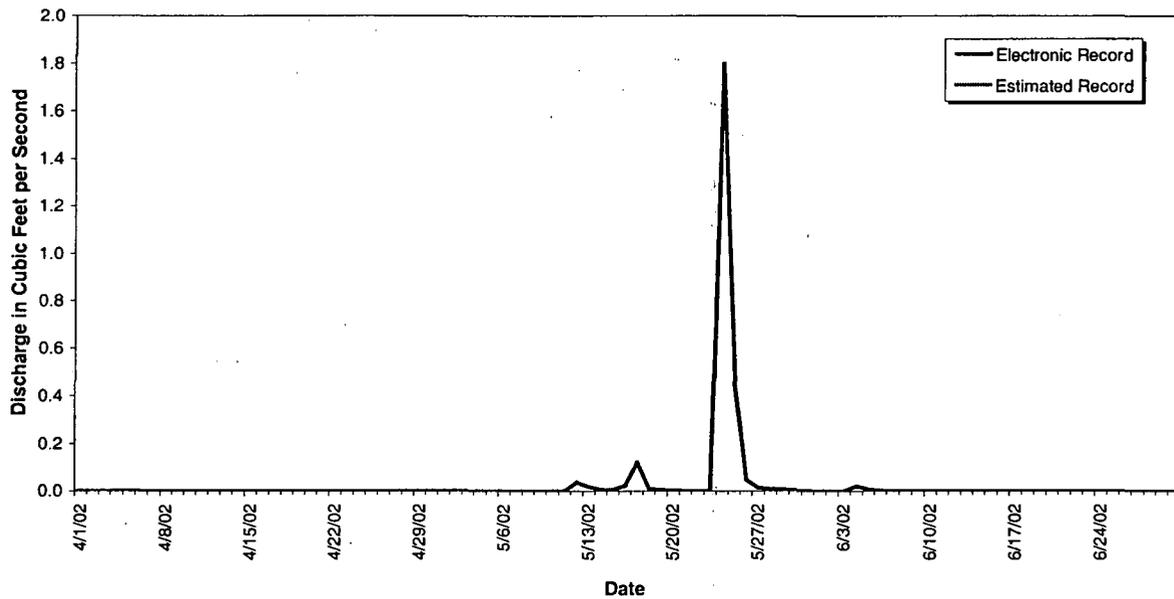


Figure 6-30. Mean Daily Discharge at SW027, Water Year 2002 (April, May, and June)

Table 6-31. Gaging Station SW036: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	No Data	No Data	No Data
2	No Data	No Data	No Data
3	No Data	No Data	No Data
4	No Data	No Data	No Data
5	No Data	No Data	No Data
6	No Data	No Data	No Data
7	No Data	No Data	No Data
8	No Data	No Data	No Data
9	No Data	No Data	No Data
10	No Data	No Data	No Data
11	No Data	No Data	No Data
12	No Data	No Data	No Data
13	No Data	No Data	No Data
14	No Data	No Data	0.000
15	No Data	No Data	0.000
16	No Data	No Data	0.000
17	No Data	No Data	0.000
18	No Data	No Data	0.000
19	No Data	No Data	0.000
20	No Data	No Data	0.000
21	No Data	No Data	0.000
22	No Data	No Data	0.000
23	No Data	No Data	0.000
24	No Data	No Data	0.000
25	No Data	No Data	0.000
26	No Data	No Data	0.000
27	No Data	No Data	0.000
28	No Data	No Data	0.000
29	No Data	No Data	0.000
30	No Data	No Data	0.000
31	NA	No Data	NA
Monthly Average (cfs)	No Data	No Data	0.000

Monthly Discharge

Cubic Feet	No Data	No Data	0
Gallons	No Data	No Data	0
Acre-Feet	No Data	No Data	0.00

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging station SW036 was installed as a Performance monitoring location in support of closure activities for the Old Lanfill adjacent to Woman Creek. SW036 is located at state plane 2082579, 747762 on the SID south of B664. The SW036 drainage area is approximately 16.4 acres. This station collects samples for Pu, Am, uranium isotopes, CLP metals, and TSS using continuous flow-paced composite sampling.

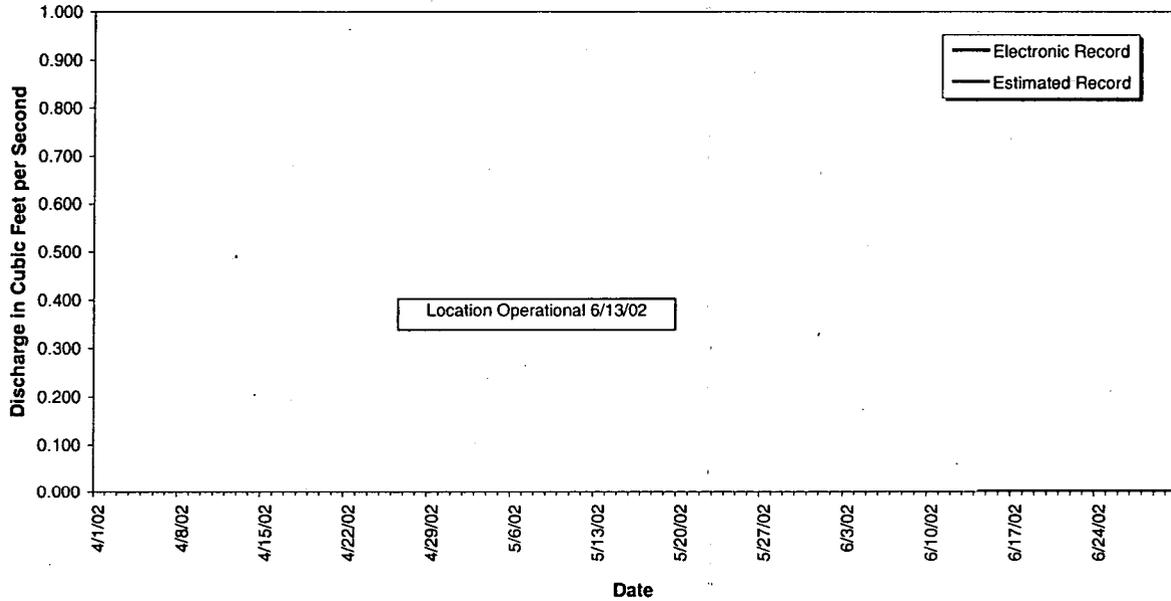


Figure 6-31. Mean Daily Discharge at SW036, Water Year 2002 (April, May, and June)

Table 6-32. Gaging Station SW055: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.0000	0.0000	0.0000
2	0.0000	0.0000a	0.0000
3	0.0000	0.0000a	0.0000
4	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000
24	0.0000	0.0134	0.0000
25	0.0000	0.0009	0.0000
26	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000
31	NA	0.0000	NA
Monthly Average (cfs)	0.000	0.000	0.000

Monthly Discharge

Cubic Feet	0	1238	0
Gallons	0	9264	0
Acre-Feet	0.00	0.03	0.00

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

^a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

A new Performance monitoring location was installed in support of remediation activities for the 903 Pad and Lip Area. Gaging station SW055 is located at state plane 2086059, 748501 on a drainage ditch southeast of the 903 Pad just inside of the inner security fence. This station monitors runoff from the southeast side of the 903 Pad area. The SW055 drainage area is approximately 17.3 acres. This station collects samples for Pu, Am, and TSS using continuous flow-paced composite sampling.

