1988 ANNUAL RCRA GROUND-WATER MONITORING REPORT FOR REGULATED UNITS AT ROCKY FLATS PLANT ADDENDUM

EG&G ROCKY FLATS

1 MARCH 1990

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REVIEWED FOR CLASSIFICATION/UCNI
By
Date

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FOR REGULATED UNITS AT ROCKY FLATS PLANT
ADDENDUM

This Addendum to the 1988 Annual RCRA Ground-water Monitoring Report for Regulated Units at the Rocky Flats Plant completes the information required under the Colorado Hazardous Waste Act regulations, 6 CCR 1007-3, Subpart F, 265.94. Data not yet received during preparation of the 1988 report included fourth quarter metals analyzed by atomic adsorption (AA) spectrophotometry (arsenic, cesium, lead, mercury, potassium, selenium, and thallium), and third and fourth quarter radiochemistry (except tritium data which was provided in the 1988 report). These data are provided herein, along with all other 1988 AA metals and radiochemistry data to facilitate comparison (Attachment 1). Attachment 2 presents concentrations of these analytes occurring above background as defined in the 1988 report. In effect, Attachment 2 represents updated tables originally presented in the 1988 report. The following text only describes changes in the interpretation of the nature and extent of contamination pursuant to review of this previously missing data.

In the Solar Evaporation Ponds area, gross alpha is inconsistently present above background and the proposed concentration limit in three wells: 4-60 and 28-86, east and north of the Solar Ponds; and well 17-86, located adjacent to North Walnut Creek (Table 9). In these wells, gross alpha was found above background levels during only one quarter. In well 28-86, gross alpha and beta were notably elevated during the third quarter at 720 and 940 pCi/l, respectively.

With regard to specific radionuclides, plutonium and uranium occurred above background in wells 30-86 and 35-86, respectively, and were previously not detected above background (Table 9). Plutonium was reported at 0.58 $\pm$ 0.29 pCi/l in the third quarter sample collected from well 30-86. Southeast of the Solar Ponds in well 35-86, total uranium was present at 3.93 pCi/l and 4.18 pCi/l in the third and fourth quarter samples, respectively. Further data is required to assess the significance of these findings.

Third and fourth quarter radiochemical data for the West Spray Field show that uranium may be more widespread in the ground water than was indicated by first and second quarter analytical results. Uranium was found above background in samples collected from well 10-81 (fourth quarter); wells 5-82 and 45-86 (third

quarter); and well 47-86 (third and fourth quarter). None of these concentrations were above the proposed concentration limit.

In the Present Landfill area, the upgradient well, 10-86, had a total uranium concentration of 11.6 pCi/l in the first quarter sample, but was below the minimum detectable activity in samples collected during the remaining three quarters. (Table 30). Gross alpha was above background in the third quarter sample collected from 66-87, but was not detected above background during the other three sampling rounds.

A review of the previously unavailable trace metal data indicates that conclusions drawn in the 1988 report are consistent with this new information.

ATTACHMENT 1

1988 RADIOCHEMISTRY AND METALS ANALYZED BY ATOMIC ABSORPTION SPECTROPHOTOMETRY GROUND-WATER DATA

Groundwater Dissolved Metals Results

For Ground-Water Monitoring Wells

Background

Well Number	Date Sampled	Qtr.	Arsenic (As), diss. mg/l	Cesium (Cs), diss. mg/l	Lead (Pb), diss. mg/l	Mercury (Hg), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Thallium (Tl), diss. mg/l
5486	02/08/88	1	0.002 J	0.02 U	0.005 U	0.0002 U	5.2	0.005 U	0.01 U
5486	04/27/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	3.9	0.005 U	0.01 U
5486	07/11/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	4.1	0.005 U	0.010 U
5486	10/14/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	4.5	0.005 U	0.01 U
B405586	02/08/88	1	0.002 J	0.02 U	0.016	0.0002 U	0.8	0.005 U	0.01 U
B405586	04/27/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	0.7	0.005 U	0.01 U
B405586	07/11/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	0.6	0.005 U	0.010 U
B405586	07/11/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	0.7	0.005 U	0.010 U
B405586	10/14/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	0.7	0.005 U	0.01 U

VALUE QUALIFIERS: NR = Analyte not reported U = Analyzed but not detected * = Holding time not met E = Estimated value
J = Present below detection limit B = Present in laboratory blank N = Batch spike not in 80-120% range

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Groundwater Dissolved Metals Results

For Ground-Water Monitoring Wells

Solar Ponds Alluvial

Well Number	Date Sampled	Qtr.	Arsenic (As), diss. mg/l	Cesium (Cs), diss. mg/l	Lead (Pb), diss. mg/l	Mercury (Hg), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Thallium (Tl), diss. mg/l
2486	03/16/88	2	DRY						
2486	05/23/88	2	DRY						
2486	09/08/88	3	DRY						
2486	11/22/88	4	DRY						
5687	03/16/88	1	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
5687	05/23/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
5687	09/14/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
5687	11/28/88	4	DRY						
2286	03/16/88	1	0.005 U	0.02 U	0.001 J	0.0002 U	2.2	0.003 J	0.01 U
2286	05/17/88	2	0.005 U	0.020 U	0.005 U	0.0002 U	6.5	0.005 U	0.010 U
2286	09/09/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	6.7	0.005 U	0.010 U
2286	11/28/88	4	DRY						
2686	03/16/88	1	DRY						
2686	05/17/88	2	DRY						
2686	09/06/88	3	DRY						
2686	11/22/88	4	DRY						

VALUE QUALIFIERS: NR = Analyte not reported U = Analyzed but not detected * = Holding time not met E = Estimated value
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Groundwater Dissolved Metals Results

For Ground-Water Monitoring Wells

Solar Ponds Alluvial

Well Number	Date Sampled	Qtr.	Arsenic (As), diss. mg/l	Cesium (Cs), diss. mg/l	Lead (Pb), diss. mg/l	Mercury (Hg), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Thallium (Tl), diss. mg/l
3887	03/16/88	1	DRY						
3887	05/17/88	2	DRY						
3887	09/06/88	3	DRY						
3887	11/22/88	4	DRY						
3386	03/07/88	1	DRY						
3386	05/02/88	2	DRY						
3386	08/12/88	3	DRY						
3386	11/08/88	4	DRY						
2187	03/07/88	1	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
2187	05/02/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
2187	08/10/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
2187	11/08/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
3586	03/02/88	1	0.004 J	0.020 U	0.005 U	0.0002 U	0.8	0.005 U	0.010 U
3586	05/02/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	0.5	0.005 U	0.01 U

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Groundwater Dissolved Metals Results

For Ground-Water Monitoring Wells

Solar Ponds Alluvial

Well Number	Date Sampled	Qtr.	Arsenic (As), diss. mg/l	Cesium (Cs), diss. mg/l	Lead (Pb), diss. mg/l	Mercury (Hg), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Thallium (Tl), diss. mg/l
3586	08/10/88	3	0.005 U	0.02 U	0.005 U	0.0002 U	0.7	0.005 U	0.01 U
3586	11/04/88	4	0.003 J	0.02 U	0.005 U	0.0002 U	0.5 U	0.005 U	0.01 U
3686	03/07/88	1	DRY						
3686	05/02/88	2	DRY						
3686	08/11/88	3	DRY						
3686	11/08/88	4	DRY						
3787	03/16/88	1	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
3787	05/17/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
3787	09/06/88	3	DRY						
3787	11/22/88	4	DRY						
0460	01/05/88	4	0.007	0.02 U	0.005 U	0.0002 U	21.0	0.012	0.01 U
0460	03/16/88	1	0.002 J	0.02 U	0.005 U	0.0002 U	77	0.005	0.01 U
0460	05/17/88	2	0.005 U	0.020 U	0.005 U	0.0002 U	18.2	0.003 J	0.010 U
0460	09/07/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	25	0.004 J	0.010 U
0460	09/07/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	25	0.004 J	0.010 U
0460	12/02/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	5.3	0.0066	0.01 U

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Groundwater Dissolved Metals Results

For Ground-Water Monitoring Wells

Solar Ponds Alluvial

Well Number	Date Sampled	Qtr.	Arsenic (As), diss. mg/l	Cesium (Cs), diss. mg/l	Lead (Pb), diss. mg/l	Mercury (Hg), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Thallium (Tl), diss. mg/l
2986	03/16/88	2	DRY						
2986	05/23/88	2	DRY						
2986	09/08/88	3	DRY						
2986	11/22/88	4	DRY						
2886	03/16/88	1	0.003 J	0.02 U	0.005 U	0.0002 U	0.5	0.005	0.01 U
2886	05/17/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
2886	09/07/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	435	0.005 U	0.010 U
2886	11/22/88	4	DRY						
3086	01/15/88	4	0.011	0.02 U	0.005 U	0.0002 U	146	0.017	0.01 U
3086	01/16/88	4	NR	NR	NR	NR	NR	NR	NR
3086	03/16/88	1	0.002 J	0.02 U	0.005 U	0.0002 U	146	0.005	0.01 U
3086	05/23/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	159	0.005 U	0.01 U
3086	09/15/88	3	0.005 U	0.020* U	0.005 U	0.0002 U	6.1	0.005 U	0.010 U
3086	12/02/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	42	0.005 U	0.01 U

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Groundwater Dissolved Metals Results

For Ground-Water Monitoring Wells

Solar Ponds Alluvial

Well Number	Date Sampled	Qtr.	Arsenic (As), diss. mg/l	Cesium (Cs), diss. mg/l	Lead (Pb), diss. mg/l	Mercury (Hg), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Thallium (Tl), diss. mg/l
0260	01/05/88	4	0.010	0.02 U	0.002 J	0.0002 U	71.0	0.275	0.01 U
0260	03/16/88	1	0.003 J	0.02 U	0.005 U	0.0002 U	0.5	0.39	0.01 U
0260	05/23/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	64	0.06	0.01 U
0260	09/09/88	3	0.003 J	0.020 U	0.005 U	0.0002 U	75	0.21*	0.010 U
0260	12/02/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	48	0.281	0.01 U
1886	03/14/88	1	DRY						
1886	05/16/88	2	DRY						
1886	08/30/88	3	DRY						
1886	11/22/88	4	DRY						
1786	03/14/88	1	0.003 J	0.02 U	0.005 U	0.0002 U	4.3	0.29	0.01 U
1786	05/16/88	2	0.005 U	0.020 U	0.005 U	0.0002 U	4.2	0.184	0.010 U
1786	08/31/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	5.2	0.32*	0.010 U
1786	11/29/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	3.6	0.179	0.01 U
1586	03/14/88	1	0.005 U	0.02 U	0.005 U	0.0002 U	2.1	0.039	0.01 U
1586	05/16/88	2	0.005 U	0.020 U	0.005 U	0.0002 U	1.6	0.023	0.010 U
1586	09/01/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	2.0	0.027	0.010 U

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Groundwater Dissolved Metals Results

For Ground-Water Monitoring Wells

Solar Ponds Alluvial

Well Number	Date Sampled	Qtr.	Arsenic (As), diss. mg/l	Cesium (Cs), diss. mg/l	Lead (Pb), diss. mg/l	Mercury (Hg), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Thallium (Tl), diss. mg/l
1586	11/29/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	1.4	0.0271	0.01 U
1386	03/14/88	1	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
1386	05/16/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
1386	08/31/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
1386	11/30/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
2086	03/16/88	1	DRY						
2086	05/23/88	2	DRY						
2086	09/06/88	3	DRY						
2086	11/22/88	4	DRY						

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J = Present below detection limit B = Present in laboratory blank N = Batch spike not in 80-120% range

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Groundwater Dissolved Metals Results

For Ground-Water Monitoring Wells

Solar Ponds Bedrock

Well Number	Date Sampled	Qtr.	Arsenic (As), diss. mg/l	Cesium (Cs), diss. mg/l	Lead (Pb), diss. mg/l	Mercury (Hg), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Thallium (Tl), diss. mg/l
2386	01/15/88	4	0.005	0.02 U	0.003 J	0.0002 U	14.0	0.007	0.01 U
2386	03/21/88	1	0.005 U	0.02 U	0.005 U	0.0002 U	11	0.005 U	0.01 U
2386	05/23/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	13.2	0.005 U	0.01 U
2386	09/08/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
2386	11/30/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
2586	01/15/88	4	0.021	0.02 U	0.005 U	0.0002 U	15.3	0.005 U	0.01 U
2586	01/15/88	4	0.019	0.02 U	0.005 U	0.0002 U	15.5	0.002 J	0.01 U
2586	03/21/88	1	0.005 U	0.02 U	0.005 U	0.0002 U	15	0.005 U	0.01 U
2586	05/18/88	2	0.005 U	0.020 U	0.005 U	0.0002 U	12.4	0.003 J	0.010 U
2586	09/13/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	15	0.005 U	0.010 U
2586	09/13/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	15	0.005 U	0.010 U
2586	12/06/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	9.9	0.005 U	0.01 U
3486	03/02/88	1	0.004 J	0.020 U	0.005 U	0.0002 U	3.1	0.005 U	0.010 U
3486	05/02/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	8.9	0.005 U	0.01 U
3486	08/10/88	3	0.005 U	0.02 U	0.005 U	0.0002 U	8.7	0.005 U	0.01 U
3486	11/04/88	4	NR	0.02 U	0.005 U	0.0002 U	7.5	NR	0.01 U

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Groundwater Dissolved Metals Results

For Ground-Water Monitoring Wells

Solar Ponds Bedrock

Well Number	Date Sampled	Qtr.	Arsenic (As), diss. mg/l	Cesium (Cs), diss. mg/l	Lead (Pb), diss. mg/l	Mercury (Hg), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Thallium (Tl), diss. mg/l
2786	03/21/88	1	0.005 U	0.02 U	0.005 U	0.0002 U	1.0	0.005 U	0.01 U
2786	05/18/88	2	0.005 U	0.020 U	0.005 U	0.0002 U	4.7	0.005 U	0.010 U
2786	09/13/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	6.1	0.005 U	0.010 U
2786	12/06/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	3.6	0.005 U	0.01 U
3086	01/15/88	4	0.011	0.02 U	0.005 U	0.0002 U	146	0.017	0.01 U
3086	01/16/88	4	NR	NR	NR	NR	NR	NR	NR
3086	03/16/88	1	0.002 J	0.02 U	0.005 U	0.0002 U	146	0.005	0.01 U
3086	05/23/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	159	0.005 U	0.01 U
3086	09/15/88	3	0.005 U	0.020* U	0.005 U	0.0002 U	6.1	0.005 U	0.010 U
3086	12/02/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	42	0.005 U	0.01 U
3186	03/16/88	2	DRY						
3186	05/18/88	2	DRY						
3186	09/13/88	3	DRY						
3186	11/22/88	4	DRY						

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Groundwater Dissolved Metals Results

For Ground-Water Monitoring Wells

Solar Ponds Bedrock

Well Number	Date Sampled	Qtr.	Arsenic (As), diss. mg/l	Cesium (Cs), diss. mg/l	Lead (Pb), diss. mg/l	Mercury (Hg), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Thallium (Tl), diss. mg/l
3286	03/21/88	1	0.005 U	0.02 U	0.005 U	0.0002 U	5.4	0.005 U	0.01 U
3286	05/18/88	2	0.005 U	0.020 U	0.005 U	0.0002 U	5.7	0.005 U	0.010 U
3286	09/13/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	5.6	0.005 U	0.010 U
3286	12/02/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	3.0	0.005 U	0.01 U
1686	03/14/88	1	0.002 J	0.02 U	0.005 U	0.0002 U	9.9	0.003 J	0.01 U
1686	05/16/88	2	0.005 U	0.020 U	0.005 U	0.0002 U	6.9	0.003 J	0.010 U
1686	08/31/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	7.5	0.005 U	0.010 U
1686	08/31/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	7.5	0.005 U	0.010 U
1686	11/29/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	5.4	0.005 U	0.01 U
1486	03/14/88	1	0.005 U	0.02 U	0.005 U	0.0002 U	5.3	0.005 U	0.01 U
1486	05/16/88	2	0.005 U	0.020 U	0.005 U	0.0002 U	6.4	0.004 J	0.010 U
1486	08/31/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	6.8	0.005 U	0.010 U
1486	11/29/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	5.4	0.005 U	0.01 U
1486	11/29/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	5.6	0.005 U	0.01 U

VALUE QUALIFIERS: NR = Analyte not reported U = Analyzed but not detected * = Holding time not met E = Estimated value
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Groundwater Dissolved Metals Results

For Ground-Water Monitoring Wells

W.Spray Field Alluvial

Well Number	Date Sampled	Qtr.	Arsenic (As), diss. mg/l	Cesium (Cs), diss. mg/l	Lead (Pb), diss. mg/l	Mercury (Hg), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Thallium (Tl), diss. mg/l
1081	01/12/88	4	0.005	0.02 U	0.006	0.0002	0.5	0.004 J	0.01 U
1081	02/04/88	1	0.005 U	0.02 U	0.005 U	0.0002 U	0.5	0.005 U	0.01 U
1081	04/07/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	0.5 U	0.005 U	0.01 U
1081	07/07/88	3	0.005 U	0.020 U	0.005 U	0.0002* U	0.5 U	0.005 U	0.010 U
1081	10/12/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	0.5 U	0.005 U	0.01 U
1081	10/12/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	0.5 U	0.005 U	0.01 U
0782	02/04/88	1	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
0782	04/07/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
0782	07/07/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
0782	10/11/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
5186	02/08/88	1	0.005 U	0.02 U	0.005 U	0.0002 U	0.8	0.005 U	0.01 U
5186	04/25/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	0.6	0.005 U	0.01 U
5186	04/26/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	0.7	0.005 U	0.01 U
5186	07/07/88	3	0.005 U	0.020 U	0.005 U	0.0002* U	0.5	0.005 U	0.010 U
5186	10/14/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	0.6	0.005 U	0.01 U
5086	03/25/88	1	0.005 U	0.020 U	0.005 U	0.0002 U	0.3 J	0.005 U	0.010 U

VALUE QUALIFIERS: NR = Analyte not reported U = Analyzed but not detected * = Holding time not met E = Estimated value
J = Present below detection limit B = Present in laboratory blank N = Batch spike not in 80-120% range