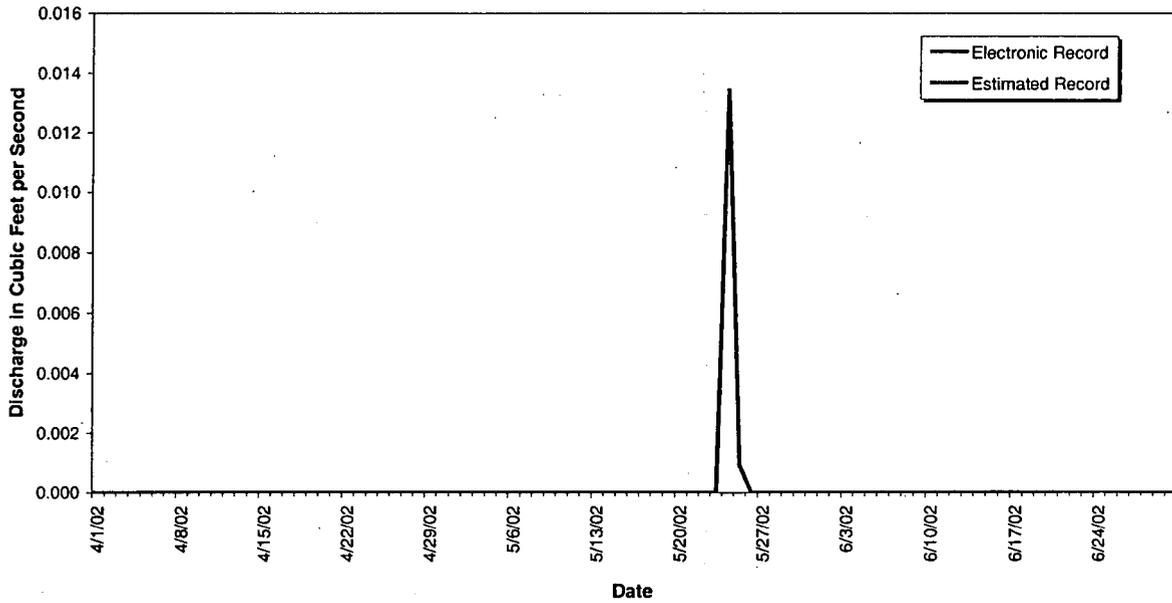


Figure 6-32. Mean Daily Discharge at SW055, Water Year 2002 (April, May, and June)

Table 6-33. Gaging Station SW091: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.000	0.000	0.000
2	0.000	0.000	0.000
3	0.000	0.000	0.000
4	0.000	0.000	0.000
5	0.000	0.000	0.000
6	0.000	0.000	0.000
7	0.000	0.000	0.000
8	0.000	0.000	0.000
9	0.000	0.000	0.000
10	0.000	0.000	0.000
11	0.000a	0.000	0.000
12	0.000	0.000	0.000
13	0.000	0.000	0.000
14	0.000	0.000	0.000
15	0.000	0.000	0.000
16	0.000	0.000	0.000
17	0.000	0.000	0.000
18	0.000	0.000	0.000
19	0.000	0.000	0.000
20	0.000	0.000	0.000
21	0.000a	0.000	0.000
22	0.000	0.000	0.000
23	0.000	0.000	0.000
24	0.000	0.000	0.000
25	0.000	0.000	0.000
26	0.000	0.000	0.000
27	0.000	0.000	0.000
28	0.000	0.000	0.000
29	0.000	0.000	0.000
30	0.000	0.000	0.000
31	NA	0.000	NA
Monthly Average (cfs)	0.000	0.000	0.000

Monthly Discharge

Cubic Feet	0	0	0
Gallons	0	0	0
Acre-Feet	0.00	0.00	0.00

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

^a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging Station SW091 is located at State Plane 2086064; 751322, along the drainage NE of the Solar Ponds draining to the A-Series Ponds (See Section 4 Map). This location is a RFCA New Source Detection Location and monitors water draining from the area NE of the Solar Ponds. Storm event samples are collected for selected radionuclides.

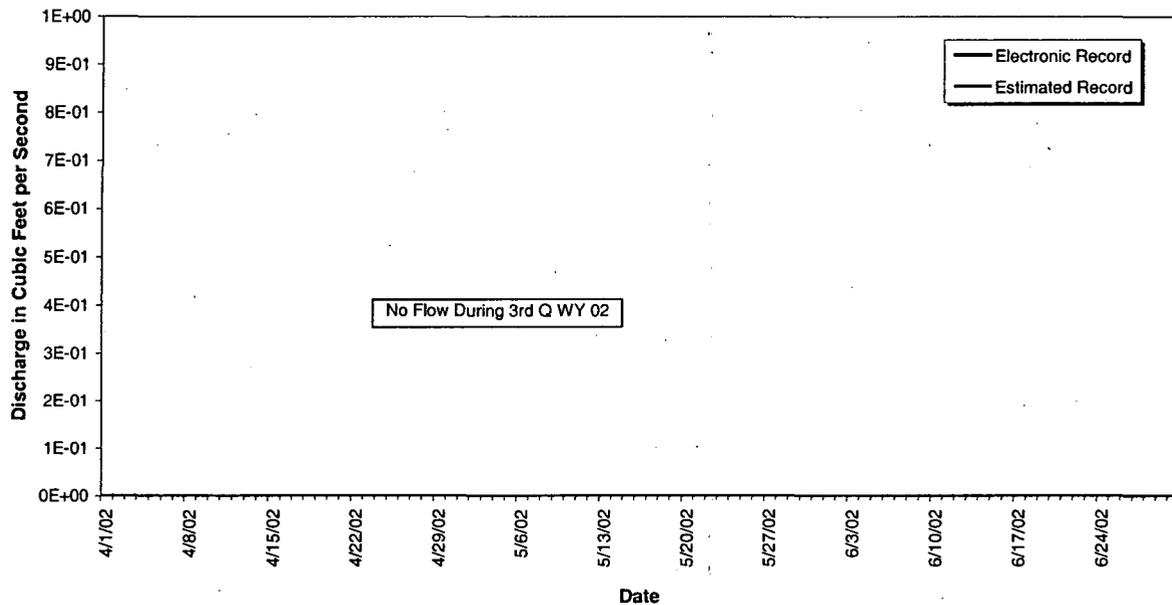


Figure 6-33. Mean Daily Discharge at SW091, Water Year 2002 (April, May, and June)

Table 6-34. Gaging Station SW093: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.081	0.074	0.107
2	0.084	0.073	0.101
3	0.086	0.043	0.152
4	0.086	0.043	0.417
5	0.088	0.049	0.123
6	0.090	0.053	0.096
7	0.092	0.052	0.088
8	0.096	0.057	0.087
9	0.084	0.050	0.083
10	0.075	0.047	0.080
11	0.073	0.252	0.080
12	0.069	0.594	0.080
13	0.064	0.080	0.079
14	0.063	0.079	0.065
15	0.065	0.065	0.066
16	0.061	0.354	0.074
17	0.059	0.198	0.074
18	0.056	0.100	0.076
19	0.057	0.092	0.144
20	0.065	0.112	0.121
21	0.057	0.096	0.091
22	0.051	0.092	0.099
23	0.045	1.548a	0.074
24	0.046	5.141a	0.053
25	0.048	0.692	0.052
26	0.049	0.310	0.054
27	0.049	0.206	0.050
28	0.040	0.166	0.051
29	0.036	0.144	0.054
30	0.034	0.133	0.050
31	NA	0.117	NA
Monthly Average (cfs)	0.065	0.358	0.094

Monthly Discharge

Cubic Feet	168369	960195	243403
Gallons	1259488	7182755	1820782
Acre-Feet	3.87	22.04	5.59

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

^a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging Station SW093 is located 39° 53' 51"N, 105° 11' 48"W, along North Walnut Creek at the 72" culvert 1000 feet above the Pond A-1 Bypass (See Section 4 Map). This station is a RFCA Action Level Framework and a New Source Detection Location and monitors water leaving the Site Industrial Area and entering the A-Series Ponds and North Walnut Creek. This station collects samples for selected radionuclides, metals, and water quality parameters using continuous flow-paced sampling.

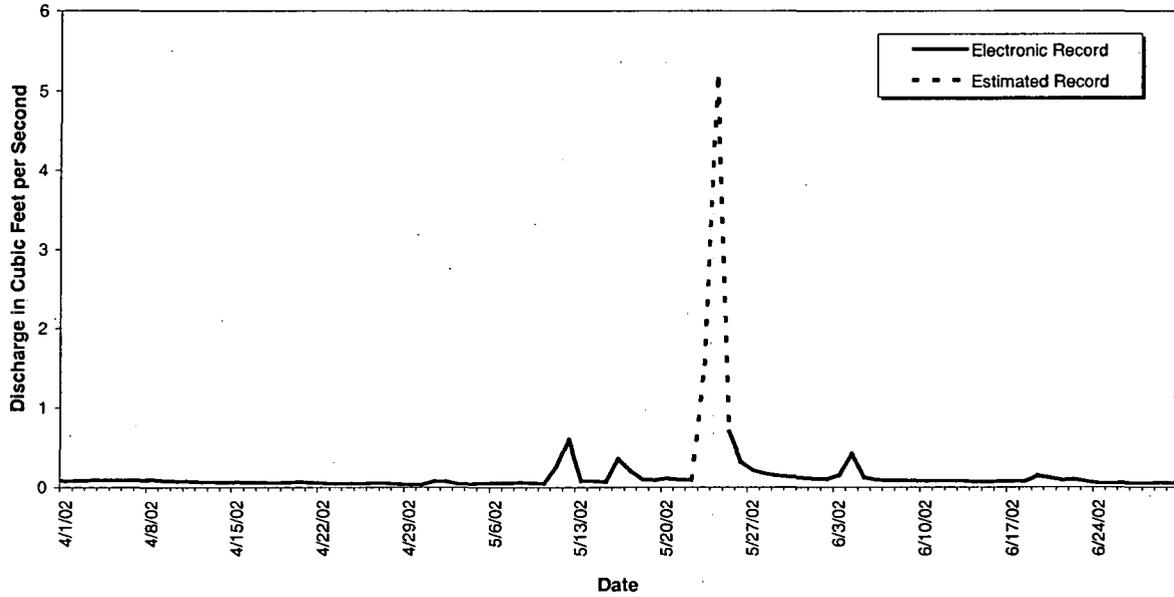


Figure 6-34. Mean Daily Discharge at SW093, Water Year 2002 (April, May, and June)

Table 6-35. Gaging Station SW118: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.0062	0.0025	0.0007
2	0.0082	0.0058	0.0008
3	0.0085	0.0019	0.0006
4	0.0064	0.0002	0.0299
5	0.0059	0.0008	0.0110
6	0.0054	0.0000	0.0023
7	0.0047	0.0000	0.0011
8	0.0073	0.0000	0.0006
9	0.0073	0.0000	0.0002
10	0.0068	0.0000	0.0000
11	0.0052	0.0107	0.0004
12	0.0043	0.0730	0.0000
13	0.0026	0.0129	0.0000
14	0.0007	0.0070	0.0000
15	0.0009	0.0034	0.0000
16	0.0006	0.0220	0.0000
17	0.0007	0.0306	0.0000
18	0.0002	0.0127	0.0000
19	0.0019	0.0041	0.0000
20	0.0063	0.0046	0.0000
21	0.0047	0.0042	0.0000
22	0.0021	0.0038	0.0000
23	0.0003	0.0829	0.0000
24	0.0000	0.7947	0.0000
25	0.0010	0.1646	0.0000
26	0.0021	0.0639	0.0000
27	0.0014	0.0269	0.0000
28	0.0002	0.0156	0.0000
29	0.0000	0.0076	0.0000
30	0.0000	0.0037	0.0000
31	NA	0.0009	NA
Monthly Average (cfs)	0.003	0.044	0.002

Monthly Discharge

Cubic Feet	8809	117608	4119
Gallons	65893	879769	30811
Acre-Feet	0.20	2.70	0.09

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Buffer Zone Hydrologic monitoring location SW118 is located at state plane 2082961, 751417 on North Walnut Creek northeast of B371 along the IA Perimeter Road. This station monitors runoff from the area northwest of the former PA. The SW118 drainage area is approximately 50 acres. This station collects flow data only.

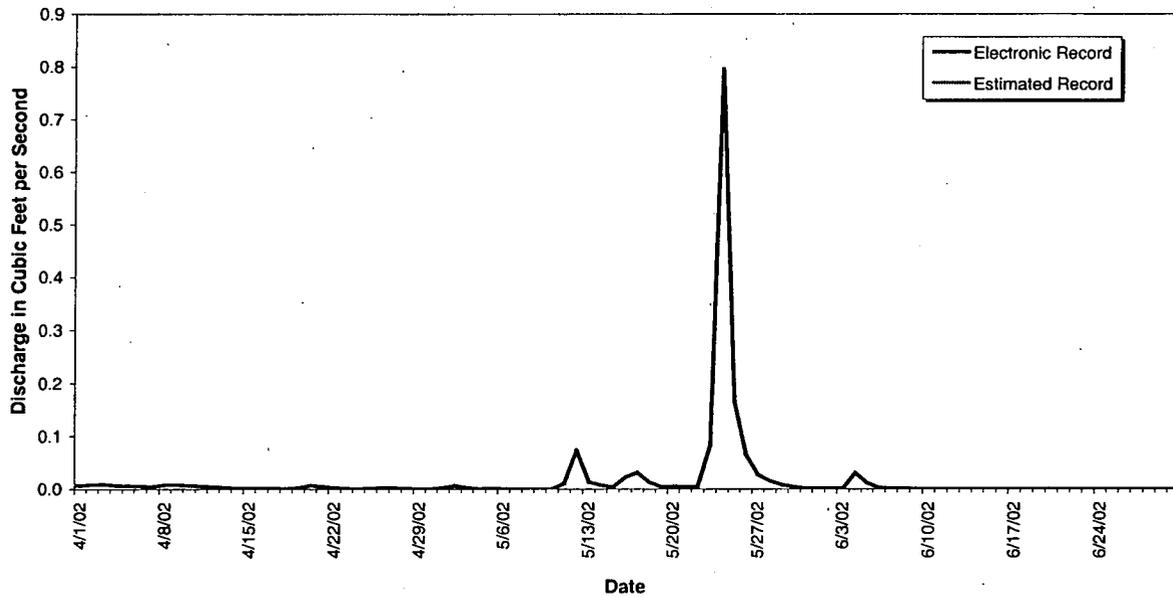


Figure 6-35. Mean Daily Discharge at SW118, Water Year 2002 (April, May, and June)

Table 6-36. Gaging Station SW119: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000
23	0.0000	0.0028	0.0000
24	0.0000	0.0355	0.0000
25	0.0000	0.0001	0.0000
26	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000
31	NA	0.0000	NA
Monthly Average (cfs)	0.000	0.001	0.000

Monthly Discharge

Cubic Feet	0	3318	0
Gallons	0	24819	0
Acre-Feet	0.00	0.08	0.00

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging station SW119 is located at state plane 2084723, 751268 on a drainage ditch north of Solar Pond 207A along the PA perimeter road and was installed in support of remediation activities for the Solar Ponds. This performance monitoring station monitors runoff from the east and north sides of the Solar Ponds and Triangle Area. The SW119 drainage area is approximately 7.6 acres. This station collects samples for Pu, Am, uranium isotopes, CLP metals, and TSS using continuous flow-paced composite sampling.

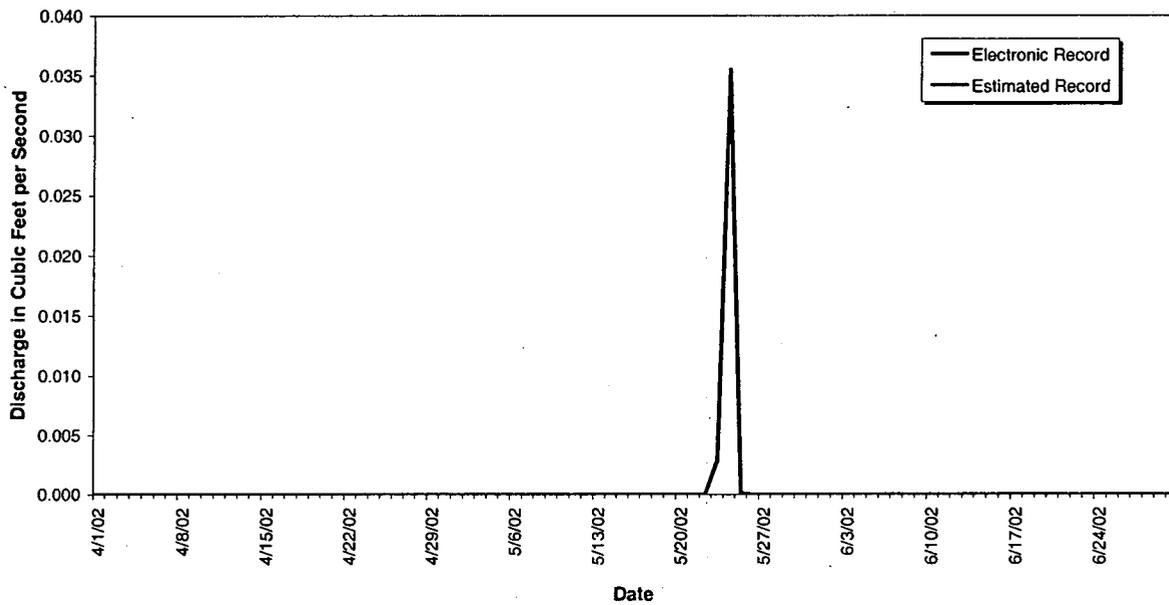


Figure 6-36. Mean Daily Discharge at SW119, Water Year 2002 (April, May, and June)