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Groundwater Dissolved Metals Results

For Ground-Water Monitoring Wells

W.Spray Field Alluvial

Well Number	Date Sampled	Qtr.	Arsenic (As), diss. mg/l	Cesium (Cs), diss. mg/l	Lead (Pb), diss. mg/l	Mercury (Hg), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Thallium (Tl), diss. mg/l
5086	05/31/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	0.8	0.005 U	0.01 U
5086	10/04/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	0.7	0.005 U	0.010 U
5086	12/20/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	1.0 U	0.005 U	0.01 U
4986	03/29/88	1	0.005 U	0.020 U	0.005 U	0.0002 U	0.5 U	0.005 U	0.010 U
4986	05/31/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	0.6	0.005 U	0.01 U
4986	09/30/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	0.7	0.005 U	0.010 U
4986	12/20/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	1.0 U	0.005 U	0.01 U
0582	01/07/88	4	0.005	0.02 U	0.005 U	0.0002 U	0.8	0.003 J	0.01 U
0582	03/24/88	1	0.005 U	0.020 U	0.005 U	0.0002 U	0.5	0.005 U	0.010 U
0582	05/25/88	2	0.005 U	0.02 U	0.004 J	0.0002 U	1.3	0.005 U	0.01 U
0582	09/27/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	0.6	0.005 U	0.010 U
0582	12/20/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	1.0 U	0.005 U	0.01 U
0682	01/07/88	4	0.006	0.02 U	0.003 J	0.0002 U	1.3	0.004 J	0.01 U
0682	03/24/88	1	0.005 U	0.020 U	0.005 U	0.0002 U	0.6	0.005 U	0.010 U
0682	05/25/88	2	0.005 U	0.02 U	0.002 U	0.0002 U	1.1	0.005 U	0.01 U
0682	09/27/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	0.8	0.005 U	0.010 U

VALUE QUALIFIERS: NR = Analyte not reported U = Analyzed but not detected * = Holding time not met E = Estimated value
J = Present below detection limit B = Present in laboratory blank N = Batch spike not in 80-120% range

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Groundwater Dissolved Metals Results

For Ground-Water Monitoring Wells

W.Spray Field Alluvial

Well Number	Date Sampled	Qtr.	Arsenic (As), diss. mg/l	Cesium (Cs), diss. mg/l	Lead (Pb), diss. mg/l	Mercury (Hg), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Thallium (Tl), diss. mg/l
0682	12/19/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
4786	02/08/88	1	0.005 U	0.02 U	0.005 U	0.0002 U	0.6	0.005 U	0.01 U
4786	04/25/88	2	0.005 U	0.02 U	0.013	0.0002 U	0.6	0.005 U	0.01 U
4786	07/11/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	0.6	0.005 U	0.010 U
4786	10/14/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	0.6	0.005 U	0.01 U
4586	03/25/88	1	0.005 U	0.020 U	0.005 U	0.0002 U	0.5 U	0.005 U	0.010 U
4586	05/26/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	0.5	0.005 U	0.01 U
4586	09/29/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	1.1	0.005 U	0.010 U
4586	12/16/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	1.0 U	0.005 U	0.01 U
0881	01/14/88	4	0.006	0.02 U	0.005 U	0.0002 U	2.3	0.004 J	0.01 U
0881	03/24/88	1	0.005 U	0.020 U	0.003 J	0.0002 U	1.6	0.005 U	0.010 U
0881	05/25/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	1.7	0.005 U	0.01 U
0881	10/04/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	1.9	0.005 U	0.010 U
0881	10/04/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	1.9	0.005 U	0.010 U
0881	12/22/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	1.6	0.005 U	0.01 U

VALUE QUALIFIERS: NR = Analyte not reported U = Analyzed but not detected * = Holding time not met E = Estimated value
J = Present below detection limit B = Present in laboratory blank N = Batch spike not in 80-120% range

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Groundwater Dissolved Metals Results

For Ground-Water Monitoring Wells

W.Spray Field Alluvial

Well Number	Date Sampled	Qtr.	Arsenic (As), diss. mg/l	Cesium (Cs), diss. mg/l	Lead (Pb), diss. mg/l	Mercury (Hg), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Thallium (Tl), diss. mg/l
0981	01/13/88	4	0.006	0.02 U	0.002 J	0.0002 U	1.4	0.004 J	0.01 U
0981	03/24/88	1	0.003 J	0.020 U	0.005 U	0.0002 U	1.5	0.005 U	0.010 U
0981	03/24/88	1	0.003 J	0.020 U	0.005 U	0.0002 U	1.5	0.005 U	0.010 U
0981	05/25/88	2	0.006	0.02 U	0.005 U	0.0002 U	1.8	0.005 U	0.01 U
0981	05/26/88	2	0.006	0.02 U	0.005 U	0.0002 U	1.7	0.005 U	0.01 U
0981	09/27/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	1.5	0.005 U	0.010 U
0981	09/27/88	3	0.004* J	0.020 U	0.005 U	0.0002 U	1.5	0.005 U	0.010 U
0981	12/22/88	4	0.0143	1.0 U	0.005 U	0.0002 U	1.8	0.005 U	0.01 U
0382	03/29/88	1	0.005 U	0.020 U	0.005 U	0.0002 U	0.9	0.005 U	0.010 U
0382	05/25/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	2.5	0.005 U	0.01 U
0382	09/28/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	1.5	0.005 U	0.010 U
0382	12/19/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
5686	02/15/88	1	0.005 U	0.02 U	0.005 U	0.0002 U	1.7	0.005 U	0.01 U
5686	04/07/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	1.0	0.005 U	0.01 U
5686	07/13/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	1.7	0.005 U	0.010 U
5686	10/20/88	4	0.005 U	0.02 U	0.005 U	0.0002 U	1.9	0.005 U	0.01 U
5686	10/20/88	4	0.005 U	0.02 U	0.005 U	0.0002 U	1.8	0.005 U	0.01 U

VALUE QUALIFIERS: NR = Analyte not reported U = Analyzed but not detected * = Holding time not met E = Estimated value
J = Present below detection limit B = Present in laboratory blank N = Batch spike not in 80-120% range

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Groundwater Dissolved Metals Results

For Ground-Water Monitoring Wells

Landfill Alluvial

Well Number	Date Sampled	Qtr.	Arsenic (As), diss. mg/l	Cesium (Cs), diss. mg/l	Lead (Pb), diss. mg/l	Mercury (Hg), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Thallium (Tl), diss. mg/l
1086	02/02/88	1	0.005 U	0.02 U	0.005 U	0.0002 U	0.6	0.005 U	0.01 U
1086	06/06/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	0.5 U	0.005 U	0.01 U
1086	09/20/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	0.6	0.005 U	0.010 U
1086	09/20/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	0.6	0.005 U	0.010 U
1086	12/07/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	1.0 U	0.005 U	0.01 U
5887	01/22/88	1	0.005 U	0.02 U	0.005 U	0.0002	5.2	0.005 U	0.01 U
5887	06/06/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	3.6	0.005 U	0.01 U
5887	09/16/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	4.0	0.005 U	0.010 U
5887	12/14/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	2.5	0.005 U	0.01 U
5987	01/22/88	1	0.005 U	0.02 U	0.010	0.0002 U	11	0.002 J	0.01 U
5987	06/06/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	7.0	0.005 U	0.01 U
5987	09/16/88	3	0.003 J	0.020 U	0.005 U	0.001	7.3	0.005 U	0.010 U
5987	12/06/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
6087	01/22/88	1	0.005 U	0.02 U	0.005 U	0.0002 U	1.0	0.005 U	0.01 U
6087	06/06/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	0.6	0.005 U	0.01 U
6087	09/22/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	0.6	0.005 U	0.010 U

VALUE QUALIFIERS: NR = Analyte not reported U = Analyzed but not detected * = Holding time not met E = Estimated value
J = Present below detection limit B = Present in laboratory blank N = Batch spike not in 80-120% range

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Groundwater Dissolved Metals Results

For Ground-Water Monitoring Wells

Landfill Alluvial

Well Number	Date Sampled	Qtr.	Arsenic (As), diss. mg/l	Cesium (Cs), diss. mg/l	Lead (Pb), diss. mg/l	Mercury (Hg), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Thallium (Tl), diss. mg/l
6087	12/06/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	1.0 U	0.005 U	0.01 U
6187	01/26/88	1	0.005 U	0.02 U	0.005 U	0.0002 U	2.1	0.005 U	0.01 U
6187	06/08/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	0.8	0.005 U	0.01 U
6187	09/23/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	0.8	0.005 U	0.010 U
6187	12/09/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	1.0 U	0.005 U	0.01 U
6287	01/25/88	1	0.005 U	0.02 U	0.005 U	0.0002 U	3.0	0.005 U	0.01 U
6287	06/08/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	0.9	0.005 U	0.01 U
6287	09/23/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	0.7	0.005 U	0.010 U
6287	12/09/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	1.0 U	0.005 U	0.01 U
6387	01/26/88	1	0.005 U	0.02 U	0.005 U	0.0002 U	3.8	0.005 U	0.01 U
6387	06/08/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	1.7	0.005 U	0.01 U
6387	09/23/88	3	0.005 U	0.020 U	0.005 U	0.0004	1.6	0.005 U	0.010 U
6387	12/09/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	1.2	0.005 U	0.01 U
6787	01/28/88	1	0.005 U	0.02 U	0.005 U	0.0002 U	4.9	0.005 U	0.01 U

VALUE QUALIFIERS: NR = Analyte not reported U = Analyzed but not detected * = Holding time not met E = Estimated value
J = Present below detection limit B = Present in laboratory blank N = Batch spike not in 80-120% range

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Groundwater Dissolved Metals Results

For Ground-Water Monitoring Wells

Landfill Alluvial

Well Number	Date Sampled	Qtr.	Arsenic (As), diss. mg/l	Cesium (Cs), diss. mg/l	Lead (Pb), diss. mg/l	Mercury (Hg), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Thallium (Tl), diss. mg/l
6787	06/16/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	1.8	0.005 U	0.01 U
6787	08/18/88	3	DRY						
6787	09/22/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	1.8	0.005 U	0.010 U
6787	12/14/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	1.1	0.005 U	0.01 U
6887	01/28/88	1	0.005 U	0.02 U	0.005 U	0.0002 U	3.0	0.005 U	0.01 U
6887	06/16/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	0.8	0.005 U	0.01 U
6887	06/17/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	0.8	0.005 U	0.01 U
6887	09/22/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	0.7	0.005 U	0.010 U
6887	12/14/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	1.0 U	0.005 U	0.01 U
7187	01/29/88	1	0.005 U	0.02 U	0.005 U	0.0002	1.7	0.005 U	0.01 U
7187	06/08/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	1.1	0.005 U	0.01 U
7187	09/20/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	0.8	0.005 U	0.010 U
7187	12/06/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	1.0 U	0.005 U	0.01 U
7187	12/06/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	1.0 U	0.005 U	0.01 U
6687	01/29/88	1	0.005 U	0.02 U	0.005 U	0.0002	6.1	0.005 U	0.01 U
6687	06/14/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	5.4	0.005 U	0.01 U

VALUE QUALIFIERS: NR = Analyte not reported U = Analyzed but not detected * = Holding time not met E = Estimated value
J = Present below detection limit B = Present in laboratory blank N = Batch spike not in 80-120% range

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Groundwater Dissolved Metals Results

For Ground-Water Monitoring Wells

Landfill Alluvial

Well Number	Date Sampled	Qtr.	Arsenic (As), diss. mg/l	Cesium (Cs), diss. mg/l	Lead (Pb), diss. mg/l	Mercury (Hg), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Thallium (Tl), diss. mg/l
6687	09/16/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	3.7	0.005 U	0.010 U
6687	12/07/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	1.7	0.005 U	0.01 U
6587	01/27/88	1	0.005 U	0.02 U	0.005 U	0.0002 U	6.2	0.005 U	0.01 U
6587	06/14/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	3.3	0.005 U	0.01 U
6587	09/23/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	2.3	0.005 U	0.010 U
6587	12/09/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	1.8	0.005 U	0.01 U
6487	01/29/88	1	0.005 U	0.02 U	0.005 U	0.0002 U	4.2	0.005 U	0.01 U
6487	06/14/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	1.6	0.005 U	0.01 U
6487	09/23/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	1.9	0.005 U	0.010 U
6487	12/08/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
7287	01/28/88	1	0.005 U	0.02 U	0.005 U	0.0002 U	3.1	0.005 U	0.01 U
7287	06/16/88	2	DRY						
7287	09/21/88	3	DRY						
7287	12/15/88	4	DRY						

VALUE QUALIFIERS: NR = Analyte not reported U = Analyzed but not detected * = Holding time not met E = Estimated value
J = Present below detection limit B = Present in laboratory blank N = Batch spike not in 80-120% range
DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Groundwater Dissolved Metals Results

For Ground-Water Monitoring Wells

Landfill Alluvial

Well Number	Date Sampled	Qtr.	Arsenic (As), diss. mg/l	Cesium (Cs), diss. mg/l	Lead (Pb), diss. mg/l	Mercury (Hg), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Thallium (Tl), diss. mg/l
7087	02/03/88	1	DRY						
7087	06/16/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	5.3	0.005 U	0.01 U
7087	09/22/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	3.8	0.005 U	0.010 U
7087	12/14/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	2.4	0.005 U	0.01 U
0786	02/01/88	1	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
0786	06/16/88	2	DRY						
0786	09/14/88	3	DRY						
0786	12/15/88	4	DRY						
4087	02/01/88	1	DRY						
4087	06/14/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
4087	09/14/88	3	DRY						
4087	12/13/88	4	DRY						
4287	02/04/88	1	0.005 U	0.02 U	0.005 U	0.0002 U	9.4	0.005 U	0.01 U
4287	06/16/88	2	DRY						
4287	09/21/88	3	DRY						
4287	12/12/88	4	DRY						

VALUE QUALIFIERS: NR = Analyte not reported U = Analyzed but not detected * = Holding time not met E = Estimated value
J = Present below detection limit B = Present in laboratory blank N = Batch spike not in 80-120% range

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Groundwater Dissolved Metals Results

For Ground-Water Monitoring Wells

Landfill Alluvial

Well Number	Date Sampled	Qtr.	Arsenic (As), diss. mg/l	Cesium (Cs), diss. mg/l	Lead (Pb), diss. mg/l	Mercury (Hg), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Thallium (Tl), diss. mg/l
0686	02/01/88	1	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
0686	06/14/88	2	DRY						
0686	09/21/88	3	DRY						
0686	12/15/88	4	DRY						
0586	03/29/88	1	0.005 U	0.020 U	0.005 U	0.0002 U	5.0	0.008	0.010 U
0586	06/01/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
0586	10/04/88	4	DRY						
0586	12/23/88	4	DRY						

VALUE QUALIFIERS: NR = Analyte not reported U = Analyzed but not detected * = Holding time not met E = Estimated value
J = Present below detection limit B = Present in laboratory blank N = Batch spike not in 80-120% range

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Groundwater Dissolved Metals Results

For Ground-Water Monitoring Wells

Landfill Bedrock

Well Number	Date Sampled	Qtr.	Arsenic (As), diss. mg/l	Cesium (Cs), diss. mg/l	Lead (Pb), diss. mg/l	Mercury (Hg), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Thallium (Tl), diss. mg/l
0986	01/18/88	4	0.015	0.02 U	0.002 J	0.0002 U	3.6	0.002 J	0.01 U
0986	02/04/88	1	0.005 U	0.02 U	0.005 U	0.0002	3.5	0.005 U	0.01 U
0986	06/06/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	2.8	0.005 U	0.01 U
0986	06/07/88	2	0.005 U	0.02 U	0.005 U	0.0002 U	3.1	0.005 U	0.01 U
0986	09/20/88	3	0.005 U	0.020 U	0.005 U	0.0002 U	2.9	0.005 U	0.010 U
0986	12/16/88	4	0.01 U	1.0 U	0.005 U	0.0002 U	2.0	0.005 U	0.01 U
0886	02/04/88	1	0.005 U	0.02 U	0.005 U	0.0002 U	4.9	0.005 U	0.01 U
0886	06/14/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
0886	09/14/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
0886	12/15/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

VALUE QUALIFIERS: NR = Analyte not reported U = Analyzed but not detected * = Holding time not met E = Estimated value
J = Present below detection limit B = Present in laboratory blank N = Batch spike not in 80-120% range

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Dissolved Radiochemistry Results
for Ground-Water Monitoring Wells
Background

Well Number	Date Sampled	Qtr.	Gross Alpha pCi/l		Gross Beta pCi/l		Uranium 233, 234 pCi/l		Uranium 235 pCi/l	
5486	02/08/88	1	6 ± 6		-5 ± 13		0.04 ± .11		0.00 ± 0.06	
5486	04/27/88	2	4 ± 4	8	1 ± 10	24	0.97 ± 0.27	1.3	0.01 ± 0.03	0.14
5486	07/11/88	3	4 ± 1		6 ± 2		0.95 ± 0.25		0.02 ± 0.03	0.10
5486	10/14/88	4	3 ± 1		5 ± 2		1.0 ± 0.2		0.02 ± 0.03	0.05
B405586	02/08/88	1	5 ± 4		14 ± 12		0.00 ± 0.48		0.05 ± 0.28	
B405586	04/27/88	2	1 ± 5	12	6 ± 10	22	0.00 ± 0.24	1.3	0.00 ± 0.03	0.14
B405586	07/11/88	3	1 ± 1	2	2 ± 1	4	0.23 ± 0.21	0.84	0.00 ± 0.03	0.11
B405586	07/11/88	3	0 ± 1	2	0 ± 2	4	0.00 ± 0.21	0.64	0.00 ± 0.03	0.09
B405586	10/14/88	4	1 ± 1	2	1 ± 1	3	0.03 ± 0.06	0.14	0.00 ± 0.02	0.04

VALUE QUALIFIERS: NR = Analyte not reported *** = Insufficient Sample for Radiochemistry Analyses
DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Dissolved Radiochemistry Results
for Ground-Water Monitoring Wells
Background