Table 6-37. Gaging Station SW120: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0065
5	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000
12	0.0000	0.0172	0.0000
13	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000
16	0.0000	0.0063	0.0000
17	0.0000	0.0057	0.0000
18	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000
23	0.0000	0.0362	0.0000
24	0.0000	0.1865	0.0000
25	0.0000	0.0203	0.0000
26	0.0000	0.0025	0.0000
27	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000
31	NA	0.0000	NA
Monthly Average (cfs)	0.000	0.009	0.000

Monthly Discharge

Cubic Feet	0	23742	562
Gallons	0	177604	4202
Acre-Feet	0.00	0.55	0.01

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging Station SW120 is located at state plane 2084681.6 E 751269 N, in the drainage ditch north of the Solar Ponds along the south side of the PA Perimeter Road. This location is a Performance monitoring location in support of D&D activities for the B771/774 area. SW120 also serves as a Source Location monitoring point in support of Source Evaluation efforts for POE SW093. This location collects continuous flow-paced samples that are analyzed for Pu, U, Am, CLP metals, and TSS.

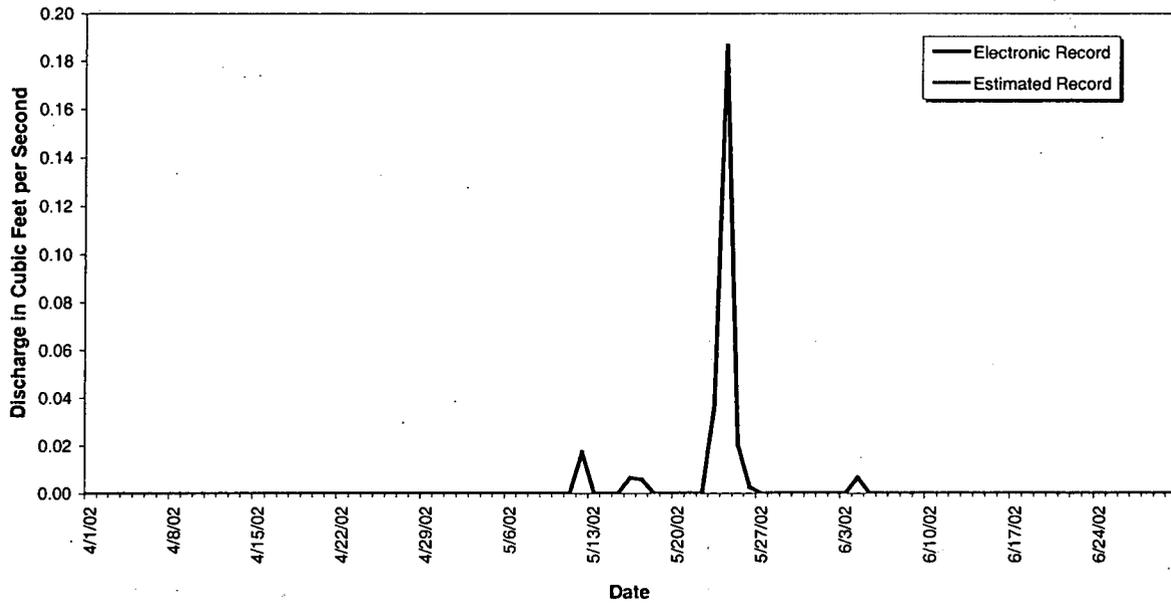


Figure 6-37. Mean Daily Discharge at SW120, Water Year 2002 (April, May, and June)

Table 6-38. Gaging Station SW134: Mean Daily Discharge (cubic feet per second)

Day	Apr-02	May-02	Jun-02
1	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000
3	0.4456	0.0000	0.0162
4	0.0542	0.0265	0.0010
5	0.0000	0.0000	0.0120
6	0.0000	0.0077	0.0000
7	0.0000	0.0000	0.0000
8	0.0385	0.0083	0.0076
9	0.0442	0.0000	0.0000
10	0.0000	0.0000	0.0023
11	0.0000	0.0000	0.0000
12	0.0000	0.0039	0.0022
13	0.0000	0.0000	0.0000
14	0.0000	0.0354	0.0019
15	0.0280	0.0000	0.0000
16	0.0258	0.0000	0.0000
17	0.0171	0.0000	0.0000
18	0.0000	0.0000	0.0025
19	0.0000	0.0000	0.0000
20	0.0000	0.0312	0.0000
21	0.0000	0.0078	0.0000
22	0.0277	0.0000	0.0000
23	0.0000	0.0110	0.0000
24	0.0000	0.0738	0.0000
25	0.0000	0.0033	0.0029
26	0.0175	0.0000	0.0000
27	0.0000	0.0000	0.0000
28	0.0000	0.2593	0.0000
29	0.0132	0.0177	0.0000
30	0.0000	0.0000	0.0000
31	NA	0.0182	NA
Monthly Average (cfs)	0.024	0.016	0.002

Monthly Discharge

Cubic Feet	61495	43560	4206
Gallons	460014	325855	31466
Acre-Feet	1.41	1.00	0.10

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Buffer Zone Hydrologic monitoring location SW134 is located at state plane 2075942, 750049 on a tributary to Rock Creek at the northeast corner of the gravel pits north of the West Access Road. This station monitors runoff and pumped discharges from the gravel pits. This station collects samples for sediment/sand, Ca, Mg, Na, K, Cl, F, SO₄, HCO₃, and TSS using rising-limb, flow-paced composite sampling.

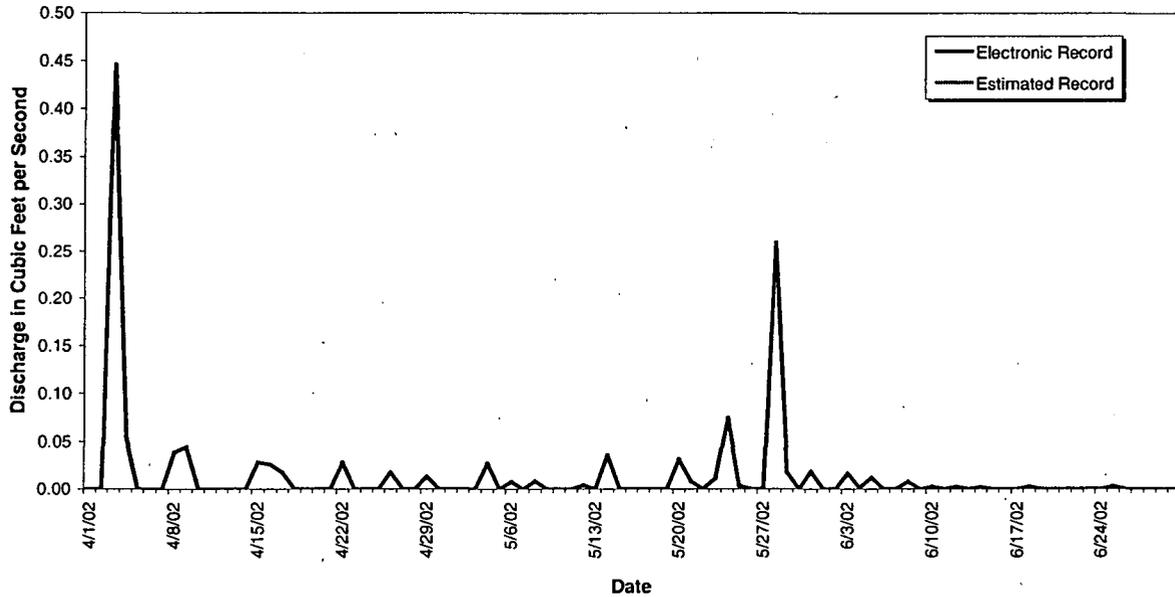


Figure 6-38. Mean Daily Discharge at SW134, Water Year 2002 (April, May, and June)

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6.2 WATER QUALITY DATA

Table 6-39. Radionuclides, Water Year 2002 (April, May, and June)

Location	Sample Dates	Result	Result	Result	Result
		Pu-239, -240 [pCi/l]	Am-241 [pCi/l]	Total Uranium [pCi/l]	Tritium [pCi/l]
GS01	3/22 - 4/8/02	-0.001	-0.007	a	-6
GS01	4/8 - 5/28/02	0.001	-0.002	a	110
GS01	5/28/02 -	b	b	a	b
GS03	4/3 - 5/16/02	c	c	a	c
GS03	5/16 - 5/17/02	0.005	0.016	a	-50
GS03	5/17 - 5/20/02	0.028	0.006	a	205
GS03	5/20 - 5/22/02	0.009	0.007	a	55
GS03	5/22 - 5/28/02	0.001	0.009	a	80
GS03	5/28 - 6/4/02	0.010	0.009	a	0
GS03	6/4 - 7/11/02	c	c	a	c
GS08	5/16 - 5/21/02	-0.001	0.005	0.573	a
GS08	5/21 - 5/28/02	0.003	0.002	0.899	a
GS08	5/28 - 6/3/02	0.001	0.001	0.654	a
GS10	4/3 - 5/3/02	0.081	0.176	5.859	a
GS10	5/3 - 5/17/02	0.020	0.113	1.942	a
GS10	5/17 - 5/24/02	0.014	0.139	0.858	a
GS10	5/24 - 5/28/02	0.123	0.034	1.257	a
GS10	5/28 - 6/10/02	0.082	0.069	4.189	a
GS10	6/10 - 7/8/02	0.024	0.046	4.223	a
GS11	5/16 - 5/20/02	-0.001	0.004	3.059	a
GS11	5/20 - 5/23/02	0.001	-0.001	2.662	a
GS22	1/17 - 4/5/02	0.002	-0.001	1.214	a
GS22	4/5 - 5/13/02	-0.001	-0.001	0.714	a
GS22	5/13 - 5/29/02	-0.003	0.003	0.423	a
GS22	5/29 - 6/24/02	0.003	0.008	1.006	a
GS22	6/24 - 8/6/02	d	d	d	a
GS27	5/16/02	0.920	0.987	1.654	a
GS27	5/23/02	10.500	3.460	1.012	a
GS28	5/23 - 5/24/02	0.124	0.028	0.562	a
GS28	5/24 - 8/5/02	0.013	0.013	0.457	a
GS28	8/5/02 -	b	b	b	a

- a Not applicable
- b Composite sample in progress
- c Non-sufficient quantity
- d Incomplete analysis

Table 5-35. Radionuclides, Water Year 2002 (April, May, and June), continued

Location	Sample Dates	Result Pu-239, -240 [pCi/l]	Result Am-241 [pCi/l]	Result Total Uranium [pCi/l]	Result Tritium [pCi/l]
GS32	5/1/02	0.206	0.207	3.681	-116
GS32	5/11/02	0.304	0.400	2.175	51
GS32	5/16/02	0.144	0.595	1.370	65
GS32	5/24/02	0.046	0.078	0.919	112
GS32	6/3/02	0.148	0.378	1.621	-53
GS32	6/19/02	0.737	1.360	1.834	-54
GS39	9/13/01 - 5/16/02	0.066	0.012	0.242	a
GS39	5/16 - 5/24/02	0.045	0.013	0.147	a
GS39	5/24 - 6/3/02	0.049	0.012	0.142	a
GS39	6/3 - 8/6/02	b	b	b	a
GS40	3/13 - 5/3/02	0.005	0.024	6.525	-48
GS40	5/3 - 5/29/02	0.025	0.016	2.576	164
GS40	5/29 - 6/20/02	0.026	0.011	4.628	-27
GS40	6/20 - 8/6/02	b	b	b	b
GS43	7/15/01 - 5/24/02	0.075	0.017	5.434	a
GS43	5/24/02 -	c	c	c	a
GS44	5/1 - 5/24/02	0.006	0.018	0.465	26
GS44	5/24 - 6/4/02	0.004	0.010	2.343	54
GS44	6/4/02 -	c	c	c	c
GS49	4/21 - 5/23/02	0.004	0.001	2.723	-27
GS49	5/23 - 5/24/02	0.002	0.025	0.436	-84
GS49	5/24 - 8/5/02	0.006	0.004	0.088	-161
GS50	8/9/01 - 5/24/02	0.046	0.138	0.190	a
GS50	5/24/02 -	c	c	c	a
GS51	5/24/02 -	c	c	c	a
GS52	5/24/02 - *	0.370	0.065	2.860	a
GS55	4/10 - 5/3/02	-0.001	-0.003	6.808	a
GS55	5/3 - 5/13/02	0.005	-0.006	2.854	a
GS55	5/13 - 5/21/02	0.014	0.000	3.236	a
GS55	5/21 - 5/24/02	0.048	0.013	0.761	a
GS55	5/24 - 5/30/02	-0.003	-0.007	2.123	a
GS55	5/30 - 6/5/02	-0.001	0.002	2.542	a
GS55	6/5 - 6/20/02	0.006	-0.001	4.468	a
GS55	6/20 - 8/1/02	b	b	b	a
GS57	4/5 - 5/16/02	0.005	0.001	0.276	a

- a Not applicable
- b Incomplete analysis
- c Composite sample in progress

Table 5-35. Radionuclides, Water Year 2002 (April, May, and June), continued

Location	Sample Dates	Result Pu-239, -240 [pCi/l]	Result Am-241 [pCi/l]	Result Total Uranium [pCi/l]	Result Tritium [pCi/l]
GS57	5/16 - 5/24/02	0.015	0.001	0.598	a
GS57	5/24 - 6/3/02	-0.005	0.001	0.240	a
GS57	6/3 - 8/6/02	b	b	b	a
GS58	4/6/02	0.007	0.013	8.634	a
GS58	4/24/02	0.001	-0.003	7.741	a
GS58	5/4/02	0.001	-0.002	4.562	a
GS58	5/16/02	-0.001	-0.002	5.455	a
GS58	5/23/02	0.338	0.199	0.805	a
SW022	3/11 - 5/14/02	0.040	0.026	1.470	a
SW022	5/14 - 5/24/02	0.244	0.073	0.810	a
SW022	5/24 - 6/3/02	0.024	0.007	0.664	a
SW022	6/3 - 8/6/02	b	b	b	a
SW027	5/12 - 5/24/02	0.001	0.002	0.428	a
SW027	5/24 - 5/28/02	0.001	-0.001	0.459	a
SW027	5/28/02 -	c	c	c	a
SW055	5/28/01 - 5/24/02	3.160	0.557	2.908	a
SW055	5/24/02 (6:20-13:43)	0.432	0.084	0.117	a
SW055	5/24/02 - *	0.180	0.033	0.096	a
SW093	3/27 - 4/8/02	0.014	0.004	3.607	a
SW093	4/8 - 5/6/02	0.009	0.010	4.977	a
SW093	5/6 - 5/17/02	0.002	0.015	2.374	a
SW093	5/17 - 5/24/02	-0.002	0.034	1.058	a
SW093	5/24 - 5/28/02	-0.006	0.003	1.865	a
SW093	5/28 - 6/5/02	0.002	0.000	2.698	a
SW093	6/5 - 6/24/02	0.020	0.012	4.489	a
SW093	6/24 - 7/17/02	b	b	b	a
SW119	8/9/01 - *	0.074	0.096	0.594	a
SW120	4/21 - 5/24/02	0.050	0.104	1.203	79
SW120	5/24 - 6/4/02	0.032	0.040	1.325	27
SW120	6/4/02 -	c	c	c	c
995POE	4/9 - 5/13/02	-0.001	-0.001	0.185	132
995POE	5/13 - 6/10/02	-0.001	0.009	0.192	28
995POE	6/10 - 7/8/02	0.006	-0.002	0.157	50

- a Not applicable
- b Incomplete analysis
- c Composite sample in progress

Table 6-40. POE Metals, Water Year 2002 (April, May, and June)