Well Number	Date Sampled	Qtr.	Uranium 238 pCi/l		Strontium 89, 90 pCi/l	Plutonium 239, 240 pCi/l		Americium 241 pCi/l	
5486	02/08/88	1	0.04 ± 0.09		NR	0.00 ± .16		NR	
5486	04/27/88	2	0.35 ± 0.24	1.2	NR	0.00 ± 0.04	0.13	0.00 ± 0.07	0.64
5486	07/11/88	3	0.28 ± 0.22	0.80	NR	0.00 ± 0.04	0.11	0.00 ± 0.08	0.49
5486	10/14/88	4	0.45 ± 0.11		NR	0.01 ± 0.03	0.06	-0.01 ± 0.08	0.30
B405586	02/08/88	1	0.13 ± 0.51		NR	0.00 ± 0.21		NR	
B405586	04/27/88	2	0.00 ± 0.23	1.2	NR	0.00 ± 0.05	0.11	0.02 ± 0.10	1.1
B405586	07/11/88	3	0.11 ± 0.16	0.62	NR	0.00 ± 0.04	0.09	0.02 ± 0.18	0.61
B405586	07/11/88	3	0.00 ± 0.16	0.47	NR	0.00 ± 0.04	0.10	0.00 ± 0.17	0.61
B405586	10/14/88	4	0.03 ± 0.07	0.16	NR	0.01 ± 0.03	0.06	-0.07 ± 0.08	0.22

VALUE QUALIFIERS: NR = Analyte not reported *** = Insufficient Sample for Radiochemistry Analyses
DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Dissolved Radiochemistry Results
for Ground-Water Monitoring Wells
Background

Well Number	Date Sampled	Qtr.	Tritium pCi/l	Radium 226 pCi/l	Radium 228 pCi/l
5486	02/08/88	1	<210	NR	NR
5486	04/27/88	2	<220	NR	NR
5486	07/11/88	3	<200	NR	NR
5486	10/14/88	4	<200	NR	NR
B405586	02/08/88	1	<210	NR	NR
B405586	04/27/88	2	<220	NR	NR
B405586	07/11/88	3	<210	NR	NR
B405586	07/11/88	3	220 ± 90	NR	NR
B405586	10/14/88	4	310 ± 90	NR	NR

VALUE QUALIFIERS: NR = Analyte not reported *** = Insufficient Sample for Radiochemistry Analyses
DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Alluvial

Well Number	Date Sampled	Qtr.	Gross Alpha pCi/l	Gross Beta pCi/l		Uranium 233, 234 pCi/l	Uranium 235 pCi/l
2486	03/16/88	2	DRY				
2486	05/23/88	2	DRY				
2486	09/08/88	3	DRY				
2486	11/22/88	4	DRY				
5687	03/16/88	1	***				
5687	05/23/88	2	***				
5687	09/14/88	3	***				
5687	11/28/88	4	DRY				
2286	03/16/88	1	8 ± 6	8 ± 11		6.3 ± 0.6	0.21 ± .010
2286	05/17/88	2	11 ± 6	11 ± 11	24	5.4 ± 0.5	0.17 ± 0.03
2286	09/09/88	3	9 ± 10	11 ± 4		9.9 ± 1.2	0.3 ± 0.2
2286	11/28/88	4	DRY				
2686	03/16/88	1	DRY				
2686	05/17/88	2	DRY				
2686	09/06/88	3	DRY				
2686	11/22/88	4	DRY				
3887	03/16/88	1	DRY				
3887	05/17/88	2	DRY				
3887	09/06/88	3	DRY				
3887	11/22/88	4	DRY				

VALUE QUALIFIERS: NR = Analyte not reported *** = Insufficient Sample for Radiochemistry Analyses

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Alluvial

Well Number	Date Sampled	Qtr.	Uranium 238 pCi/l	Strontium 89, 90 pCi/l	Plutonium 239, 240 pCi/l		Americium 241 pCi/l	
2486	03/16/88	2	DRY					
2486	05/23/88	2	DRY					
2486	09/08/88	3	DRY					
2486	11/22/88	4	DRY					
5687	03/16/88	1	***					
5687	05/23/88	2	***					
5687	09/14/88	3	***					
5687	11/28/88	4	DRY					
2286	03/16/88	1	3.0 ± 0.4	NR	0.00 ± 0.24		0.00 ± 0.11	
2286	05/17/88	2	2.4 ± 0.3	NR	0.00 ± 0.04	0.15	0.03 ± 0.11	0.42
2286	09/09/88	3	4.6 ± 0.8	NR	0.01 ± 0.01		0.05 ± 0.02	
2286	11/28/88	4	DRY					
2686	03/16/88	1	DRY					
2686	05/17/88	2	DRY					
2686	09/06/88	3	DRY					
2686	11/22/88	4	DRY					
3887	03/16/88	1	DRY					
3887	05/17/88	2	DRY					
3887	09/06/88	3	DRY					
3887	11/22/88	4	DRY					

VALUE QUALIFIERS: NR = Analyte not reported *** = Insufficient Sample for Radiochemistry Analyses

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Alluvial

Well Number	Date Sampled	Qtr.	Tritium pCi/l	Radium 226 pCi/l	Radium 228 pCi/l
2486	03/16/88	2	DRY		
2486	05/23/88	2	DRY		
2486	09/08/88	3	DRY		
2486	11/22/88	4	DRY		
5687	03/16/88	1	***		
5687	05/23/88	2	***		
5687	09/14/88	3	***		
5687	11/28/88	4	DRY		
2286	03/16/88	1	340 ± 100	NR	NR
2286	05/17/88	2	390 ± 100	NR	NR
2286	09/09/88	3	360 ± 100	NR	NR
2286	11/28/88	4	DRY		
2686	03/16/88	1	DRY		
2686	05/17/88	2	DRY		
2686	09/06/88	3	DRY		
2686	11/22/88	4	DRY		
3887	03/16/88	1	DRY		
3887	05/17/88	2	DRY		
3887	09/06/88	3	DRY		
3887	11/22/88	4	DRY		

VALUE QUALIFIERS: NR = Analyte not reported *** = Insufficient Sample for Radiochemistry Analyses

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Alluvial

Well Number	Date Sampled	Qtr.	Gross Alpha pCi/l		Gross Beta pCi/l		Uranium 233, 234 pCi/l		Uranium 235 pCi/l	
3386	03/07/88	1	DRY							
3386	05/02/88	2	DRY							
3386	08/12/88	3	DRY							
3386	11/08/88	4	DRY							
2187	03/07/88	1	***							
2187	05/02/88	2	***							
2187	08/10/88	3	***							
2187	11/08/88	4	***							
3586	03/02/88	1	16 ± 21	44	27 ± 41	94	2.3 ± 0.4		0.06 ± 0.08	0.38
3586	05/02/88	2	6 ± 7	13	-3 ± 16	37	1.9 ± 0.3	2.0	0.06 ± 0.03	0.22
3586	08/10/88	3	5 ± 3		2 ± 4		2.3 ± 0.4		0.03 ± 0.04	
3586	11/04/88	4	NR		NR		2.4 ± 0.3		<.08 ± .03	
3686	03/07/88	1	DRY							
3686	05/02/88	2	DRY							
3686	08/11/88	3	DRY							
3686	11/08/88	4	DRY							
3787	03/16/88	1	***							
3787	05/17/88	2	***							
3787	09/06/88	3	DRY							

VALUE QUALIFIERS: NR = Analyte not reported *** = Insufficient Sample for Radiochemistry Analyses

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Alluvial

Well Number	Date Sampled	Qtr.	Uranium 238 pCi/l		Strontium 89, 90 pCi/l	Plutonium 239, 240 pCi/l		Americium 241 pCi/l	
3386	03/07/88	1	DRY						
3386	05/02/88	2	DRY						
3386	08/12/88	3	DRY						
3386	11/08/88	4	DRY						
2187	03/07/88	1	***						
2187	05/02/88	2	***						
2187	08/10/88	3	***						
2187	11/08/88	4	***						
3586	03/02/88	1	2.3 ± 0.4		NR	0.00 ± 0.50	4.7	0.00 ± 0.18	0.63
3586	05/02/88	2	1.1 ± 0.3	1.9	NR	0.02 ± 0.04	0.22	0.00 ± 0.10	0.45
3586	08/10/88	3	1.6 ± 0.3		NR	0.01 ± 0.04		0.11 ± 0.08	
3586	11/04/88	4	1.7 ± 0.2		NR	<0.0 ± .03		<0.0 ± .08	
3686	03/07/88	1	DRY						
3686	05/02/88	2	DRY						
3686	08/11/88	3	DRY						
3686	11/08/88	4	DRY						
3787	03/16/88	1	***						
3787	05/17/88	2	***						
3787	09/06/88	3	DRY						

VALUE QUALIFIERS: NR = Analyte not reported *** = Insufficient Sample for Radiochemistry Analyses

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Alluvial

Well Number	Date Sampled	Qtr.	Tritium pCi/l	Radium 226 pCi/l	Radium 228 pCi/l
3386	03/07/88	1	DRY		
3386	05/02/88	2	DRY		
3386	08/12/88	3	DRY		
3386	11/08/88	4	DRY		
2187	03/07/88	1	***		
2187	05/02/88	2	***		
2187	08/10/88	3	***		
2187	11/08/88	4	***		
3586	03/02/88	1	<210	NR	NR
3586	05/02/88	2	<210	NR	NR
3586	08/10/88	3	260 ± 90	NR	NR
3586	11/04/88	4	<220	NR	NR
3686	03/07/88	1	DRY		
3686	05/02/88	2	DRY		
3686	08/11/88	3	DRY		
3686	11/08/88	4	DRY		
3787	03/16/88	1	***		
3787	05/17/88	2	***		
3787	09/06/88	3	DRY		

VALUE QUALIFIERS: NR = Analyte not reported *** = Insufficient Sample for Radiochemistry Analyses

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Alluvial

Well Number	Date Sampled	Qtr.	Gross Alpha pCi/l	Gross Beta pCi/l	Uranium 233, 234 pCi/l	Uranium 235 pCi/l
3787	11/22/88	4	DRY			
0460	01/05/88	4	39 ± 10	48 ± 12	24 ± 2	1.3 ± 0.2
0460	03/16/88	1	24 ± 7	29 ± 12	20 ± 2	0.85 ± 0.19
0460	05/17/88	2	26 ± 11	15 ± 10 23	20 ± 2	0.64 ± 0.08
0460	09/07/88	3	25 ± 16	36 ± 7	16 ± 1	0.5 ± 0.2
0460	09/07/88	3	39 ± 17	32 ± 7	17 ± 1	0.7 ± 0.2
0460	12/02/88	4	33 ± 17	30 ± 7	19 ± 1	0.7 ± 0.3
2986	03/16/88	2	DRY			
2986	05/23/88	2	DRY			
2986	09/08/88	3	DRY			
2986	11/22/88	4	DRY			
2886	03/16/88	1	8.6 ± 1.5	8.9 ± 0.6	3.2 ± 0.2	12 ± 1
2886	05/17/88	2	***			
2886	09/07/88	3	720 ± 170	940 ± 80	250 ± 10	8.3 ± 0.9
2886	11/22/88	4	DRY			
3086	01/15/88	4	304 ± 69	215 ± 20	160 ± 34	5.2 ± 1.4
3086	01/16/88	4	***			
3086	03/16/88	1	320 ± 60	250 ± 40	NR	NR
3086	05/23/88	2	390 ± 60	290 ± 40	210 ± 20	7.8 ± 1.1
3086	09/15/88	3	220 ± 170	130 ± 60	99 ± 2	3.0 ± 0.4

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Alluvial

Well Number	Date Sampled	Qtr.	Uranium 238 pCi/l	Strontium 89, 90 pCi/l	Plutonium 239, 240 pCi/l		Americium 241 pCi/l	
3787	11/22/88	4	DRY					
0460	01/05/88	4	8.4 ± 0.8	2.2	0.00 ± .15	.69	0.00 ± .22	1.2
0460	03/16/88	1	7.6 ± 0.8	NR	0.00 ± 0.44		NR	
0460	05/17/88	2	6.5 ± 0.6	NR	0.00 ± 0.09	0.25	0.00 ± 0.09	0.37
0460	09/07/88	3	5.7 ± 0.6	NR	0.01 ± 0.01		0.01 ± 0.01	
0460	09/07/88	3	6.1 ± 0.6	NR	0.06 ± 0.10		0.02 ± 0.07	
0460	12/02/88	4	7.8 ± 0.9	NR	-0.01 ± 0.08		0.08 ± 0.09	
2986	03/16/88	2	DRY					
2986	05/23/88	2	DRY					
2986	09/08/88	3	DRY					
2986	11/22/88	4	DRY					
2886	03/16/88	1	220 ± 20	NR	0.00 ± 0.15		0.00 ± 0.49	
2886	05/17/88	2	***					
2886	09/07/88	3	170 ± 10	NR	0.00 ± 0.01		0.01 ± 0.02	
2886	11/22/88	4	DRY					
3086	01/15/88	4	100 ± 22	5.6	0.00 ± .37	3.2	NR	
3086	01/16/88	4	***					
3086	03/16/88	1	NR	NR	0.00 ± 0.74		NR	
3086	05/23/88	2	140 ± 10	NR	0.00 ± 0.04	0.14	0.02 ± 0.07	1.6
3086	09/15/88	3	63 ± 2	NR	0.58 ± 0.29		0.03 ± 0.01	

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Alluvial

Well Number	Date Sampled	Qtr.	Tritium pCi/l	Radium 226 pCi/l	Radium 228 pCi/l
3787	11/22/88	4	DRY		
0460	01/05/88	4	1600 ± 100	NR	NR
0460	03/16/88	1	1100 ± 100	NR	NR
0460	05/17/88	2	790 ± 110	NR	NR
0460	09/07/88	3	1300 ± 100	NR	NR
0460	09/07/88	3	1300 ± 100	NR	NR
0460	12/02/88	4	1300 ± 100	NR	NR
2986	03/16/88	2	DRY		
2986	05/23/88	2	DRY		
2986	09/08/88	3	DRY		
2986	11/22/88	4	DRY		
2886	03/16/88	1	9000 ± 300	NR	NR
2886	05/17/88	2	***		
2886	09/07/88	3	5900 ± 200	NR	NR
2886	11/22/88	4	DRY		
3086	01/15/88	4	7900 ± 200	NR	NR
3086	01/16/88	4	***		
3086	03/16/88	1	6300 ± 200	NR	NR
3086	05/23/88	2	6100 ± 200	NR	NR
3086	09/15/88	3	8100 ± 300	NR	NR

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Alluvial

Well Number	Date Sampled	Qtr.	Gross Alpha pCi/l	Gross Beta pCi/l		Uranium 233, 234 pCi/l	Uranium 235 pCi/l
3086	12/02/88	4	120 ± 110	110 ± 60		110 ± 10	3.5 ± 0.5
0260	01/05/88	4	22 ± 16	72 ± 10		10 ± 2	.34 ± .17
0260	03/16/88	1	16 ± 50	29 ± 66		5.0 ± 1.7	0.28 ± 0.28
0260	05/23/88	2	63 ± 21	110 ± 30		13 ± 1	0.56 ± 0.12
0260	09/09/88	3	-10 ± 150	92 ± 76		11 ± 1	0.3 ± 0.1
0260	12/02/88	4	-80 ± 140	64 ± 71		12 ± 1	0.3 ± 0.2
1886	03/14/88	1	DRY				
1886	05/16/88	2	DRY				
1886	08/30/88	3	DRY				
1886	11/22/88	4	DRY				
1786	03/14/88	1	28 ± 12	25 ± 13		28 ± 2	1.2 ± 0.2
1786	05/16/88	2	34 ± 12	23 ± 17	33	30 ± 3	0.89 ± 0.12
1786	08/31/88	3	26 ± 58	41 ± 23		24 ± 1	0.5 ± 0.2
1786	11/29/88	4	110 ± 70	10 ± 22		29 ± 2	1.1 ± 0.3
1586	03/14/88	1	26 ± 6	4 ± 11		18 ± 1	0.69 ± 0.14
1586	05/16/88	2	25 ± 11	26 ± 15	33	15 ± 1	0.47 ± 0.07
1586	09/01/88	3	16 ± 20	23 ± 8		17 ± 1	0.6 ± 0.2
1586	11/29/88	4	27 ± 19	14 ± 7		18 ± 1	0.5 ± 0.2
1386	03/14/88	1	***				

VALUE QUALIFIERS: NR = Analyte not reported *** = Insufficient Sample for Radiochemistry Analyses

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Alluvial

Well Number	Date Sampled	Qtr.	Uranium 238 pCi/l	Strontium 89, 90 pCi/l	Plutonium 239, 240 pCi/l		Americium 241 pCi/l	
3086	12/02/88	4	75 ± 2	NR	0.00 ± 0.02		0.02 ± 0.02	
0260	01/05/88	4	6.6 ± 1.1	NR	0.00 ± .20	1.1	NR	
0260	03/16/88	1	4.1 ± 1.5	NR	0.00 ± 0.22		0.00 ± 1.1	
0260	05/23/88	2	9.3 ± 1.0	NR	0.00 ± 0.04	0.12	0.00 ± 0.06	1.8
0260	09/09/88	3	7.7 ± 0.8	NR	0.01 ± 0.01		0.01 ± 0.01	
0260	12/02/88	4	7.3 ± 0.8	NR	0.01 ± 0.02		0.03 ± 0.02	
1886	03/14/88	1	DRY					
1886	05/16/88	2	DRY					
1886	08/30/88	3	DRY					
1886	11/22/88	4	DRY					
1786	03/14/88	1	15 ± 1	NR	0.00 ± 0.40		0.00 ± 0.42	
1786	05/16/88	2	23 ± 2	NR	0.00 ± 0.09	0.23	0.00 ± 0.09	0.35
1786	08/31/88	3	17 ± 1	NR	0.05 ± 0.02		0.01 ± 0.01	
1786	11/29/88	4	23 ± 1	NR	0.00 ± 0.02		0.00 ± 0.03	
1586	03/14/88	1	14 ± 1	NR	0.00 ± 0.78		0.00 ± 0.50	
1586	05/16/88	2	13 ± 1	NR	0.00 ± 0.03	0.23	NR	
1586	09/01/88	3	13 ± 1	NR	0.01 ± 0.01		0.01 ± 0.01	
1586	11/29/88	4	14 ± 1	NR	-0.01 ± 0.02		0.01 ± 0.02	
1386	03/14/88	1	***					