Location	Sample Dates	Analyte Be ug/L	Analyte Dissolved Cd ug/L	Analyte Cr ug/L	Analyte Dissolved Ag ug/L
GS10	4/3 - 5/3/02	0.050	< 0.08	0.71	< 0.12
GS10	5/3 - 5/17/02	0.310	0.090	6.70	< 0.12
GS10	5/17 - 5/24/02	0.540	< 0.08	12.40	< 0.12
GS10	5/24 - 5/28/02	< 0.10	< 0.08	5.30	< 0.12
GS10	5/28 - 6/10/02	0.110	0.080	2.20	< 0.12
GS10	6/10 - 7/8/02	0.090	< 0.08	2.20	< 0.12
SW027	5/12 - 5/24/02	0.22	< 0.08	4.3	< 0.12
SW027	5/24 - 5/28/02	< 0.10	< 0.08	1.7	< 0.12
SW027	5/28/02 -	a	a	a	a
SW093	4/8 - 5/6/02	0.07	< 0.08	1.3	< 0.12
SW093	5/6 - 5/17/02	0.37	0.1	7.7	< 0.12
SW093	5/17 - 5/24/02	0.78	< 0.08	16.8	< 0.12
SW093	5/24 - 5/28/02	< 0.10	0.11	2	< 0.12
SW093	5/28 - 6/5/02	0.08	< 0.08	1.9	< 0.12
SW093	6/5 - 6/24/02	0.14	< 0.08	3.3	< 0.12
SW093	6/24 - 7/17/02	b	b	b	b

- a Composite sample in progress
- b Incomplete analysis

Table 6-41. Other Metals, Water Year 2002 (April, May, and June)

Analyte ug/l	Result GS22: 4/5/02 – 5/13/02	Result GS22: 5/13/02 – 5/29/02	Result GS22: 5/29/02 – 6/24/02	Result GS22: 6/24/02 – 8/6/02	Result GS28: 5/23/02 – 5/24/02
Aluminum	2200	2600	2810	a	3920
Antimony	< 0.55	0.91	1.2	a	< 0.55
Arsenic	2.3	1.9	1.9	a	2.8
Barium	135	53.7	162	a	40.2
Beryllium	0.11	0.17	0.1	a	0.16
Cadmium	0.11	0.1	0.13	a	0.22
Calcium	70300	20700	76500	a	11300
Chromium	4.3	5.3	6	a	4.6
Cobalt	0.67	0.82	0.88	a	1.4
Copper	15.4	11.5	11.4	a	12.1
Iron	2190	2570	2800	a	3370
Lead	6.4	7.1	8.8	a	5.5
Lithium	13.3	5.7	11.2	a	4.3
Magnesium	11500	3480	12100	a	1650
Manganese	58	47.8	55.8	a	52.1
Mercury	< 0.10	< 0.10	< 0.10	a	< 0.10
Molybdenum	1.2	1.1	0.91	a	1.3
Nickel	2.9	2.8	3.5	a	4.1
Potassium	3360	2110	3640	a	2140
Selenium	< 0.88	< 0.88	< 0.88	a	< 0.88
Silver	< 0.12	< 0.12	< 0.12	a	< 0.12
Sodium	105000	18300	44800	a	13300
Strontium	345	99.1	364	a	48.5
Thallium	< 0.78	< 0.78	< 0.78	a	< 0.78
Tin	< 0.78	< 0.78	< 0.78	a	< 0.78
Vanadium	5.5	6.3	7.4	a	9
Zinc	304	227	208	a	159

a Incomplete analysis

Table 6-41. Other Metals, Water Year 2002 (April, May, and June) continued

Analyte ug/l	Result GS28, 5/24/02 - 8/5/02	Result GS32, 5/1/02	Result GS32, 5/11/02	Result GS32, 5/16/02	Result GS32, 5/24/02
Aluminum	416	2230	6620	19000	906
Antimony	0.89	7.8	10.6	15.8	3.6
Arsenic	< 0.62	2	3.7	8	1.3
Barium	25.2	184	173	174	18.8
Beryllium	0.11	0.16	0.39	0.89	0.14
Cadmium	< 0.08	1.5	1.4	1.3	< 0.08
Calcium	11300	82900	76200	44500	12600
Chromium	1.1	19.6	10.3	24.7	2.4
Cobalt	< 0.18	2.4	3.6	6.8	0.28
Copper	5.3	35.4	38.6	55.9	7.4
Iron	280	2970	7510	18500	707
Lead	0.54	7.4	17.7	44	1.9
Lithium	1.9	46.7	48.5	40.7	5.8
Magnesium	1260	7620	9980	8960	1560
Manganese	3.5	222	288	381	12.9
Mercury	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Molybdenum	0.53	3.8	5.1	5.1	1.5
Nickel	0.79	16.1	10.1	19.1	1.2
Potassium	1610	41600	26700	14000	5230
Selenium	< 0.88	1.5	< 0.88	2	< 0.88
Silver	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Sodium	13400	1030000	754000	212000	29700
Strontium	61.2	711	632	278	73.5
Thallium	< 0.78	0.78	< 0.78	< 0.78	< 0.78
Tin	< 0.78	1.5	< 0.78	< 0.78	< 0.78
Vanadium	1.7	7.2	17	45.5	4.5
Zinc	69.3	8150	6730	2240	143

Table 6-41. Other Metals, Water Year 2002 (April, May, and June) continued

Analyte ug/l	Result GS32, 6/3/02	Result GS32, 6/19/02	Result GS40, 3/13/02 – 5/3/02	Result GS40, 5/3/02 – 5/29/02	Result GS40, 5/29/02 – 6/20/02
Aluminum	9260	23300	1830	3670	2710
Antimony	9.4	21.3	17.9	20.5	12.1
Arsenic	3	9.2	3.9	2.8	3.3
Barium	100	259	705	398	533
Beryllium	0.6	0.97	0.12	0.28	0.11
Cadmium	0.52	2.2	1.7	0.98	0.83
Calcium	28000	63100	214000	107000	170000
Chromium	13.4	49.6	3.3	4.7	3.7
Cobalt	3.4	9.6	1.5	1.6	1.4
Copper	29.7	77.7	9.6	11.4	9
Iron	8580	25600	14100	10300	6470
Lead	20	60.3	3.8	6.1	4.6
Lithium	17.9	37.4	50.1	21.7	19.1
Magnesium	4530	9440	48100	28000	48300
Manganese	186	573	1050	599	1240
Mercury	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Molybdenum	2.3	4.3	1.7	2.2	2.1
Nickel	10.2	33.1	4	4	3.3
Potassium	10500	19500	9730	10400	11600
Selenium	0.89	1.1	< 0.88	< 0.88	< 0.88
Silver	< 0.12	0.22	< 0.12	< 0.12	< 0.12
Sodium	79500	93800	1080000	362000	2530000
Strontium	157	261	1650	893	1450
Thallium	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78
Tin	0.87	1.5	< 0.78	1.1	< 0.78
Vanadium	23	59.9	5.4	8.4	6.5
Zinc	669	1980	568	454	416

- a Incomplete analysis
- b Composite sample in progress
- * Sampler waiting to trigger on next flow period

Table 6-41. Other Metals, Water Year 2002 (April, May, and June) continued

Analyte ug/l	Result GS40, 6/20/02 - 8/6/02	Result GS43, 7/15/01 - 5/24/02	Result GS43, 5/24/02	Result GS44, 5/1/02 - 5/24/02	Result GS44, 5/24/02 - 6/4/02
Aluminum	a	16700	b	9520	3600
Antimony	a	0.87	b	0.57	0.99
Arsenic	a	6.3	b	3.8	1.2
Barium	a	117	b	77.8	104
Beryllium	a	0.66	b	0.39	0.26
Cadmium	a	0.22	b	< 0.08	< 0.08
Calcium	a	47100	b	15700	50800
Chromium	a	21.4	b	10.3	4.3
Cobalt	a	3.9	b	2.3	0.62
Copper	a	16.9	b	15	7.6
Iron	a	11800	b	7740	2350
Lead	a	15.5	b	8.3	2.8
Lithium	a	17.9	b	18.9	34.5
Magnesium	a	10000	b	4030	8820
Manganese	a	134	b	98.4	21.7
Mercury	a	< 0.10	b	< 0.10	< 0.10
Molybdenum	a	5	b	1.9	2.6
Nickel	a	18.2	b	7.9	3.8
Potassium	a	7060	b	6390	9050
Selenium	a	2.7	b	1.2	1.6
Silver	a	< 0.12	b	1.1	< 0.12
Sodium	a	34100	b	67400	56500
Strontium	a	301	b	87.5	282
Thallium	a	< 0.78	b	< 0.78	< 0.78
Tin	a	< 0.78	b	< 0.78	< 0.78
Vanadium	a	32.4	b	20.5	7.5
Zinc	a	140	b	159	113