VALUE QUALIFIERS: NR = Analyte not reported *** = Insufficient Sample for Radiochemistry Analyses

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Alluvial

Well Number	Date Sampled	Qtr.	Tritium pCi/l	Radium 226 pCi/l	Radium 228 pCi/l
3086	12/02/88	4	5900 ± 200	NR	NR
0260	01/05/88	4	870 ± 100	NR	NR
0260	03/16/88	1	710 ± 110	NR	NR
0260	05/23/88	2	830 ± 100	NR	NR
0260	09/09/88	3	700 ± 110	NR	NR
0260	12/02/88	4	470 ± 110	NR	NR
1886	03/14/88	1	DRY		
1886	05/16/88	2	DRY		
1886	08/30/88	3	DRY		
1886	11/22/88	4	DRY		
1786	03/14/88	1	700 ± 100	NR	NR
1786	05/16/88	2	650 ± 110	NR	NR
1786	08/31/88	3	840 ± 110	NR	NR
1786	11/29/88	4	960 ± 120	NR	NR
1586	03/14/88	1	240 ± 100	NR	NR
1586	05/16/88	2	<210	NR	NR
1586	09/01/88	3	<200	NR	NR
1586	11/29/88	4	<230	NR	NR
1386	03/14/88	1	***		

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Alluvial

Well Number	Date Sampled	Qtr.	Gross Alpha pCi/l	Gross Beta pCi/l	Uranium 233, 234 pCi/l	Uranium 235 pCi/l
1386	05/16/88	2	***			
1386	08/31/88	3	***			
1386	11/30/88	4	***			
2086	03/16/88	1	DRY			
2086	05/23/88	2	DRY			
2086	09/06/88	3	DRY			
2086	11/22/88	4	DRY			

VALUE QUALIFIERS: NR = Analyte not reported *** = Insufficient Sample for Radiochemistry Analyses

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Alluvial

Well Number	Date Sampled	Qtr.	Uranium 238 pCi/l	Strontium 89, 90 pCi/l	Plutonium 239, 240 pCi/l	Americium 241 pCi/l
1386	05/16/88	2	***			
1386	08/31/88	3	***			
1386	11/30/88	4	***			
2086	03/16/88	1	DRY			
2086	05/23/88	2	DRY			
2086	09/06/88	3	DRY			
2086	11/22/88	4	DRY			

VALUE QUALIFIERS: NR = Analyte not reported *** = Insufficient Sample for Radiochemistry Analyses

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Alluvial

Well Number	Date Sampled	Qtr.	Tritium pCi/l	Radium 226 pCi/l	Radium 228 pCi/l
1386	05/16/88	2	***		
1386	08/31/88	3	***		
1386	11/30/88	4	***		
2086	03/16/88	1	DRY		
2086	05/23/88	2	DRY		
2086	09/06/88	3	DRY		
2086	11/22/88	4	DRY		

VALUE QUALIFIERS: NR = Analyte not reported *** = Insufficient Sample for Radiochemistry Analyses

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Bedrock

Well Number	Date Sampled	Qtr.	Gross Alpha pCi/l		Gross Beta pCi/l		Uranium 233, 234 pCi/l		Uranium 235 pCi/l	
2386	01/15/88	4	11 ± 8	12	28 ± 13		2.7 ± 0.4		.06 ± .06	.14
2386	03/21/88	1	0 ± 9		17 ± 23		2.9 ± 0.4		0.14 ± 0.08	
2386	05/23/88	2	19 ± 8		17 ± 15	32	3.3 ± 0.4		0.04 ± 0.04	0.07
2386	09/08/88	3	***							
2386	11/30/88	4	***							
2586	01/15/88	4	3 ± 8	15	13 ± 14	25	5.1 ± 0.8		.18 ± .09	
2586	01/15/88	4	13 ± 11	18	13 ± 14	25	6.6 ± 1.1		.19 ± .14	.28
2586	03/21/88	1	0 ± 10		13 ± 22		4.3 ± 0.7		0.26 ± 0.14	
2586	05/18/88	2	7 ± 7	13	11 ± 17	39	4.3 ± 0.4		0.08 ± 0.04	0.14
2586	09/13/88	3	12 ± 32		15 ± 11		3.9 ± 0.5		0.0 ± 0.1	
2586	09/13/88	3	7 ± 30		16 ± 12		4.6 ± 0.7		0.0 ± 0.1	
2586	12/06/88	4	12 ± 26		11 ± 11		4.3 ± 0.8		0.1 ± 0.1	
3486	03/02/88	1	6 ± 13	28	4 ± 21	49	0.17 ± 0.16	0.56	0.00 ± 0.04	0.28
3486	05/02/88	2	8 ± 9	17	5 ± 24	55	0.06 ± 0.24	2.1	0.01 ± 0.03	0.24
3486	08/10/88	3	-3 ± 3		7 ± 5		0.83 ± 0.27		0.00 ± 0.03	
3486	11/04/88	4	Data not yet received							
2786	03/21/88	1	-1 ± 9		11 ± 22		NR		NR	
2786	05/18/88	2	4 ± 7	7	-4 ± 17	40	0.56 ± 0.14	0.72	0.00 ± 0.02	0.08
2786	09/13/88	3	-7 ± 13		-1 ± 11		NR		NR	
2786	12/06/88	4	-8 ± 9		2 ± 5		0.5 ± 0.3		0.0 ± 0.1	

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Bedrock

Well Number	Date Sampled	Qtr.	Uranium 238 pCi/l		Strontium 89, 90 pCi/l	Plutonium 239, 240 pCi/l		Americium 241 pCi/l	
2386	01/15/88	4	1.1 ± 0.2		<1.0	0.00 ± .16	.91	.01 ± .11	.61
2386	03/21/88	1	1.0 ± 0.2		NR	0.00 ± 0.71		0.05 ± 0.10	
2386	05/23/88	2	1.5 ± 0.3		NR	0.00 ± 0.04	0.13	0.04 ± 0.11	0.67
2386	09/08/88	3	***						
2386	11/30/88	4	***						
2586	01/15/88	4	1.4 ± 0.3		NR	0.00 ± .49	5.9	NR	
2586	01/15/88	4	2.1 ± 0.5		<1.0	0.00 ± .24	1.2	0.00 ± .10	.53
2586	03/21/88	1	1.1 ± 0.3		NR	NR		0.03 ± 0.30	
2586	05/18/88	2	1.7 ± 0.3		NR	0.02 ± 0.05	0.15	NR	
2586	09/13/88	3	1.4 ± 0.3		NR	0.01 ± 0.01		0.01 ± 0.03	
2586	09/13/88	3	1.6 ± 0.4		NR	0.00 ± 0.01		0.04 ± 0.06	
2586	12/06/88	4	1.2 ± 0.5		NR	**		0.04 ± 0.04	
3486	03/02/88	1	0.13 ± 0.13	0.43	NR	0.00 ± 0.40	3.6	0.00 ± 0.47	3.0
3486	05/02/88	2	0.19 ± 0.23	2.0	NR	0.00 ± 0.04	0.13	0.02 ± 0.10	0.33
3486	08/10/88	3	0.10 ± 0.16		NR	0.00 ± 0.04		0.00 ± 0.09	
3486	11/04/88	4	Data not yet received						
2786	03/21/88	1	NR		NR	0.00 ± 0.18		0.00 ± 0.51	
2786	05/18/88	2	0.17 ± 0.13	0.70	NR	0.02 ± 0.05	0.15	0.01 ± 0.09	0.31
2786	09/13/88	3	NR		NR	NR		NR	
2786	12/06/88	4	0.5 ± 0.2		NR	0.00 ± 0.02		0.01 ± 0.02	

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Bedrock

Well Number	Date Sampled	Qtr.	Tritium pCi/l	Radium 226 pCi/l	Radium 228 pCi/l
2386	01/15/88	4	<220	NR	NR
2386	03/21/88	1	< 210	NR	NR
2386	05/23/88	2	<200	NR	NR
2386	09/08/88	3	***		
2386	11/30/88	4	***		
2586	01/15/88	4	<220	NR	NR
2586	01/15/88	4	<220	NR	NR
2586	03/21/88	1	< 210	NR	NR
2586	05/18/88	2	<200	NR	NR
2586	09/13/88	3	<200	NR	NR
2586	09/13/88	3	<200	NR	NR
2586	12/06/88	4	<220	NR	NR
3486	03/02/88	1	<210	NR	NR
3486	05/02/88	2	<210	NR	NR
3486	08/10/88	3	210	NR	NR
3486	11/04/88	4	Data not yet received		
2786	03/21/88	1	< 210	NR	NR
2786	05/18/88	2	<200	NR	NR
2786	09/13/88	3	<200	NR	NR
2786	12/06/88	4	<220	NR	NR

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Bedrock

Well Number	Date Sampled	Qtr.	Gross Alpha pCi/l		Gross Beta pCi/l		Uranium 233, 234 pCi/l		Uranium 235 pCi/l	
3086	01/15/88	4	304 ± 69		215 ± 20		160 ± 34		5.2 ± 1.4	
3086	01/16/88	4	***							
3086	03/16/88	1	320 ± 60		250 ± 40		NR		NR	
3086	05/23/88	2	390 ± 60		290 ± 40		210 ± 20		7.8 ± 1.1	
3086	09/15/88	3	220 ± 170		130 ± 60		99 ± 2		3.0 ± 0.4	
3086	12/02/88	4	120 ± 110		110 ± 60		110 ± 10		3.5 ± 0.5	
3186	03/16/88	2	DRY							
3186	05/18/88	2	DRY							
3186	09/13/88	3	DRY							
3186	11/22/88	4	DRY							
3286	03/21/88	1	0 ± 9		5 ± 22		0.33 ± 0.15		0.14 ± 0.10	
3286	05/18/88	2	3 ± 4	7	-5 ± 10	23	0.65 ± 0.14	0.60	0.04 ± 0.02	0.07
3286	09/13/88	3	-7 ± 8		5 ± 4		0.6 ± 0.2		0.0 ± 0.1	
3286	12/02/88	4	-5 ± 6		5 ± 4		0.9 ± 0.3		0.0 ± 0.1	
1686	03/14/88	1	-1 ± 6		12 ± 56		1.1 ± 0.2		0.06 ± 0.07	
1686	05/16/88	2	-2 ± 11	25	12 ± 14	32	0.39 ± 0.13	0.51	0.01 ± 0.02	0.06
1686	08/31/88	3	-15 ± 20		11 ± 9		0.4 ± 0.4		0.0 ± 0.1	
1686	08/31/88	3	-19 ± 20		12 ± 9		0.4 ± 0.2		0.0 ± 0.1	
1686	11/29/88	4	17 ± 21		5 ± 9		0.3 ± 0.2		0.1 ± 0.1	

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Bedrock

Well Number	Date Sampled	Qtr.	Uranium 238 pCi/l		Strontium 89, 90 pCi/l	Plutonium 239, 240 pCi/l		Americium 241 pCi/l	
3086	01/15/88	4	100 ± 22		5.6	0.00 ± .37	3.2	NR	
3086	01/16/88	4	***						
3086	03/16/88	1	NR		NR	0.00 ± 0.74		NR	
3086	05/23/88	2	140 ± 10		NR	0.00 ± 0.04	0.14	0.02 ± 0.07	1.6
3086	09/15/88	3	63 ± 2		NR	0.58 ± 0.29		0.03 ± 0.01	
3086	12/02/88	4	75 ± 2		NR	0.00 ± 0.02		0.02 ± 0.02	
3186	03/16/88	2	DRY						
3186	05/18/88	2	DRY						
3186	09/13/88	3	DRY						
3186	11/22/88	4	DRY						
3286	03/21/88	1	1.7 ± 0.3		NR	0.00 ± 0.38		0.10 ± 0.10	
3286	05/18/88	2	0.18 ± 0.12	0.54	NR	0.00 ± 0.05	0.21	0.00 ± 0.09	0.65
3286	09/13/88	3	0.2 ± 0.1		NR	0.01 ± 0.01		0.02 ± 0.01	
3286	12/02/88	4	0.5 ± 0.2		NR	0.00 ± 0.02		0.01 ± 0.02	
1686	03/14/88	1	0.52 ± 0.15		NR	0.00 ± 0.40		0.03 ± 0.14	
1686	05/16/88	2	0.15 ± 0.12	0.50	NR	0.00 ± 0.03	0.24	NR	
1686	08/31/88	3	0.0 ± 0.2		NR	**		0.01 ± 0.01	
1686	08/31/88	3	0.3 ± 0.2		NR	0.03 ± 0.01		-0.01 ± 0.01	
1686	11/29/88	4	0.3 ± 0.2		NR	**		0.01 ± 0.02	

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Bedrock

Well Number	Date Sampled	Qtr.	Tritium pCi/l	Radium 226 pCi/l	Radium 228 pCi/l
3086	01/15/88	4	7900 ± 200	NR	NR
3086	01/16/88	4	***		
3086	03/16/88	1	6300 ± 200	NR	NR
3086	05/23/88	2	6100 ± 200	NR	NR
3086	09/15/88	3	8100 ± 300	NR	NR
3086	12/02/88	4	5900 ± 200	NR	NR
3186	03/16/88	2	DRY		
3186	05/18/88	2	DRY		
3186	09/13/88	3	DRY		
3186	11/22/88	4	DRY		
3286	03/21/88	1	< 210	NR	NR
3286	05/18/88	2	<200	NR	NR
3286	09/13/88	3	<220	NR	NR
3286	12/02/88	4	<230	NR	NR
1686	03/14/88	1	< 200	NR	NR
1686	05/16/88	2	<220	NR	NR
1686	08/31/88	3	<200	NR	NR
1686	08/31/88	3	<200	NR	NR
1686	11/29/88	4	<220	NR	NR

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Bedrock

Well Number	Date Sampled	Qtr.	Gross Alpha pCi/l		Gross Beta pCi/l		Uranium 233, 234 pCi/l		Uranium 235 pCi/l	
1486	03/14/88	1	0 ± 5		7 ± 11		1.1 ± 0.2		0.00 ± 0.06	
1486	05/16/88	2	-5 ± 11	26	2 ± 14	32	0.84 ± 0.26	1.7	0.04 ± 0.04	0.20
1486	08/31/88	3	-15 ± 20		15 ± 9		0.6 ± 0.3		0.1 ± 0.1	
1486	11/29/88	4	5 ± 16		10 ± 7		0.7 ± 0.3		0.1 ± 0.1	
1486	11/29/88	4	3 ± 16		9 ± 7		0.6 ± 0.3		0.0 ± 0.1	

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Bedrock

Well Number	Date Sampled	Qtr.	Uranium 238 pCi/l		Strontium 89, 90 pCi/l	Plutonium 239, 240 pCi/l		Americium 241 pCi/l	
1486	03/14/88	1	0.30 ± 0.12		NR	0.00 ± 0.40		0.00 ± 0.61	
1486	05/16/88	2	0.17 ± 0.23	1.7	NR	0.00 ± 0.03	0.19	0.00 ± 0.09	0.33
1486	08/31/88	3	0.2 ± 0.2		NR	NR		0.01 ± 0.01	
1486	11/29/88	4	0.1 ± 0.1		NR	0.00 ± 0.02		0.00 ± 0.02	
1486	11/29/88	4	0.1 ± 0.1		NR	-0.02 ± 0.03		0.01 ± 0.03	

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Solar Ponds Bedrock

Well Number	Date Sampled	Qtr.	Tritium pCi/l	Radium 226 pCi/l	Radium 228 pCi/l
1486	03/14/88	1	< 210	NR	NR
1486	05/16/88	2	<220	NR	NR
1486	08/31/88	3	<210	NR	NR
1486	11/29/88	4	<240	NR	NR
1486	11/29/88	4	<230	NR	NR

VALUE QUALIFIERS: NR = Analyte not reported *** = Insufficient Sample for Radiochemistry Analyses

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

W.Spray Field Alluvial

Well Number	Date Sampled	Qtr.	Gross Alpha pCi/l		Gross Beta pCi/l		Uranium 233, 234 pCi/l		Uranium 235 pCi/l	
1081	01/12/88	4	3 ± 4	7	1 ± 9	16	.05 ± .10	.42	0.00 ± .02	.12
1081	02/04/88	1	-2 ± 4		-9 ± 11		0.02 ± 0.08		0.01 ± 0.06	
1081	04/07/88	2	0 ± 4	9	15 ± 10	21	0.08 ± 0.22	1.8	0.02 ± 0.05	0.20
1081	07/07/88	3	1 ± 1	2	1 ± 1	4	0.00 ± 0.21	0.54	0.00 ± 0.03	0.07
1081	10/12/88	4	1 ± 1	2	2 ± 1	3	0.03 ± 0.06	0.16	0.01 ± 0.02	0.05
1081	10/12/88	4	1 ± 1	2	1 ± 1	3	0.18 ± 0.08		0.03 ± 0.03	0.05
0782	02/04/88	1	***							
0782	04/07/88	2	***							
0782	07/07/88	3	***							
0782	10/11/88	4	***							
5186	02/08/88	1	9 ± 5		12 ± 12		0.03 ± 0.12		0.02 ± 0.06	
5186	04/25/88	2	2 ± 3	6	4 ± 8	20	0.00 ± 0.24	1.2	0.00 ± 0.03	0.13
5186	04/26/88	2	3 ± 3	6	-3 ± 9	22	0.00 ± 0.24	1.6	0.00 ± 0.03	0.18
5186	07/07/88	3	1 ± 1	2	0 ± 1	4	0.00 ± 0.20	0.69	0.00 ± 0.03	0.09
5186	10/14/88	4	1 ± 1	2	2 ± 1	3	0.04 ± 0.06	0.16	0.00 ± 0.02	0.05
5086	03/25/88	1	8 ± 5	8	-14 ± 15	37	0.23 ± 0.11	0.32	0.01 ± 0.06	0.31
5086	05/31/88	2	6 ± 3		3 ± 9	20	0.41 ± 0.25	0.66	0.03 ± 0.04	0.08
5086	10/04/88	3	-1 ± 3		2 ± 3		0.5 ± 0.6		0.2 ± 0.5	
5086	12/20/88	4	-1 ± 2		3 ± 3		0.9 ± 0.3		0.0 ± 0.1	
4986	03/29/88	1	16 ± 5		4 ± 10	23	3.9 ± 0.5		0.21 ± 0.11	0.35

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

W.Spray Field Alluvial

Well Number	Date Sampled	Qtr.	Uranium 238 pCi/l		Strontium 89, 90 pCi/l	Plutonium 239, 240 pCi/l		Americium 241 pCi/l	
1081	01/12/88	4	.20 ± .12	.35	<1.0	0.00 ± .14	.98	0.00 ± .47	3.3
1081	02/04/88	1	0.12 ± 0.08		NR	0.00 ± 0.21		0.00 ± 0.32	
1081	04/07/88	2	0.09 ± 0.26	2.1	NR	0.00 ± 0.04	0.18	0.00 ± 0.19	0.51
1081	07/07/88	3	0.00 ± 0.16	0.40	NR	0.00 ± 0.04	0.09	0.00 ± 0.12	0.36
1081	10/12/88	4	-0.02 ± 0.06	0.20	NR	0.00 ± 0.03	0.06	-0.01 ± 0.08	0.18
1081	10/12/88	4	0.10 ± 0.08	0.18	NR	0.00 ± 0.03	0.07	-0.07 ± 0.08	0.23
0782	02/04/88	1	***						
0782	04/07/88	2	***						
0782	07/07/88	3	***						
0782	10/11/88	4	***						
5186	02/08/88	1	0.13 ± 0.10		NR	0.00 ± 0.18		NR	
5186	04/25/88	2	0.00 ± 0.23	1.1	NR	0.02 ± 0.05	0.11	0.02 ± 0.10	0.38
5186	04/26/88	2	0.05 ± 0.23	1.5	NR	0.01 ± 0.05	0.13	0.05 ± 0.10	0.38
5186	07/07/88	3	0.00 ± 0.15	0.51	NR	0.00 ± 0.04	0.09	0.00 ± 0.09	0.40
5186	10/14/88	4	0.02 ± 0.07	0.19	NR	-0.01 ± 0.03	0.08	0.02 ± 0.08	0.52
5086	03/25/88	1	0.16 ± 0.09	0.29	NR	0.02 ± 0.33	1.6	NR	
5086	05/31/88	2	0.17 ± 0.23	0.64	NR	0.00 ± 0.04	0.11	0.02 ± 0.10	0.44
5086	10/04/88	3	0.3 ± 0.6		NR	0.00 ± 0.03		0.00 ± 0.03	
5086	12/20/88	4	0.4 ± 0.2		NR	0.00 ± 0.02		0.00 ± 0.01	
4986	03/29/88	1	4.7 ± 0.6		NR	0.00 ± 0.18	0.99	0.13 ± 0.22	1.2

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

W.Spray Field Alluvial

Well Number	Date Sampled	Qtr.	Tritium pCi/l	Radium 226 pCi/l	Radium 228 pCi/l
1081	01/12/88	4	<220	NR	NR
1081	02/04/88	1	230 ± 100	NR	NR
1081	04/07/88	2	380 ± 100	NR	NR
1081	07/07/88	3	<210	NR	NR
1081	10/12/88	4	<220	NR	NR
1081	10/12/88	4	330 ± 100	NR	NR
0782	02/04/88	1	***		
0782	04/07/88	2	***		
0782	07/07/88	3	***		
0782	10/11/88	4	***		
5186	02/08/88	1	<210	NR	NR
5186	04/25/88	2	220 ± 100	NR	NR
5186	04/26/88	2	<220	NR	NR
5186	07/07/88	3	<210	NR	NR
5186	10/14/88	4	270 ± 90	NR	NR
5086	03/25/88	1	<220	NR	NR
5086	05/31/88	2	230 ± 90	NR	NR
5086	10/04/88	3	<220	NR	NR
5086	12/20/88	4	<240	NR	NR
4986	03/29/88	1	<200	NR	NR

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

W.Spray Field Alluvial

Well Number	Date Sampled	Qtr.	Gross Alpha pCi/l		Gross Beta pCi/l		Uranium 233, 234 pCi/l		Uranium 235 pCi/l	
4986	05/31/88	2	2 ± 5	12	-6 ± 13	31	0.01 ± 0.24	0.53	0.00 ± 0.03	0.06
4986	09/30/88	3	-1 ± 2		0 ± 2		**		**	
4986	12/20/88	4	2 ± 2		0 ± 2		0.2 ± 0.2		0.0 ± 0.1	
0582	01/07/88	4	1 ± 7	13	8 ± 12	21	0.00 ± .09	.39	0.00 ± .04	.14
0582	03/24/88	1	1 ± 6	12	4 ± 18	42	0.22 ± 0.18	0.77	0.07 ± 0.12	0.76
0582	05/25/88	2	3 ± 4	7	7 ± 8	18	0.13 ± 0.24	0.57	0.00 ± 0.03	0.07
0582	09/27/88	3	1 ± 3		1 ± 2		5.7 ± 2.8		-0.2 ± 0.7	
0582	12/20/88	4	NR		NR		NR		NR	
0682	01/07/88	4	26 ± 8		24 ± 12		.03 ± .08	.35	.01 ± .04	.11
0682	03/24/88	1	0 ± 3	7	-1 ± 9	22	0.00 ± 0.12	0.56	0.03 ± 0.07	0.53
0682	05/25/88	2	5 ± 3	6	11 ± 9	18	0.04 ± 0.17	0.72	0.00 ± 0.02	0.08
0682	09/27/88	3	0 ± 2		-1 ± 2		0.2 ± 1.2		0.4 ± 1.2	
0682	12/19/88	4	***							
4786	02/08/88	1	3 ± 4		15 ± 13		0.16 ± 0.12		0.00 ± 0.06	
4786	04/25/88	2	2 ± 4	11	-6 ± 6	22	0.11 ± 0.24	1.1	0.01 ± 0.03	0.13
4786	07/11/88	3	2 ± 1	2	0 ± 2	4	0.14 ± 0.21	0.68	0.00 ± 0.03	0.09
4786	10/14/88	4	2 ± 1		2 ± 1	3	0.30 ± 0.10		0.01 ± 0.02	0.04
4586	03/25/88	1	3 ± 3	6	-4 ± 10	23	0.09 ± 0.11	0.42	0.03 ± 0.07	0.41
4586	05/26/88	2	8 ± 4		2 ± 9	21	0.00 ± 0.23	0.60	0.00 ± 0.03	0.07
4586	09/29/88	3	2 ± 2		1 ± 2		0.8 ± 1.3		0.3 ± 1.2	

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

W.Spray Field Alluvial

Well Number	Date Sampled	Qtr.	Uranium 238 pCi/l		Strontium 89, 90 pCi/l	Plutonium 239, 240 pCi/l		Americium 241 pCi/l	
4986	05/31/88	2	0.00 ± 0.22	0.51	NR	0.00 ± 0.04	0.12	0.00 ± 0.10	0.39
4986	09/30/88	3	**		NR	-0.01 ± 0.03		0.01 ± 0.03	
4986	12/20/88	4	0.0 ± 0.1		NR	0.00 ± 0.02		0.01 ± 0.01	
0582	01/07/88	4	0.00 ± .07	.32	<1.0	0.00 ± .14	.79	NR	
0582	03/24/88	1	0.00 ± 0.11	0.74	NR	0.00 ± 0.39	1.5	NR	
0582	05/25/88	2	0.18 ± 0.23	0.55	NR	0.00 ± 0.04	0.13	0.06 ± 0.09	0.40
0582	09/27/88	3	3.2 ± 2.0		NR	0.01 ± 0.03		0.00 ± 0.02	
0582	12/20/88	4	NR		NR	NR		NR	
0682	01/07/88	4	.14 ± .10	.29	<1.0	0.00 ± .17	.83	0.00 ± .20	3.7
0682	03/24/88	1	0.03 ± 0.07	0.51	NR	0.00 ± 0.13	0.67	NR	
0682	05/25/88	2	0.07 ± 0.17	0.69	NR	0.00 ± 0.03	0.12	0.00 ± 0.09	0.63
0682	09/27/88	3	0.2 ± 1.2		NR	0.00 ± 0.03		0.00 ± 0.02	
0682	12/19/88	4	***						
4786	02/08/88	1	0.05 ± 0.07		NR	0.00 ± 0.21		NR	
4786	04/25/88	2	0.18 ± 0.23	1.1	NR	0.00 ± 0.05	0.13	0.08 ± 0.10	0.37
4786	07/11/88	3	0.23 ± 0.17	0.50	NR	0.12 ± 0.07		0.01 ± 0.17	1.2
4786	10/14/88	4	0.19 ± 0.09		NR	0.01 ± 0.03	0.07	0.00 ± 0.06	0.35
4586	03/25/88	1	0.03 ± 0.08	0.41	NR	0.00 ± 0.13	0.51	NR	
4586	05/26/88	2	0.00 ± 0.22	0.58	NR	0.00 ± 0.04	0.15	NR	
4586	09/29/88	3	0.4 ± 1.3		NR	0.00 ± 0.03		0.01 ± 0.02	

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

W.Spray Field Alluvial

Well Number	Date Sampled	Qtr.	Tritium pCi/l	Radium 226 pCi/l	Radium 228 pCi/l
4986	05/31/88	2	<200	NR	NR
4986	09/30/88	3	<220	NR	NR
4986	12/20/88	4	<240	NR	NR
0582	01/07/88	4	<200	NR	NR
0582	03/24/88	1	<200	NR	NR
0582	05/25/88	2	<210	NR	NR
0582	09/27/88	3	<200	NR	NR
0582	12/20/88	4	<240	NR	NR
0682	01/07/88	4	<200	NR	NR
0682	03/24/88	1	<210	NR	NR
0682	05/25/88	2	<200	NR	NR
0682	09/27/88	3	<190	NR	NR
0682	12/19/88	4	***		
4786	02/08/88	1	<210	NR	NR
4786	04/25/88	2	<200	NR	NR
4786	07/11/88	3	<200	NR	NR
4786	10/14/88	4	<220	NR	NR
4586	03/25/88	1	<210	NR	NR
4586	05/26/88	2	<210	NR	NR
4586	09/29/88	3	<200	NR	NR

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

W.Spray Field Alluvial

Well Number	Date Sampled	Qtr.	Gross Alpha pCi/l		Gross Beta pCi/l		Uranium 233, 234 pCi/l		Uranium 235 pCi/l	
4586	12/16/88	4	3 ± 2		3 ± 2		0.1 ± 0.1		0.0 ± 0.1	
0881	01/14/88	4	4 ± 7	13	-2 ± 11	22	3.6 ± 0.5		.12 ± .06	.16
0881	03/24/88	1	10 ± 6	10	4 ± 10	21	3.3 ± 0.4		0.16 ± 0.09	0.29
0881	05/25/88	2	11 ± 4		15 ± 9	18	3.2 ± 0.3		0.06 ± 0.03	0.13
0881	10/04/88	3	0 ± 4		5 ± 3		3.3 ± 0.9		0.3 ± 0.6	
0881	10/04/88	3	5 ± 5		5 ± 3		3.6 ± 1.4		0.2 ± 1.0	
0881	12/22/88	4	2 ± 4		5 ± 3		2.5 ± 0.4		0.0 ± 0.1	
0981	01/13/88	4	3 ± 7	13	5 ± 12	22	0.00 ± .07	.64	0.00 ± .04	.19
0981	03/24/88	1	7 ± 6	12	-6 ± 14	34	0.42 ± 0.26	0.81	0.02 ± 0.10	0.77
0981	03/24/88	1	1 ± 5	12	2 ± 16	37	0.39 ± 0.14		0.00 ± 0.06	0.34
0981	05/25/88	2	6 ± 5	10	17 ± 14	31	0.72 ± 0.26		0.03 ± 0.04	0.08
0981	05/26/88	2	7 ± 5	10	17 ± 14	31	0.72 ± 0.19		0.02 ± 0.03	0.08
0981	09/27/88	3	0 ± 4		2 ± 3		0.4 ± 0.5		0.1 ± 0.5	
0981	09/27/88	3	3 ± 5		1 ± 3		0.7 ± 0.9		0.2 ± 0.8	
0981	12/22/88	4	4 ± 4		4 ± 3		1.0 ± 0.3		0.0 ± 0.1	
0382	03/29/88	1	15 ± 11	16	-7 ± 9	2	6.4 ± 0.9		0.47 ± 0.17	0.53
0382	05/25/88	2	8 ± 4		3 ± 8	18	0.00 ± 0.23	0.63	0.00 ± 0.03	0.07
0382	09/28/88	3	-1 ± 2		1 ± 2		0.1 ± 0.5		0.2 ± 0.5	
0382	12/19/88	4	***							
5686	02/15/88	1	10 ± 4		4 ± 12		0.00 ± 0.09		0.00 ± 0.06	

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

W.Spray Field Alluvial

Well Number	Date Sampled	Qtr.	Uranium 238 pCi/l		Strontium 89, 90 pCi/l	Plutonium 239, 240 pCi/l		Americium 241 pCi/l	
4586	12/16/88	4	0.0 ± 0.1		NR	-0.01 ± 0.02		0.01 ± 0.01	
0881	01/14/88	4	2.5 ± 0.4		<1.0	0.00 ± .18	.82	.07 ± .10	.48
0881	03/24/88	1	2.0 ± 0.3		NR	0.00 ± 0.18	0.61	NR	
0881	05/25/88	2	2.0 ± 0.2		NR	0.00 ± 0.03	0.12	0.11 ± 0.10	2.9
0881	10/04/88	3	1.9 ± 0.8		NR	0.00 ± 0.03		0.00 ± 0.03	
0881	10/04/88	3	3.1 ± 1.4		NR	0.00 ± 0.03		0.01 ± 0.02	
0881	12/22/88	4	1.6 ± 0.4		NR	-0.01 ± 0.02		0.00 ± 0.01	
0981	01/13/88	4	.08 ± .11	.54	<1.0	0.00 ± .17	1.0	0.00 ± .21	1.6
0981	03/24/88	1	0.24 ± 0.19	0.75	NR	0.00 ± 0.23	1.7	NR	
0981	03/24/88	1	0.29 ± 0.13	0.33	NR	0.00 ± 0.21	1.4	NR	
0981	05/25/88	2	0.54 ± 0.25	0.67	NR	0.00 ± 0.03	0.14	NR	
0981	05/26/88	2	0.60 ± 0.18	0.66	NR	0.00 ± 0.03	0.13	NR	
0981	09/27/88	3	0.5 ± 0.5		NR	0.01 ± 0.03		0.00 ± 0.02	
0981	09/27/88	3	0.5 ± 0.8		NR	0.00 ± 0.03		-0.01 ± 0.02	
0981	12/22/88	4	0.7 ± 0.3		NR	-0.01 ± 0.02		0.00 ± 0.01	
0382	03/29/88	1	5.8 ± 0.8		NR	0.00 ± 0.43	2.0	0.00 ± 0.18	0.87
0382	05/25/88	2	0.00 ± 0.22	0.60	NR	0.00 ± 0.03	0.15	0.00 ± 0.09	0.37
0382	09/28/88	3	0.3 ± 0.6		NR	0.00 ± 0.03		0.01 ± 0.03	
0382	12/19/88	4	***						
5686	02/15/88	1	0.00 ± 0.08		NR	0.00 ± 0.19		0.00 ± 0.16	

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

W.Spray Field Alluvial

Well Number	Date Sampled	Qtr.	Tritium pCi/l	Radium 226 pCi/l	Radium 228 pCi/l
4586	12/16/88	4	<240	NR	NR
0881	01/14/88	4	<220	NR	NR
0881	03/24/88	1	<200	NR	NR
0881	05/25/88	2	<200	NR	NR
0881	10/04/88	3	<220	NR	NR
0881	10/04/88	3	<210	NR	NR
0881	12/22/88	4	<220	NR	NR
0981	01/13/88	4	<220	NR	NR
0981	03/24/88	1	<200	NR	NR
0981	03/24/88	1	<200	NR	NR
0981	05/25/88	2	<200	NR	NR
0981	05/26/88	2	<200	NR	NR
0981	09/27/88	3	<190	NR	NR
0981	09/27/88	3	<190	NR	NR
0981	12/22/88	4	<240	NR	NR
0382	03/29/88	1	<200	NR	NR
0382	05/25/88	2	<210	NR	NR
0382	09/28/88	3	<210	NR	NR
0382	12/19/88	4	***		
5686	02/15/88	1	<210	NR	NR

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

W.Spray Field Alluvial

Well Number	Date Sampled	Qtr.	Gross Alpha pCi/l		Gross Beta pCi/l		Uranium 233, 234 pCi/l		Uranium 235 pCi/l	
5686	04/07/88	2	1 ± 4	10	-3 ± 10	23	0.13 ± 0.22	1.3	0.02 ± 0.03	0.19
5686	07/13/88	3	2 ± 1		4 ± 3		0.04 ± 0.10		0.00 ± 0.03	
5686	10/20/88	4	Data not yet received							
5686	10/20/88	4	Data not yet received							

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

W.Spray Field Alluvial

Well Number	Date Sampled	Qtr.	Uranium 238 pCi/l		Strontium 89, 90 pCi/l	Plutonium 239, 240 pCi/l		Americium 241 pCi/l	
5686	04/07/88	2	0.00 ± 0.26	1.6	NR	0.04 ± 0.04	0.26	0.00 ± 0.16	0.47
5686	07/13/88	3	0.00 ± 0.14		NR	0.00 ± 0.04		0.02 ± 0.09	
5686	10/20/88	4	Data not yet received						
5686	10/20/88	4	Data not yet received						

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

W.Spray Field Alluvial

Well Number	Date Sampled	Qtr.	Tritium pCi/l	Radium 226 pCi/l	Radium 228 pCi/l
5686	04/07/88	2	<220	NR	NR
5686	07/13/88	3	200	NR	NR
5686	10/20/88	4	Data not yet received		
5686	10/20/88	4	Data not yet received		