- a Incomplete analysis
- b Composite sample in progress

Table 6-41. Other Metals, Water Year 2002 (April, May, and June) continued

Analyte ug/l	Result GS44, 6/4/02	Result GS49, 4/21/02 - 5/23/02	Result GS49, 5/23/02 - 5/24/02	Result GS49, 5/24/02 - 8/5/02	Result GS50, 8/9/01 - 5/24/02
Aluminum	a	6170	164000	2350	1940
Antimony	a	0.87	1.4	1.6	0.65
Arsenic	a	2.6	7	1.4	2.2
Barium	a	51.1	80.7	21.9	25.3
Beryllium	a	0.28	0.74	0.09	0.07
Cadmium	a	0.09	< 0.08	1	0.11
Calcium	a	6640	9610	3970	10200
Chromium	a	13	16	4.5	4.7
Cobalt	a	1.5	4.3	0.44	0.52
Copper	a	50.7	23.1	19.8	6
Iron	a	4620	13700	1610	1410
Lead	a	6.3	11.6	3.1	10.9
Lithium	a	5.7	12.8	2.1	2.2
Magnesium	a	1600	3360	758	1290
Manganese	a	90.8	168	18.6	18.1
Mercury	a	< 0.10	< 0.10	< 0.10	< 0.10
Molybdenum	a	1.1	1.7	12.6	1.1
Nickel	a	5.3	13.3	2.2	2.2
Potassium	a	1540	3370	1480	5180
Selenium	a	0.97	1.8	< 0.88	< 0.88
Silver	a	< 0.12	< 0.12	< 0.12	< 0.12
Sodium	a	36400	16300	9370	9590
Strontium	a	33.2	49.6	19.1	36.2
Thallium	a	< 0.78	< 0.78	< 0.78	< 0.78
Tin	a	< 0.78	< 0.78	< 0.78	< 0.78
Vanadium	a	11.3	32.4	4.6	5.1
Zinc	a	171	152	96.4	19.8

a Composite sample in progress

Table 6-41. Other Metals, Water Year 2002 (April, May, and June) continued

Analyte ug/l	Result GS50, 5/24/02	Result GS55, 4/10/02 - 5/3/02	Result GS55, 5/3/02 - 5/13/02	Result GS55, 5/13/02 - 5/21/02	Result GS55, 5/21/02 - 5/24/02
Aluminum	a	405	1940	3680	7920
Antimony	a	< 0.55	< 0.55	1.1	0.59
Arsenic	a	1.6	1.9	2.2	2.9
Barium	a	246	136	161	73.2
Beryllium	a	0.03	0.11	0.16	0.32
Cadmium	a	0.7	0.16	0.1	0.21
Calcium	a	121000	58600	71900	17100
Chromium	a	0.8	2.2	3.8	8.3
Cobalt	a	0.34	0.62	0.92	1.8
Copper	a	2.3	8.3	9	13.5
Iron	a	715	1520	2900	5870
Lead	a	0.93	1.7	3.3	9.5
Lithium	a	25.5	15.2	19.2	8.7
Magnesium	a	36900	18000	21200	4830
Manganese	a	171	106	153	86.4
Mercury	a	< 0.10	< 0.10	< 0.10	< 0.10
Molybdenum	a	2.1	1.6	2	1.5
Nickel	a	1.9	2.4	3.4	6.3
Potassium	a	3940	3060	3120	2740
Selenium	a	< 0.88	< 0.88	1.3	< 0.88
Silver	a	< 0.12	< 0.12	< 0.12	< 0.12
Sodium	a	91800	87800	78000	38000
Strontium	a	991	481	578	119
Thallium	a	< 0.78	1.2	< 0.78	< 0.78
Tin	a	1.1	< 0.78	< 0.78	< 0.78
Vanadium	a	1.1	4	7.4	17.6
Zinc	a	13.1	80.6	79.4	146

a Composite sample in progress

Table 6-41. Other Metals, Water Year 2002 (April, May, and June) continued

Analyte ug/l	Result GS55, 5/24/02 - 5/30/02	Result GS55, 5/30/02 - 6/5/02	Result GS55, 6/5/02 - 6/20/02	Result GS55, 6/20/02 - 8/1/02	Result GS57, 4/5/02 - 5/16/02
Aluminum	818	655	577	a	3690
Antimony	1.1	0.79	1.5	a	< 0.55
Arsenic	< 0.62	< 0.62	1.1	a	2.6
Barium	78.5	124	225	a	34.7
Beryllium	0.14	0.16	0.04	a	0.18
Cadmium	0.42	< 0.08	0.23	a	0.35
Calcium	42400	66200	120000	a	11200
Chromium	1.5	1.2	0.91	a	4.5
Cobalt	0.32	0.24	0.52	a	0.78
Copper	4.4	6	4.1	a	14.2
Iron	636	774	863	a	2450
Lead	1.3	0.91	0.96	a	3.3
Lithium	8	12.8	21.1	a	8
Magnesium	10600	17300	33200	a	2310
Manganese	36.1	107	204	a	44.8
Mercury	< 0.10	< 0.10	< 0.10	a	< 0.10
Molybdenum	1.5	1.9	1.7	a	3.6
Nickel	1.3	1.5	1.7	a	4.4
Potassium	2540	3860	5000	a	3620
Selenium	< 0.88	1.1	1.1	a	< 0.88
Silver	< 0.12	< 0.12	< 0.12	a	< 0.12
Sodium	45300	62600	61900	a	138000
Strontium	320	521	954	a	53.2
Thallium	< 0.78	< 0.78	< 0.78	a	< 0.78
Tin	< 0.78	< 0.78	< 0.78	a	< 0.78
Vanadium	2.3	2	1.4	a	6.8
Zinc	55.2	43.1	25.3	a	441

a Incomplete analysis

Table 6-41. Other Metals, Water Year 2002 (April, May, and June) continued

Analyte ug/l	Result GS57, 5/16/02 - 5/24/02	Result GS57, 5/24/02 - 6/3/02	Result GS57, 6/3/02 - 8/6/02	Result GS58, 4/6/02	Result GS58, 4/24/02
Aluminum	7360	1310	a	47.4	36.7
Antimony	1.5	1.2	a	0.99	0.81
Arsenic	4.1	3.3	a	< 0.62	0.74
Barium	54.2	46.5	a	161	169
Beryllium	0.32	0.16	a	0.08	< 0.10
Cadmium	0.25	0.4	a	0.17	0.22
Calcium	8190	23500	a	69000	80900
Chromium	9.6	3.2	a	4	0.33
Cobalt	2.4	0.28	a	0.17	< 0.18
Copper	19.4	6	a	2.7	4.9
Iron	6790	821	a	79.7	30.4
Lead	9.3	1.5	a	1.3	1.2
Lithium	10.5	3.4	a	24.8	27.5
Magnesium	3040	2890	a	39100	38500
Manganese	105	12	a	5.3	5.6
Mercury	< 0.10	< 0.10	a	< 0.10	< 0.10
Molybdenum	8	3.2	a	3.9	3.6
Nickel	7.4	2.4	a	1.2	1.2
Potassium	4060	2570	a	2980	2720
Selenium	0.92	< 0.88	a	1.6	2.1
Silver	0.4	< 0.12	a	< 0.12	< 0.12
Sodium	44400	62000	a	84800	88400
Strontium	39.9	97.3	a	960	979
Thallium	< 0.78	< 0.78	a	< 0.78	< 0.78
Tin	< 0.78	< 0.78	a	< 0.78	< 0.78
Vanadium	15.6	3.1	a	3.2	3
Zinc	335	400	a	130	163

a Incomplete analysis

Table 6-41. Other Metals, Water Year 2002 (April, May, and June) continued

Analyte ug/l	Result GS58, 5/4/02	Result GS58, 5/16/02	Result GS58, 5/23/02	Result SW119, 8/9/01 - *	Result SW120, 4/21/02 - 5/24/02
Aluminum	54.4	45.8	14900	3560	6090
Antimony	< 0.55	< 0.55	1.7	1.7	1.1
Arsenic	0.93	1.1	3.4	1.6	4.4
Barium	127	132	144	62.9	98.9
Beryllium	0.03	0.04	0.72	0.26	0.3
Cadmium	0.16	< 0.08	< 0.08	0.17	0.15
Calcium	50300	62800	20700	20200	32800
Chromium	0.57	0.56	15.3	3.9	8.1
Cobalt	< 0.18	< 0.18	6	0.82	1.9
Copper	5.2	3.3	17.3	7.4	13.1
Iron	37.8	33.3	11000	2280	5470
Lead	1.7	0.65	13.9	2.4	6.3
Lithium	17.1	18.1	11.8	15.1	17.7
Magnesium	24400	22500	3690	4710	7990
Manganese	2.9	4.1	158	23.5	96.3
Mercury	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Molybdenum	2.7	3.9	1.2	1.5	1.2
Nickel	0.62	0.71	10.3	3.6	6.2
Potassium	1140	3260	3620	8010	8310
Selenium	1.7	2	1.1	< 0.88	1.9
Silver	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Sodium	56200	79900	6020	84000	135000
Strontium	614	672	81.8	147	204
Thallium	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78
Tin	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78
Vanadium	2.3	2.5	34.3	8.2	13.8
Zinc	110	73.4	147	62.2	135