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Landfill Bedrock

Well Number	Date Sampled	Qtr.	Gross Alpha pCi/l		Gross Beta pCi/l		Uranium 233, 234 pCi/l		Uranium 235 pCi/l	
0986	01/18/88	4	2 ± 5	9	-1 ± 11	22	3.0 ± 0.5		.06 ± .10	.23
0986	02/04/88	1	1 ± 5		-4 ± 11		1.1 ± 0.24		0.09 ± 0.07	
0986	06/06/88	2	11 ± 5		5 ± 7	17	0.80 ± 0.26	0.85	0.00 ± 0.03	0.10
0986	06/07/88	2	2 ± 5	12	6 ± 8	17	1.1 ± 0.3		0.00 ± 0.03	0.07
0986	09/20/88	3	0 ± 4		3 ± 3		0.8 ± 0.3		0.0 ± 0.1	
0986	12/16/88	4	3 ± 4		4 ± 3		1.1 ± 0.3		0.0 ± 0.1	
0886	02/04/88	1	3 ± 5		-7 ± 12		2.9 ± 0.63		0.08 ± 0.12	
0886	06/14/88	2	***							
0886	09/14/88	3	***							
0886	12/15/88	4	***							

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Landfill Bedrock

Well Number	Date Sampled	Qtr.	Uranium 238 pCi/l		Strontium 89, 90 pCi/l	Plutonium 239, 240 pCi/l		Americium 241 pCi/l	
0986	01/18/88	4	.98 ± .28		<1.0	0.00 ± .14	.59	0.00 ± .12	.69
0986	02/04/88	1	0.24 ± 0.12		NR	0.0 ± 0.58		NR	
0986	06/06/88	2	0.17 ± 0.23	0.82	NR	0.00 ± 0.05	0.10	0.01 ± 0.10	0.66
0986	06/07/88	2	0.35 ± 0.24	0.57	NR	0.00 ± 0.04	0.10	0.00 ± 0.10	0.42
0986	09/20/88	3	0.2 ± 0.2		NR	0.00 ± 0.02		0.01 ± 0.01	
0986	12/16/88	4	0.2 ± 0.2		NR	0.01 ± 0.02		0.01 ± 0.01	
0886	02/04/88	1	0.90 ± 0.30		NR	0.0 ± 0.31		NR	
0886	06/14/88	2	***						
0886	09/14/88	3	***						
0886	12/15/88	4	***						

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Landfill Bedrock

Well Number	Date Sampled	Qtr.	Tritium pCi/l	Radium 226 pCi/l	Radium 228 pCi/l
0986	01/18/88	4	<220	NR	NR
0986	02/04/88	1	<210	NR	NR
0986	06/06/88	2	<220	NR	NR
0986	06/07/88	2	<210	NR	NR
0986	09/20/88	3	<200	NR	NR
0986	12/16/88	4	<240	NR	NR
0886	02/04/88	1	<210	NR	NR
0886	06/14/88	2	***		
0886	09/14/88	3	***		
0886	12/15/88	4	***		

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Landfill Alluvial

Well Number	Date Sampled	Qtr.	Gross Alpha pCi/l		Gross Beta pCi/l		Uranium 233, 234 pCi/l		Uranium 235 pCi/l	
1086	02/02/88	1	2 ± 4		-9 ± 11		6.3 ± 0.6		0.24 ± 0.09	
1086	06/06/88	2	6 ± 5	9	3 ± 7	17	0.00 ± 0.23	0.90	0.00 ± 0.03	0.10
1086	09/20/88	3	Data not yet received							
1086	09/20/88	3	1 ± 2		1 ± 2		0.0 ± 0.1		0.1 ± 0.1	
1086	12/07/88	4	0 ± 2		1 ± 2		0.0 ± 0.1		0.0 ± 0.1	
5887	01/22/88	1	9 ± 6		3 ± 12		0.49 ± 0.23		0.07 ± 0.07	
5887	06/06/88	2	4 ± 4	10	7 ± 7	17	0.22 ± 0.24	1.2	0.02 ± 0.03	0.14
5887	09/16/88	3	1 ± 3		1 ± 2		0.7 ± 0.3		0.1 ± 0.1	
5887	12/14/88	4	1 ± 2		5 ± 2		0.6 ± 0.2		0.0 ± 0.1	
5987	01/22/88	1	14 ± 7		5 ± 12		5.3 ± 0.6		0.22 ± 0.10	
5987	06/06/88	2	23 ± 7		19 ± 8		4.8 ± 0.5		0.12 ± 0.05	
5987	09/16/88	3	2 ± 11		-1 ± 5		5.3 ± 0.7		0.2 ± 0.1	
5987	12/06/88	4	***							
6087	01/22/88	1	10 ± 8		-9 ± 12		0.00 ± 0.11		0.00 ± 0.05	
6087	06/06/88	2	4 ± 6	12	6 ± 7	17	0.00 ± 0.23	0.65	0.00 ± 0.03	0.07
6087	09/22/88	3	0 ± 2		2 ± 2		0.1 ± 0.1		0.0 ± 0.1	
6087	12/06/88	4	0 ± 2		1 ± 2		0.1 ± 0.1		0.0 ± 0.1	
6187	01/26/88	1	0 ± 7		-4 ± 11		0.00 ± 0.07		0.01 ± 0.05	
6187	06/08/88	2	1 ± 4	8	2 ± 7	17	0.00 ± 0.23	1.5	0.00 ± 0.03	0.17
6187	09/23/88	3	2 ± 2		3 ± 2		0.3 ± 0.2		0.1 ± 0.1	

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Landfill Alluvial

Well Number	Date Sampled	Qtr.	Uranium 238 pCi/l		Strontium 89, 90 pCi/l	Plutonium 239, 240 pCi/l		Americium 241 pCi/l	
1086	02/02/88	1	5.1 ± 0.5		NR	0.00 ± 0.32		NR	
1086	06/06/88	2	0.00 ± 0.22	0.87	NR	0.00 ± 0.04	0.13	0.01 ± 0.10	0.44
1086	09/20/88	3	Data not yet received						
1086	09/20/88	3	0.0 ± 0.1		NR	0.00 ± 0.02		0.01 ± 0.01	
1086	12/07/88	4	0.1 ± 0.2		NR	0.01 ± 0.02		0.01 ± 0.01	
5887	01/22/88	1	0.48 ± 0.20		NR	0.00 ± 0.27		0.00 ± 0.44	
5887	06/06/88	2	0.24 ± 0.23	1.2	NR	0.00 ± 0.04	0.13	0.04 ± 0.10	0.38
5887	09/16/88	3	0.5 ± 0.2		NR	0.00 ± 0.02		0.01 ± 0.01	
5887	12/14/88	4	0.4 ± 0.2		NR	0.02 ± 0.02		0.01 ± 0.01	
5987	01/22/88	1	4.4 ± 0.6		NR	0.00 ± 0.24		0.00 ± 0.14	
5987	06/06/88	2	4.0 ± 0.5		NR	0.00 ± 0.04	0.19	0.00 ± 0.07	0.41
5987	09/16/88	3	5.2 ± 0.7		NR	0.00 ± 0.02		0.02 ± 0.01	
5987	12/06/88	4	***						
6087	01/22/88	1	0.01 ± 0.09		NR	0.00 ± 0.27		0.00 ± 0.10	
6087	06/06/88	2	0.00 ± 0.22	0.63	NR	0.00 ± 0.04	0.12	0.00 ± 0.10	0.44
6087	09/22/88	3	0.2 ± 0.1		NR	0.01 ± 0.02		0.00 ± 0.01	
6087	12/06/88	4	0.0 ± 0.2		NR	0.02 ± 0.03		0.01 ± 0.01	
6187	01/26/88	1	0.08 ± 0.08		NR	0.00 ± 0.24		0.02 ± 0.10	
6187	06/08/88	2	0.00 ± 0.22	1.5	NR	0.00 ± 0.04	0.12	0.00 ± 0.10	0.32
6187	09/23/88	3	0.2 ± 0.1		NR	0.00 ± 0.02		**	

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Landfill Alluvial

Well Number	Date Sampled	Qtr.	Tritium pCi/l	Radium 226 pCi/l	Radium 228 pCi/l
1086	02/02/88	1	<210	NR	NR
1086	06/06/88	2	<220	NR	NR
1086	09/20/88	3	Data not yet received		
1086	09/20/88	3	<200	NR	NR
1086	12/07/88	4	<230	NR	NR
5887	01/22/88	1	<210	NR	NR
5887	06/06/88	2	<220	NR	NR
5887	09/16/88	3	<200	NR	NR
5887	12/14/88	4	<240	NR	NR
5987	01/22/88	1	<220	NR	NR
5987	06/06/88	2	<210	NR	NR
5987	09/16/88	3	<200	NR	NR
5987	12/06/88	4	***		
6087	01/22/88	1	<220	NR	NR
6087	06/06/88	2	<210	NR	NR
6087	09/22/88	3	<190	NR	NR
6087	12/06/88	4	<240	NR	NR
6187	01/26/88	1	<220	NR	NR
6187	06/08/88	2	<220	NR	NR
6187	09/23/88	3	<200	NR	NR

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Landfill Alluvial

Well Number	Date Sampled	Qtr.	Gross Alpha pCi/l		Gross Beta pCi/l		Uranium 233, 234 pCi/l		Uranium 235 pCi/l	
6187	12/09/88	4	2 ± 2		0 ± 2		0.2 ± 0.2		0.0 ± 0.1	
6287	01/25/88	1	8 ± 6		1 ± 12		0.01 ± 0.10		0.02 ± 0.05	
6287	06/08/88	2	9 ± 4		14 ± 7		0.04 ± 0.23	1.8	0.05 ± 0.03	0.20
6287	09/23/88	3	Data not yet received							
6287	12/09/88	4	1 ± 2		2 ± 2		0.1 ± 0.1		0.0 ± 0.1	
6387	01/26/88	1	17 ± 7		8 ± 15		4.6 ± 0.4		0.18 ± 0.07	
6387	06/08/88	2	8 ± 5	10	15 ± 8	18	4.0 ± 0.5		0.10 ± 0.04	0.29
6387	09/23/88	3	4 ± 13		7 ± 7		3.4 ± 0.6		0.0 ± 0.1	
6387	12/09/88	4	-1 ± 4		5 ± 3		2.6 ± 0.4		0.1 ± 0.1	
6787	01/28/88	1	19 ± 7		3 ± 13		0.57 ± 0.18		0.00 ± 0.05	
6787	06/16/88	2	4 ± 5	11	5 ± 8	18	0.07 ± 0.24	0.55	0.00 ± 0.03	0.06
6787	08/18/88	3	DRY							
6787	09/22/88	3	-1 ± 3		3 ± 2		0.1 ± 0.1		0.0 ± 0.1	
6787	12/14/88	4	1 ± 3		2 ± 2		0.0 ± 0.1		0.0 ± 0.1	
6887	01/28/88	1	1 ± 4		-1 ± 12		0.05 ± 0.10		0.00 ± 0.04	
6887	06/16/88	2	5 ± 6	13	9 ± 7	17	0.00 ± 0.23	0.61	0.00 ± 0.03	0.07
6887	06/17/88	2	3 ± 5	11	3 ± 7	18	0.08 ± 0.24	0.57	0.00 ± 0.03	0.07
6887	09/22/88	3	1 ± 3		2 ± 2		0.0 ± 0.1		0.0 ± 0.1	
6887	12/14/88	4	2 ± 3		4 ± 2		0.0 ± 0.1		0.0 ± 0.1	

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Landfill Alluvial

Well Number	Date Sampled	Qtr.	Uranium 238 pCi/l		Strontium 89, 90 pCi/l	Plutonium 239, 240 pCi/l		Americium 241 pCi/l	
6187	12/09/88	4	0.1 ± 0.2		NR	0.01 ± 0.02		0.01 ± 0.01	
6287	01/25/88	1	0.01 ± 0.08		NR	0.01 ± 0.19		0.00 ± 0.16	
6287	06/08/88	2	0.06 ± 0.22	1.7	NR	0.00 ± 0.04	0.13	0.00 ± 0.10	0.30
6287	09/23/88	3	Data not yet received						
6287	12/09/88	4	0.0 ± 0.2		NR	0.01 ± 0.02		0.01 ± 0.01	
6387	01/26/88	1	3.6 ± 0.3		NR	0.21 ± 0.22		0.00 ± 0.24	
6387	06/08/88	2	2.5 ± 0.4		NR	0.00 ± 0.04	0.12	0.00 ± 0.10	0.32
6387	09/23/88	3	2.7 ± 0.5		NR	0.01 ± 0.02		0.02 ± 0.02	
6387	12/09/88	4	1.6 ± 0.3		NR	0.02 ± 0.02		-0.02 ± 0.04	
6787	01/28/88	1	0.48 ± 0.13		NR	0.02 ± 0.14		0.03 ± 0.06	
6787	06/16/88	2	0.05 ± 0.23	0.53	NR	0.00 ± 0.03	0.15	0.02 ± 0.08	0.79
6787	08/18/88	3	DRY						
6787	09/22/88	3	0.1 ± 0.1		NR	0.01 ± 0.02		0.00 ± 0.01	
6787	12/14/88	4	0.2 ± 0.2		NR	0.01 ± 0.02		0.02 ± 0.01	
6887	01/28/88	1	0.16 ± 0.10		NR	0.00 ± 0.16		0.00 ± 0.09	
6887	06/16/88	2	0.02 ± 0.23	0.58	NR	0.00 ± 0.03	0.14	0.05 ± 0.12	0.47
6887	06/17/88	2	0.05 ± 0.23	0.55	NR	0.00 ± 0.03	0.13	0.05 ± 0.08	1.2
6887	09/22/88	3	0.1 ± 0.1		NR	0.00 ± 0.02		0.00 ± 0.02	
6887	12/14/88	4	0.0 ± 0.2		NR	0.01 ± 0.02		0.01 ± 0.01	

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Landfill Alluvial

Well Number	Date Sampled	Qtr.	Tritium pCi/l	Radium 226 pCi/l	Radium 228 pCi/l
6187	12/09/88	4	<210	NR	NR
6287	01/25/88	1	<220	NR	NR
6287	06/08/88	2	<200	NR	NR
6287	09/23/88	3	Data not yet received		
6287	12/09/88	4	<240	NR	NR
6387	01/26/88	1	1900 ± 100	NR	NR
6387	06/08/88	2	<200	NR	NR
6387	09/23/88	3	2100 ± 100	NR	NR
6387	12/09/88	4	1800 ± 100	NR	NR
6787	01/28/88	1	<220	NR	NR
6787	06/16/88	2	<220	NR	NR
6787	08/18/88	3	DRY		
6787	09/22/88	3	<200	NR	NR
6787	12/14/88	4	<240	NR	NR
6887	01/28/88	1	<220	NR	NR
6887	06/16/88	2	<210	NR	NR
6887	06/17/88	2	<210	NR	NR
6887	09/22/88	3	<200	NR	NR
6887	12/14/88	4	<240	NR	NR

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Landfill Alluvial

Well Number	Date Sampled	Qtr.	Gross Alpha pCi/l		Gross Beta pCi/l		Uranium 233, 234 pCi/l		Uranium 235 pCi/l	
7187	01/29/88	1	5 ± 5		17 ± 10		0.22 ± 0.13		0.07 ± 0.08	
7187	06/08/88	2	3 ± 5	11	4 ± 8	17	1.1 ± 0.3	1.2	0.06 ± 0.04	0.13
7187	09/20/88	3	Data not yet received							
7187	12/06/88	4	7 ± 5		2 ± 2		0.6 ± 0.2		0.0 ± 0.1	
7187	12/06/88	4	6 ± 5		1 ± 2		1.1 ± 0.3		0.0 ± 0.1	
6687	01/29/88	1	2 ± 4		15 ± 11		0.80 ± 0.16		0.01 ± 0.04	
6687	06/14/88	2	3 ± 6	13	6 ± 8	18	0.84 ± 0.27		0.00 ± 0.03	0.09
6687	09/16/88	3	44 ± 9		16 ± 3		0.4 ± 0.2		0.0 ± 0.1	
6687	12/07/88	4	4 ± 3		5 ± 2		0.4 ± 0.2		0.0 ± 0.1	
6587	01/27/88	1	10 ± 6		8 ± 11		5.4 ± 1.9		0.27 ± 0.39	
6587	06/14/88	2	6 ± 6	14	10 ± 8	19	2.5 ± 0.4		0.06 ± 0.05	0.07
6587	09/23/88	3	Data not yet received							
6587	12/09/88	4	5 ± 4		4 ± 2		1.3 ± 0.3		0.0 ± 0.1	
6487	01/29/88	1	2 ± 4		16 ± 11		0.62 ± 0.37		0.02 ± 0.11	
6487	06/14/88	2	0 ± 4	9	4 ± 8	17	0.34 ± 0.25	0.59	0.01 ± 0.03	0.07
6487	09/23/88	3	9 ± 7		2 ± 3		0.6 ± 0.1		0.0 ± 0.1	
6487	12/08/88	4	***							
7287	01/28/88	1	6 ± 5		-3 ± 13		5.8 ± 0.9		0.27 ± 0.15	
7287	06/16/88	2	DRY							
7287	09/21/88	3	DRY							

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Landfill Alluvial

Well Number	Date Sampled	Qtr.	Uranium 238 pCi/l		Strontium 89, 90 pCi/l	Plutonium 239, 240 pCi/l		Americium 241 pCi/l	
7187	01/29/88	1	0.08 ± 0.10		NR	0.00 ± 0.15		0.00 ± 0.69	
7187	06/08/88	2	0.94 ± 0.25	1.1	NR	0.00 ± 0.04	0.12	0.00 ± 0.10	0.29
7187	09/20/88	3	Data not yet received						
7187	12/06/88	4	0.7 ± 0.3		NR	0.01 ± 0.02		0.02 ± 0.01	
7187	12/06/88	4	0.6 ± 0.3		NR	0.01 ± 0.02		0.01 ± 0.01	
6687	01/29/88	1	0.50 ± 0.13		NR	0.01 ± 0.18		0.00 ± 0.50	
6687	06/14/88	2	0.28 ± 0.23	0.73	NR	0.00 ± 0.04	0.12	0.00 ± 0.10	0.36
6687	09/16/88	3	0.2 ± 0.2		NR	0.00 ± 0.02		0.01 ± 0.01	
6687	12/07/88	4	0.3 ± 0.2		NR	0.02 ± 0.02		0.01 ± 0.01	
6587	01/27/88	1	4.3 ± 1.6		NR	0.01 ± 0.14		0.00 ± 0.50	
6587	06/14/88	2	2.0 ± 0.3		NR	0.01 ± 0.04	0.13	0.00 ± 0.10	0.34
6587	09/23/88	3	Data not yet received						
6587	12/09/88	4	0.8 ± 0.3		NR	0.01 ± 0.02		0.01 ± 0.01	
6487	01/29/88	1	0.84 ± 0.44		NR	0.00 ± 0.40		0.00 ± 0.71	
6487	06/14/88	2	0.23 ± 0.24	0.57	NR	0.00 ± 0.04	0.12	0.00 ± 0.10	0.28
6487	09/23/88	3	0.4 ± 0.1		NR	0.00 ± 0.02		0.01 ± 0.01	
6487	12/08/88	4	***						
7287	01/28/88	1	4.2 ± 0.7		NR	0.00 ± 0.19		0.00 ± 0.11	
7287	06/16/88	2	DRY						
7287	09/21/88	3	DRY						

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Landfill Alluvial

Well Number	Date Sampled	Qtr.	Tritium pCi/l	Radium 226 pCi/l	Radium 228 pCi/l
7187	01/29/88	1	<210	NR	NR
7187	06/08/88	2	<200	NR	NR
7187	09/20/88	3	Data not yet received		
7187	12/06/88	4	<240	NR	NR
7187	12/06/88	4	<240	NR	NR
6687	01/29/88	1	<210	NR	NR
6687	06/14/88	2	<220	NR	NR
6687	09/16/88	3	<200	NR	NR
6687	12/07/88	4	<240	NR	NR
6587	01/27/88	1	<210	NR	NR
6587	06/14/88	2	<220	NR	NR
6587	09/23/88	3	Data not yet received		
6587	12/09/88	4	<220	NR	NR
6487	01/29/88	1	<210	NR	NR
6487	06/14/88	2	<220	NR	NR
6487	09/23/88	3	<200	NR	NR
6487	12/08/88	4	***		
7287	01/28/88	1	<210	NR	NR
7287	06/16/88	2	DRY		
7287	09/21/88	3	DRY		

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Landfill Alluvial

Well Number	Date Sampled	Qtr.	Gross Alpha pCi/l	Gross Beta pCi/l	Uranium 233, 234 pCi/l	Uranium 235 pCi/l
7287	12/15/88	4	DRY			
7087	02/03/88	1	DRY			
7087	06/16/88	2	21 ± 9	19 ± 8	10 ± 1	0.28 ± 0.08
7087	09/22/88	3	22 ± 13	20 ± 6	10 ± 1	0.2 ± 0.1
7087	12/14/88	4	14 ± 7	11 ± 3	10 ± 1	0.3 ± 0.1
0786	02/01/88	1	***			
0786	06/16/88	2	DRY			
0786	09/14/88	3	DRY			
0786	12/15/88	4	DRY			
4087	02/01/88	1	DRY			
4087	06/14/88	2	***			
4087	09/14/88	3	DRY			
4087	12/13/88	4	DRY			
4287	02/04/88	1	8 ± 5	5 ± 13	0.08 ± 0.11	0.02 ± 0.07
4287	06/16/88	2	DRY			
4287	09/21/88	3	DRY			
4287	12/12/88	4	DRY			
0686	02/01/88	1	***			
0686	06/14/88	2	DRY			

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Landfill Alluvial

Well Number	Date Sampled	Qtr.	Uranium 238 pCi/l	Strontium 89, 90 pCi/l	Plutonium 239, 240 pCi/l	Americium 241 pCi/l
7287	12/15/88	4	DRY			
7087	02/03/88	1	DRY			
7087	06/16/88	2	8.4 ± 0.9	NR	0.00 ± 0.04 0.18	0.00 ± 0.09 1.4
7087	09/22/88	3	8.5 ± 0.8	NR	0.00 ± 0.02	0.01 ± 0.01
7087	12/14/88	4	7.3 ± 0.7	NR	0.01 ± 0.02	0.01 ± 0.01
0786	02/01/88	1	***			
0786	06/16/88	2	DRY			
0786	09/14/88	3	DRY			
0786	12/15/88	4	DRY			
4087	02/01/88	1	DRY			
4087	06/14/88	2	***			
4087	09/14/88	3	DRY			
4087	12/13/88	4	DRY			
4287	02/04/88	1	0.00 ± 0.09	NR	0.02 ± 0.24	NR
4287	06/16/88	2	DRY			
4287	09/21/88	3	DRY			
4287	12/12/88	4	DRY			
0686	02/01/88	1	***			
0686	06/14/88	2	DRY			

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Landfill Alluvial

Well Number	Date Sampled	Qtr.	Tritium pCi/l	Radium 226 pCi/l	Radium 228 pCi/l
7287	12/15/88	4	DRY		
7087	02/03/88	1	DRY		
7087	06/16/88	2	<220	NR	NR
7087	09/22/88	3	<200	NR	NR
7087	12/14/88	4	<240	NR	NR
0786	02/01/88	1	***		
0786	06/16/88	2	DRY		
0786	09/14/88	3	DRY		
0786	12/15/88	4	DRY		
4087	02/01/88	1	DRY		
4087	06/14/88	2	***		
4087	09/14/88	3	DRY		
4087	12/13/88	4	DRY		
4287	02/04/88	1	<220	NR	NR
4287	06/16/88	2	DRY		
4287	09/21/88	3	DRY		
4287	12/12/88	4	DRY		
0686	02/01/88	1	***		
0686	06/14/88	2	DRY		

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Landfill Alluvial

Well Number	Date Sampled	Qtr.	Gross Alpha pCi/l	Gross Beta pCi/l		Uranium 233, 234 pCi/l	Uranium 235 pCi/l
0686	09/21/88	3	DRY				
0686	12/15/88	4	DRY				
0586	03/29/88	1	110 ± 35	54 ± 50	110	102 ± 8	3.4 ± 0.4
0586	06/01/88	2	***				
0586	10/04/88	4	DRY				
0586	12/23/88	4	DRY				

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Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Landfill Alluvial

Well Number	Date Sampled	Qtr.	Uranium 238 pCi/l	Strontium 89, 90 pCi/l	Plutonium 239, 240 pCi/l	Americium 241 pCi/l
0686	09/21/88	3	DRY			
0686	12/15/88	4	DRY			
0586	03/29/88	1	64 ± 6	NR	0.00 ± 1.5 5.1	0.00 ± 0.80 4.0
0586	06/01/88	2	***			
0586	10/04/88	4	DRY			
0586	12/23/88	4	DRY			

VALUE QUALIFIERS: NR = Analyte not reported *** = Insufficient Sample for Radiochemistry Analyses

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Landfill Alluvial

Well Number	Date Sampled	Qtr.	Tritium pCi/l	Radium 226 pCi/l	Radium 228 pCi/l
0686	09/21/88	3	DRY		
0686	12/15/88	4	DRY		
0586	03/29/88	1	<210	NR	NR
0586	06/01/88	2	***		
0586	10/04/88	4	DRY		
0586	12/23/88	4	DRY		

VALUE QUALIFIERS: NR = Analyte not reported *** = Insufficient Sample for Radiochemistry Analyses

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Landfill Bedrock

Well Number	Date Sampled	Qtr.	Gross Alpha pCi/l		Gross Beta pCi/l		Uranium 233, 234 pCi/l		Uranium 235 pCi/l	
0986	01/18/88	4	2 ± 5	9	-1 ± 11	22	3.0 ± 0.5		.06 ± .10	.23
0986	02/04/88	1	1 ± 5		-4 ± 11		1.1 ± 0.24		0.09 ± 0.07	
0986	06/06/88	2	11 ± 5		5 ± 7	17	0.80 ± 0.26	0.85	0.00 ± 0.03	0.10
0986	06/07/88	2	2 ± 5	12	6 ± 8	17	1.1 ± 0.3		0.00 ± 0.03	0.07
0986	09/20/88	3	0 ± 4		3 ± 3		0.8 ± 0.3		0.0 ± 0.1	
0986	12/16/88	4	3 ± 4		4 ± 3		1.1 ± 0.3		0.0 ± 0.1	
0886	02/04/88	1	3 ± 5		-7 ± 12		2.9 ± 0.63		0.08 ± 0.12	
0886	06/14/88	2	***							
0886	09/14/88	3	***							
0886	12/15/88	4	***							

VALUE QUALIFIERS: NR = Analyte not reported *** = Insufficient Sample for Radiochemistry Analyses

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Landfill Bedrock

Well Number	Date Sampled	Qtr.	Uranium 238 pCi/l		Strontium 89, 90 pCi/l	Plutonium 239, 240 pCi/l		Americium 241 pCi/l	
0986	01/18/88	4	.98 ± .28		<1.0	0.00 ± .14	.59	0.00 ± .12	.69
0986	02/04/88	1	0.24 ± 0.12		NR	0.0 ± 0.58		NR	
0986	06/06/88	2	0.17 ± 0.23	0.82	NR	0.00 ± 0.05	0.10	0.01 ± 0.10	0.66
0986	06/07/88	2	0.35 ± 0.24	0.57	NR	0.00 ± 0.04	0.10	0.00 ± 0.10	0.42
0986	09/20/88	3	0.2 ± 0.2		NR	0.00 ± 0.02		0.01 ± 0.01	
0986	12/16/88	4	0.2 ± 0.2		NR	0.01 ± 0.02		0.01 ± 0.01	
0886	02/04/88	1	0.90 ± 0.30		NR	0.0 ± 0.31		NR	
0886	06/14/88	2	***						
0886	09/14/88	3	***						
0886	12/15/88	4	***						

VALUE QUALIFIERS: NR = Analyte not reported *** = Insufficient Sample for Radiochemistry Analyses

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

Dissolved Radiochemistry Results

for Ground-Water Monitoring Wells

Landfill Bedrock

Well Number	Date Sampled	Qtr.	Tritium pCi/l	Radium 226 pCi/l	Radium 228 pCi/l
0986	01/18/88	4	<220	NR	NR
0986	02/04/88	1	<210	NR	NR
0986	06/06/88	2	<220	NR	NR
0986	06/07/88	2	<210	NR	NR
0986	09/20/88	3	<200	NR	NR
0986	12/16/88	4	<240	NR	NR
0886	02/04/88	1	<210	NR	NR
0886	06/14/88	2	***		
0886	09/14/88	3	***		
0886	12/15/88	4	***		

VALUE QUALIFIERS: NR = Analyte not reported *** = Insufficient Sample for Radiochemistry Analyses

DATA VALIDATION QUALFIERS: (No validation qualifier indicates data has not been validated.) R = Rejected; A = Acceptable with qualifications; V = Valid

ATTACHMENT 2

REVISED 1988 ANNUAL RCRA GROUND-WATER MONITORING REPORT TABLES

ANALYTE CONCENTRATIONS ABOVE BACKGROUND

RADIOCHEMISTRY AND DISSOLVED METALS

TABLE 8

SOLAR EVAPORATION PONDS ALLUVIAL GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

Solar Ponds Alluvial Wells

Well Number	Date Sampled	Qtr	Aluminum mg/l	Antimony mg/l	Arsenic mg/l	Barium mg/l	Beryllium mg/l	Cadmium mg/l	Calcium mg/l	Cesium mg/l	Chromium mg/l	Cobalt mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Lithium mg/l	Magnesium mg/l
Background Concentration			0.223	0.06U	0.01U	0.071	0.005U	0.005U	34	0.02U	0.026	0.022U	0.046	0.162	0.016	0.1U	6
Proposed Concentration Limit			5.0	0.06U	0.05	1.0	0.005U	0.01	NS	0.02U	0.05	0.022U	0.046	0.3	0.05	0.1U	NS
24-86	03/16/88	1	Dry														
	05/23/88	2	Dry														
	09/08/88	3	Dry														
	11/22/88	4	Dry														
56-87	03/16/88	1	Insufficient Sample for Metals Analysis														
	05/23/88	2	Insufficient Sample for Metals Analysis														
	09/08/88	3	Insufficient Sample for Metals Analysis														
	11/28/88	4	Dry														
22-86	03/16/88	1				0.092			63							1.3	9
	05/17/88	2				0.104			77					0.261			10
	09/09/88	3				0.127			64					0.918			10
	11/28/88	4	Dry														
26-86	03/16/88	1	Dry														
	05/17/88	2	Dry														
	09/06/88	3	Dry														
	11/22/88	4	Dry														
38-87	03/16/88	1	Dry														
	05/17/88	2	Dry														
	09/06/88	3	Dry														
	11/22/88	4	Dry														
33-86	03/07/88	1	Dry														
	05/02/88	2	Dry														
	08/12/88	3	Dry														
	11/08/88	4	Dry														

U = Analyzed but not detected above given value
blank = Not Detected in Sample or Present Below Concentration Limits
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TABLE 8 (cont.)

SOLAR EVAPORATION PONDS ALLUVIAL GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

Solar Ponds Alluvial Wells

Well Number	Date Sampled	Qtr	Manganese mg/l	Mercury mg/l	Molybdenum mg/l	Nickel mg/l	Potassium mg/l	Selenium mg/l	Silver mg/l	Sodium mg/l	Strontium mg/l	Thallium mg/l	Vanadium mg/l	Zinc mg/l
Background Concentration			0.066	0.0002U	0.022U	0.370	0.8	0.005U	0.083	13	0.15	0.01U	0.024U	0.164
Proposed Concentration Limit			0.066	0.002	0.1	0.370	NS	0.01	0.083	NS	NS	0.01U	0.024U	0.164
24-86	03/16/88	1	Dry											
	05/23/88	2	Dry											
	09/08/88	3	Dry											
	11/22/88	4	Dry											
56-87	03/16/88	1	Insufficient Sample for Metals Analysis											
	05/23/88	2	Insufficient Sample for Metals Analysis											
	09/08/88	3	Insufficient Sample for Metals Analysis											
	11/28/88	4	Dry											
22-86	03/16/88	1	0.193				2.2			87	0.37			
	05/17/88	2	0.231				6.5			76	0.43			
	09/09/88	3	0.285				6.7			85	0.49			
	11/28/88	4	Dry											
26-86	03/16/88	1	Dry											
	05/17/88	2	Dry											
	09/06/88	3	Dry											
	11/22/88	4	Dry											
38-87	03/16/88	1	Dry											
	05/17/88	2	Dry											
	09/06/88	3	Dry											
	11/22/88	4	Dry											
33-86	03/07/88	1	Dry											
	05/02/88	2	Dry											
	08/12/88	3	Dry											
	11/08/88	4	Dry											

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TABLE 8 (cont.)

SOLAR EVAPORATION PONDS ALLUVIAL GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

Solar Ponds Alluvial Wells

Well Number	Date Sampled	Qtr	Aluminum mg/l	Antimony mg/l	Arsenic mg/l	Barium mg/l	Beryllium mg/l	Cadmium mg/l	Calcium mg/l	Cesium mg/l	Chromium mg/l	Cobalt mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Lithium mg/l	Magnesium mg/l
Background Concentration			0.223	0.06U	0.01U	0.071	0.005U	0.005U	34	0.02U	0.026	0.022U	0.046	0.162	0.016	0.1U	6
Proposed Concentration Limit			5.0	0.06U	0.05	1.0	0.005U	0.01	NS	0.02U	0.05	0.022U	0.046	0.3	0.05	0.1U	NS
21-87	03/07/88	1	Insufficient Sample for Metals Analysis														
	05/02/88	2	Insufficient Sample for Metals Analysis														
	08/10/88	3	Insufficient Sample for Metals Analysis														
	11/08/88	4	Insufficient Sample for Metals Analysis														
35-86	03/02/88	1				0.082			143					0.689			29
	05/02/88	2							140					0.514			33
	08/10/88	3				0.082			145					0.315			32
	11/04/88	4				0.085			146					0.857		NR	31
36-86	03/07/88	1	Dry														
	05/02/88	2	Dry														
	08/11/88	3	Dry														
	11/08/88	4	Dry														
37-87	03/16/88	1	Insufficient Sample for Metals Analysis														
	05/17/88	2	Insufficient Sample for Metals Analysis														
	09/06/88	3	Dry														
	11/22/88	4	Dry														
04-60	03/16/88	1				0.080			67					0.233			27
	05/17/88	2				0.073			63								25
	09/07/88	3				0.091			75							NR	30
	09/07/88	3				0.092			75							NR	30
	12/02/88	4				0.088			92							NR	35
29-86	03/16/88	1	Dry														
	05/23/88	2	Dry														
	09/08/88	3	Dry														
	11/22/88	4	Dry														

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TABLE 8 (cont.)

SOLAR EVAPORATION PONDS ALLUVIAL GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

Solar Ponds Alluvial Wells

Well Number	Date Sampled	Qtr	Manganese mg/l	Mercury mg/l	Molybdenum mg/l	Nickel mg/l	Potassium mg/l	Selenium mg/l	Silver mg/l	Sodium mg/l	Strontium mg/l	Thallium mg/l	Vanadium mg/l	Zinc mg/l
Background Concentration			0.066	0.0002U	0.022U	0.370	0.8	0.005U	0.083	13	0.15	0.01U	0.024U	0.164
Proposed Concentration Limit			0.066	0.002	0.1	0.370	NS	0.01	0.083	NS	NS	0.01U	0.024U	0.164
21-87	03/07/88	1	Insufficient Sample for Metals Analysis											
	05/02/88	2	Insufficient Sample for Metals Analysis											
	08/10/88	3	Insufficient Sample for Metals Analysis											
	11/08/88	4	Insufficient Sample for Metals Analysis											
35-86	03/02/88	1	4.011							183	0.83			
	05/02/88	2	3.997							178	0.80			
	08/10/88	3	4.196							196	0.80			
	11/04/88	4	4.253							193	0.89			
36-86	03/07/88	1	Dry											
	05/02/88	2	Dry											
	08/11/88	3	Dry											
	11/08/88	4	Dry											
37-87	03/16/88	1	Insufficient Sample for Metals Analysis											
	05/17/88	2	Insufficient Sample for Metals Analysis											
	09/06/88	3	Dry											
	11/22/88	4	Dry											
04-60	03/16/88	1					77	0.005		93	0.79			0.358
	05/17/88	2					18.2			70	0.67			0.286
	09/07/88	3					25			105	0.93			0.369
	09/07/88	3					25			105	0.93			0.382
	12/02/88	4					5.3	0.007		116	1.06			0.478
29-86	03/16/88	1	Dry											
	05/23/88	2	Dry											
	09/08/88	3	Dry											
	11/22/88	4	Dry											

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TABLE 8 (cont.)