* Sampler waiting to trigger on next flow period

Table 6-41. Other Metals, Water Year 2002 (April, May, and June) continued

Analyte ug/l	Result SW120, 5/24/02 - 6/4/02	Result SW120, 6/4/02 -
Aluminum	2320	a
Antimony	2.2	a
Arsenic	2.1	a
Barium	82.8	a
Beryllium	0.21	a
Cadmium	< 0.08	a
Calcium	35500	a
Chromium	3.6	a
Cobalt	0.51	a
Copper	7	a
Iron	1580	a
Lead	1.8	a
Lithium	14	a
Magnesium	7050	a
Manganese	19.1	a
Mercury	< 0.10	a
Molybdenum	1.4	a
Nickel	3	a
Potassium	8650	a
Selenium	< 0.88	a
Silver	< 0.12	a
Sodium	111000	a
Strontium	212	a
Thallium	< 0.78	a
Tin	< 0.78	a
Vanadium	5	a
Zinc	133	a

a Composite sample in progress

Table 6-42. Water Quality Parameters, Water Year 2002 (April, May, and June)

Location	Sample Dates	Analyte Hardness mg/L
GS10	4/3 - 5/3/02	520
GS10	5/3 - 5/17/02	191
GS10	5/17 - 5/24/02	96.9
GS10	5/24 - 5/28/02	117
GS10	5/28 - 6/10/02	380
GS10	6/10 - 7/8/02	a
SW027	5/12 - 5/24/02	121
SW027	5/24 - 5/28/02	94
SW027	5/28/02 -	b
SW093	4/8 - 5/6/02	508
SW093	5/6 - 5/17/02	350
SW093	5/17 - 5/24/02	179
SW093	5/24 - 5/28/02	260
SW093	5/28 - 6/5/02	404
SW093	6/5 - 6/24/02	465
SW093	6/24 - 7/17/02	a

- a Incomplete analysis
- b Composite sample in progress

Table 6-43. Buffer Zone/Hydrologic Water Quality Parameters, Water Year 2002 (April, May, and June)

Analyte mg/l	Result GS01, 5/24/02	Result GS03, 5/24/02	Result GS04, 5/24/02	Result GS05, 5/23/03	Result GS06, 5/23/02	Result SW134, 4/22/02
TSS	a	a	a	a	a	35.4
Calcium	69.7	51.4	35.2	27.6	17.6	31.1
Magnesium	18	10.3	8.5	11.2	12.4	6.66
Sodium	47.2	79.7	23.9	44	5.74	17.5
Potassium	3.4	8.89	5.15	9.56	13.9	1.57
Chloride	103	156	26.5	67.4	9.5	11.3
Fluoride	0.5	0.38	0.47	0.32	0.23	0.47
SO ₄	38.3	20	24.7	12.9	7.3	34
HCO ₃	167	88.4	112	59.9	16.6	84.1

a Not collected

7.0 INCIDENTAL WATERS

7.1 INCIDENTAL WATERS DEFINITION AND ROUTING MATRIX

An incidental water is defined as precipitation, surface water, groundwater, utility water, process water, or waste water collecting in one or more of several types of containments. These containments can include excavation sites, foundation drains, secondary containment berms, electrical vaults, utility pits and manholes, or other natural or manmade depressions, which must be dewatered.

Water collected in this manner has the potential to become contaminated via contact with the surrounding containment material. Sampling and disposition of incidental waters is conducted per Site Procedure 1-C91-EPR-SW.01, *Control and Disposition of Incidental Waters*. Incidental waters are typically sampled for pH, nitrates, conductivity, and gross alpha and gross beta (when radionuclides are suspected). Additional testing for volatile organic compounds and metals is performed when a specific potential contaminant source is known to exist. Disposition depends on the analytical results. Routing options for incidental waters are outlined in the following table.

Table 7-1. Incidental Waters Routing Matrix

Incidental Water Routing	Routing Criteria	Treatment Processes
Ground/Storm Drain	<ul style="list-style-type: none"> Water meets discharge limits per Incidental Waters procedure 	N/A
Building 995 Waste Water Treatment Plant (WWTP)	<ul style="list-style-type: none"> Water above discharge to ground limits Water meets Internal Waste Streams Program review criteria 	Activated Sludge w/ tertiary clarifiers Dual media filtration UV disinfection
Building 891 Consolidated Water Treatment Facility (CWTF)	<ul style="list-style-type: none"> Water above discharge to ground limits Water not accepted by WWTP Water meets CWTF acceptance criteria and has both radionuclide and organic constituents 	Chemical precipitation Microfiltration UV/ peroxide oxidation Granular activated carbon Ion exchange
Aqueous Waste Treatment System	<ul style="list-style-type: none"> Water above discharge to ground limits Water not accepted by WWTP Water may have radionuclides, organic, RCRA Permitted wastes 	Liquids shipped offsite for treatment by approved vendor

7.2 QUARTERLY INCIDENTAL WATER DISPOSITIONS

Twenty two (22) incidental waters were sampled/dispositioned during the third quarter of FY02. The following table summarizes the location and route of disposal.

Table 7-2. Quarterly Incidental Water Dispositions FY2002 (April, May, and June)

Location/Building	Location Type	Location Description	# of Incidental Waters	Route of Disposal
14	Manhole	Electrical Pit/manhole- W. Central & 1st Ave.	1	To B891
2	Manhole	Manhole # 2, Central Ave., N of B443	1	To B891
207A	Excavation	Excavation near SW corner 207A	1	To B995
231	Secondary Containment	B231, valve vaults	1	To B891
3	Manhole	Manhole # 3, Central Ave., N of T452G	1	To B995
4	Manhole	Manhole # 4, Central Ave., 7th St.	1	To B995
441	Excavation	Excavation S of SW corner of B441	1	To Ground or Storm Drain
5	Manhole	Manhole # 5, Central Ave., N of 865	1	To B995
559	Transformer Berm	East side 559	1	To Ground or Storm Drain
664	Collection Pool	Water collected on tarp	1	To Ground or Storm Drain
664	Drum	Leaking roof B664	1	To Ground or Storm Drain
664	Drum	Leaking roof B664	1	To Ground or Storm Drain
711	Cooling Tower	711 Cooling Tower	1	To B995
711	Cooling Tower	Cooling Tower 711/ 707	1	To AWTS
750pad	Drum	Drum with ice-melt	1	To B995
750PAD	Secondary Containment	For Inter-Modal equip installed 6/3/02	1	To Ground or Storm Drain
750PAD	Secondary Containment	Under air compressor	1	To Ground or Storm Drain
750PAD	Secondary Containment	Around hydraulic units	1	To Ground or Storm Drain
850	Excavation	North of B850 -Fire water line	1	To Ground or Storm Drain
886	Excavation	Excavation W of B886	1	To Ground or Storm Drain
891	Secondary Cont.	Tanks T201-T204	1	To B891

966PAD	Secondary Containment	966 Decon Pad	1	To Ground or Storm Drain
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The 11 incidental waters requiring treatment were routed to the following Site treatment facilities:

- Building 995 – WWTP 6
- Building 891 – CWTF 4
- AWTS 1