SOLAR EVAPORATION PONDS ALLUVIAL GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

Solar Ponds Alluvial Wells

Well Number	Date Sampled	Qtr	Aluminum mg/l	Antimony mg/l	Arsenic mg/l	Barium mg/l	Beryllium mg/l	Cadmium mg/l	Calcium mg/l	Cesium mg/l	Chromium mg/l	Cobalt mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Lithium mg/l	Magnesium mg/l
Background Concentration			0.223	0.06U	0.01U	0.071	0.005U	0.005U	34	0.02U	0.026	0.022U	0.046	0.162	0.016	0.1U	6
Proposed Concentration Limit			5.0	0.06U	0.05	1.0	0.005U	0.01	NS	0.02U	0.05	0.022U	0.046	0.3	0.05	0.1U	NS
28-86	03/16/88	1				0.166			479			0.050				1.4	151
	05/17/88	2	Insufficient Sample for Metals Analysis														
	09/07/88	3		0.11		0.184			297			0.022				NR	89
	11/22/88	4	Dry														
30-86	03/16/88	1				0.236			845							0.82	229
	05/23/88	2		0.177		0.192			937							NR	144
	09/15/88	3		0.438		0.265			1366							NR	367
	12/02/88	4		0.326		0.217			1126							NR	296
02-60	01/05/88	1			0.010	0.194			1269							0.5	312
	03/16/88	1				0.173			1186							0.37	338
	05/23/88	2		0.463		0.236			1591							NR	157
	09/09/88	3		0.628		0.217			1687		0.030			0.269		NR	553
	12/02/88	4		0.579		0.186			1697					0.193		NR	548
18-86	03/14/88	1	Dry														
	05/16/88	2	Dry														
	08/30/88	3	Dry														
	11/22/88	4	Dry														
17-86	03/14/88	1				0.388			826		0.028			0.180		0.27	253
	05/16/88	2		0.072		0.239			523							NR	126
	08/31/88	3		0.194		0.270			544							NR	172
	11/29/88	4	0.324	0.197		0.290			596					0.282		NR	171
15-86	03/14/88	1				0.436			301					0.368			72
	05/16/88	2				0.230			170							NR	43
	09/01/88	3				0.261			178		0.040			0.189		NR	42
	11/29/88	4				0.225			176							NR	40

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TABLE 8 (cont.)

SOLAR EVAPORATION PONDS ALLUVIAL GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

Solar Ponds Alluvial Wells

Well Number	Date Sampled	Qtr	Manganese mg/l	Mercury mg/l	Molybdenum mg/l	Nickel mg/l	Potassium mg/l	Selenium mg/l	Silver mg/l	Sodium mg/l	Strontium mg/l	Thallium mg/l	Vanadium mg/l	Zinc mg/l
Background Concentration			0.066	0.0002U	0.022U	0.370	0.8	0.05U	0.083	13	0.15	0.01U	0.024U	0.164
Proposed Concentration Limit			0.066	0.002	0.1	0.370	NS	0.01	0.083	NS	NS	0.01U	0.024U	0.164
28-86	03/16/88	1	1.242		0.047			0.005		1800	4.43			
	05/17/88	2	Insufficient Sample for Metals Analysis											
	09/07/88	3	0.690		0.068		435			1411	2.91			
	11/22/88	4	Dry											
30-86	03/16/88	1					146	0.005		1263	7.75			
	05/23/88	2					159			1080	8.12			
	09/15/88	3								1268	14.62			
	12/02/88	4					42			1166	11.28			
02-60	03/16/88	1	0.145					0.39		880	14.03			3.767
	05/23/88	2	0.126				64	0.06		1043	17.66			3.906
	09/09/88	3	0.239				75	0.21		1173	22.56			4.837
	12/02/88	4	0.168				48			1155	21.28			3.891
18-86	03/14/88	1	Dry											
	05/16/88	2	Dry											
	08/30/88	3	Dry											
	11/22/88	4	Dry											
17-86	03/14/88	1					4.3	0.29		369	7.65			
	05/16/88	2					4.2	0.184		250	4.57			
	08/31/88	3					5.2	0.32		260	4.71			
	11/29/88	4					3.6	0.179		289	5.82			
15-86	03/14/88	1					2.1	0.039		187	2.34			
	05/16/88	2					1.6	0.023		104	1.22			
	09/01/88	3					2.0	0.027		103	1.25			
	11/29/88	4					1.4	0.027		105	1.40			

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TABLE 8 (cont.)

SOLAR EVAPORATION PONDS ALLUVIAL GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

Solar Ponds Alluvial Wells

Well Number	Date Sampled	Qtr	Aluminum mg/l	Antimony mg/l	Arsenic mg/l	Barium mg/l	Beryllium mg/l	Cadmium mg/l	Calcium mg/l	Cesium mg/l	Chromium mg/l	Cobalt mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Lithium mg/l	Magnesium mg/l
Background Concentration			0.223	0.06U	0.01U	0.071	0.005U	0.005U	34	0.02U	0.026	0.022U	0.046	0.162	0.016	0.1U	6
Proposed Concentration Limit			5.0	0.06U	0.05	1.0	0.005U	0.01	NS	0.02U	0.05	0.022U	0.046	0.3	0.05	0.1U	NS
13-86	03/14/88	1	Insufficient Sample for Metals Analysis														
	05/16/88	2	Insufficient Sample for Metals Analysis														
	08/31/88	3	Insufficient Sample for Metals Analysis														
	11/30/88	4	Insufficient Sample for Metals Analysis														
20-86	03/16/88	1	Dry														
	05/23/88	2	Dry														
	09/06/88	3	Dry														
	11/22/88	4	Dry														

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TABLE 8 (cont.)

SOLAR EVAPORATION PONDS ALLUVIAL GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

Solar Ponds Alluvial Wells

Well Number	Date Sampled	Qtr	Manganese mg/l	Mercury mg/l	Molybdenum mg/l	Nickel mg/l	Potassium mg/l	Selenium mg/l	Silver mg/l	Sodium mg/l	Strontium mg/l	Thallium mg/l	Vanadium mg/l	Zinc mg/l
Background Concentration			0.066	0.0002U	0.022U	0.370	0.8	0.005U	0.083	13	0.15	0.01U	0.024U	0.164
Proposed Concentration Limit			0.066	0.002	0.1	0.370	NS	0.01	0.083	NS	NS	0.01U	0.024U	0.164
13-86	03/14/88	1	Insufficient Sample for Metals Analysis											
	05/16/88	2	Insufficient Sample for Metals Analysis											
	08/31/88	3	Insufficient Sample for Metals Analysis											
	11/30/88	4	Insufficient Sample for Metals Analysis											
20-86	03/16/88	1	Dry											
	05/23/88	2	Dry											
	09/06/88	3	Dry											
	11/22/88	4	Dry											

U = Analyzed but not detected above given value
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TABLE 9

SOLAR EVAPORATION PONDS ALLUVIAL GROUND WATER
DISSOLVED RADIONUCLIDE CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTERS 1988

Solar Evaporation Ponds Alluvial Wells

Well Number	Date Sampled	Qtr	Gross Alpha pCi/l	Gross Beta pCi/l	Total Uranium pCi/l	Plutonium 239,240 pCi/l	Americium pCi/l	Tritium pCi/l
Background Concentration			<MDA (34)	<MDA (75)	<MDA (1.3)	<MDA (0.3)	<MDA (1.6)	<593
Proposed Concentration Limit			15	50	40	40	4	20,000
24-86	03/16/88	1	Dry					
	05/23/88	2	Dry					
	09/08/88	3	Dry					
	11/22/88	4	Dry					
56-87	03/16/88	1	Insufficient Sample for Radiochemical Analysis					
	05/23/88	2	Insufficient Sample for Radiochemical Analysis					
	09/14/88	3	Insufficient Sample for Radiochemical Analysis					
	11/28/88	4	Dry					
22-86	03/16/88	1			9.5			
	05/17/88	2			8.1			
	09/09/88	3			14.8			
	11/28/88	4	Dry					
26-86	03/16/88	1	Dry					
	05/17/88	2	Dry					
	09/06/88	3	Dry					
	11/22/88	4	Dry					
38-87	03/16/88	1	Dry					
	05/17/88	2	Dry					
	09/06/88	3	Dry					
	11/22/88	4	Dry					
33-86	03/07/88	1	Dry					
	05/02/88	2	Dry					
	08/12/88	3	Dry					
	11/08/88	4	Dry					

Blank = Not Detected in Sample or Concentration Below Background Level

TABLE 9 (cont.)

SOLAR EVAPORATION PONDS ALLUVIAL GROUND WATER
DISSOLVED RADIONUCLIDE CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTERS 1988

Solar Evaporation Ponds Alluvial Wells

Well Number	Date Sampled	Qtr	Gross Alpha pCi/l	Gross Beta pCi/l	Total Uranium pCi/l	Plutonium 239,240 pCi/l	Americium pCi/l	Tritium pCi/l
Background Concentration			<MDA (34)	<MDA (75)	<MDA (1.3)	<MDA (0.3)	<MDA (1.6)	<593
Proposed Concentration Limit			15	50	40	40	4	20,000
21-87	03/07/88	1	Insufficient Sample for Radiochemical Analysis					
	05/02/88	2	Insufficient Sample for Radiochemical Analysis					
	08/10/88	3	Insufficient Sample for Radiochemical Analysis					
	11/08/88	4	Insufficient Sample for Radiochemical Analysis					
35-86	03/02/88	1						
	05/02/88	2						
	08/10/88	3			3.93			
	11/04/88	4	NR	NR	4.18			
36-86	03/07/88	1	Dry					
	05/02/88	2	Dry					
	08/11/88	3	Dry					
	11/08/88	4	Dry					
37-87	03/16/88	1	Insufficient Sample for Radiochemical Analysis					
	05/17/88	2	Insufficient Sample for Radiochemical Analysis					
	09/06/88	3	Dry					
	11/22/88	4	Dry					
04-60	03/16/88	1			28.4			1100 ± 100
	05/17/88	2			27.1			
	09/07/88	3	39 ± 17		23.8			1300 ± 100
	12/06/88	4			27.5			1300 ± 100
29-86	03/16/88	1	Dry					
	05/23/88	2	Dry					
	09/08/88	3	Dry					
	11/22/88	4	Dry					

Blank = Not Detected in Sample or Concentration Below Background Level

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TABLE 9 (cont.)

SOLAR EVAPORATION PONDS ALLUVIAL GROUND WATER
DISSOLVED RADIONUCLIDE CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTERS 1988

Solar Evaporation Ponds Alluvial Wells

Well Number	Date Sampled	Qtr	Gross Alpha pCi/l	Gross Beta pCi/l	Total Uranium pCi/l	Plutonium 239,240 pCi/l	Americium pCi/l	Tritium pCi/l
Background Concentration			<MDA (34)	<MDA (75)	<MDA (1.3)	<MDA (0.3)	<MDA (1.6)	<593
Proposed Concentration Limit			15	50	40	40	4	20,000
28-86	03/16/88	1			235			9000 ± 300
	05/17/88	2	Insufficient Sample for Radiochemical Analysis					
	09/07/88	3	720 ± 170	940 ± 80	428			5900 ± 200
	11/22/88	4	Dry					
30-86	03/16/88	1	320 ± 60	250 ± 40	Not reported		Not reported	6300 ± 200
	05/23/88	2	390 ± 60	290 ± 40	357.8			6100 ± 200
	09/15/88	3	220 ± 170	130 ± 60	165	0.58±0.29		8100 ± 300
	12/06/88	4	120 ± 110	110 ± 60	189			5900 ± 200
02-60	03/16/88	1			9.1			710 ± 110
	05/23/88	2		110 ± 30	22.8			830 ± 100
	09/09/88	3		92 ± 76	19.0			700 ± 110
	12/06/88	4			19.6			
18-86	03/14/88	1	Dry					
	05/16/88	2	Dry					
	08/30/88	3	Dry					
	11/22/88	4	Dry					
17-86	03/14/88	1			44.2			700 ± 100
	05/16/88	2			53.9			
	08/31/88	3			41.5			840 ± 110
	11/29/88	4	110 ± 70		53.1			960 ± 120
15-86	03/14/88	1			29.7			
	05/16/88	2			28.5			
	09/01/88	3			30.6			
	11/29/88	4			32.5			

Blank = Not Detected in Sample or Concentration Below Background Level

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TABLE 9 (cont.)

SOLAR EVAPORATION PONDS ALLUVIAL GROUND WATER
DISSOLVED RADIONUCLIDE CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTERS 1988

Solar Evaporation Ponds Alluvial Wells

Well Number	Date Sampled	Qtr	Gross Alpha pCi/l	Gross Beta pCi/l	Total Uranium pCi/l	Plutonium 239,240 pCi/l	Americium pCi/l	Tritium pCi/l
Background Concentration			<MDA (34)	<MDA (75)	<MDA (1.3)	<MDA (0.3)	<MDA (1.6)	<593
Proposed Concentration Limit			15	50	40	40	4	20,000
13-86	03/14/88	1	Insufficient Sample for Radiochemical Analysis					
	05/16/88	2	Insufficient Sample for Radiochemical Analysis					
	08/31/88	3	Insufficient Sample for Radiochemical Analysis					
	11/30/88	4	Insufficient Sample for Radiochemical Analysis					
20-86	03/16/88	1	Dry					
	05/23/88	2	Dry					
	09/06/88	3	Dry					
	11/22/88	4	Dry					

Blank = Not Detected in Sample or Concentration Below Background Level

TABLE 12

SOLAR EVAPORATION PONDS BEDROCK GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

Solar Ponds Bedrock Wells

Well Number	Date Sampled	Qtr	Aluminum mg/l	Antimony mg/l	Arsenic mg/l	Barium mg/l	Beryllium mg/l	Cadmium mg/l	Calcium mg/l	Cesium mg/l	Chromium mg/l	Cobalt mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Lithium mg/l	Magnesium mg/l
Background Concentration			0.038	0.06U	0.01U	0.106	0.005U	0.005U	110	0.02U	0.033	0.022U	0.048	0.161	0.019	0.1U	25
Proposed Concentration Limit			5.0	0.06U	0.05	1.0	0.005U	0.01	NS	0.02U	0.05	0.022U	0.048	0.3	0.05	0.1U	NS
23-86	03/21/88	1															26
	05/23/88	2	0.077														
	09/08/88	3	Insufficient Sample for Metals Analysis														
	11/30/88	4	Insufficient Sample for Metals Analysis														
25-86	03/21/88	1	0.044						206							0.18	85
	05/18/88	2	0.624						195							NR	96
	09/13/88	3		0.118					240							NR	94
	09/13/88	3		0.129					210							NR	95
	12/06/88	4	0.086	0.108					249							NR	92
22-87	03/07/88	1	0.040														
	05/02/88	2														NR	
	08/10/88	3														NR	
	11/09/88	4	0.047							NR					NR	NR	
34-86	03/02/88	1	0.172			0.121											
	05/02/88	2							207					1.549		NR	92
	08/10/88	3		0.105					222					1.595		NR	70
	11/04/88	4		0.072	NR				233	NR				2.181		NR	68
27-86	03/21/88	1															
	05/18/88	2											0.112			NR	
	09/13/88	3											0.0990			NR	
	12/06/88	4	0.068													NR	
39-87	03/16/88	1															
	05/23/88	2	0.042													NR	
	09/08/88	3	Insufficient Sample for Metals Analysis														
	11/30/88	4	Insufficient Sample for Metals Analysis														

U = Analyzed but not detected above given value
blank = Not Detected in Sample or Present Below Concentration Limits
NR = Analyte not reported
NS = No Standard

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TABLE 12 (cont.)

SOLAR EVAPORATION PONDS BEDROCK GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

Solar Ponds Bedrock Wells

Well Number	Date Sampled	Qtr	Manganese mg/l	Mercury mg/l	Molybdenum mg/l	Nickel mg/l	Potassium mg/l	Selenium mg/l	Silver mg/l	Sodium mg/l	Strontium mg/l	Thallium mg/l	Vanadium mg/l	Zinc mg/l
Background Concentration			0.228	0.0002U	0.022U	0.054	5.2	0.005U	0.008	36	0.87	0.01U	0.024U	0.098
Proposed Concentration Limit			0.228	0.002	0.1	0.2	NS	0.01	0.005	NS	NS	0.01U	0.024U	0.098
23-86	03/21/88	1			0.030		11			180	1.28	0.18		
	05/23/88	2					13.2			158	1.07			
	09/08/88	3	Insufficient Sample for Metals Analysis											
	11/30/88	4	Insufficient Sample for Metals Analysis											
25-86	03/21/88	1					15			259	3.04			
	05/18/88	2					12.4			227	2.51			
	09/13/88	3					15			295				
	09/13/88	3					15			295	3.57			
	12/06/88	4					9.9			295	3.38			0.105
22-87	03/07/88	1			0.084		14			88				
	05/02/88	2			0.076		13.3			100				
	08/10/88	3			0.065		15			126				
	11/09/88	4		NR	0.058		9.2			135		NR		
34-86	03/02/88	1			0.050					76				
	05/02/88	2					8.9			232	2.84			
	08/10/88	3					8.7			223	2.66			
	11/04/88	4					7.5	NR		224	3.11	NR		
27-86	03/21/88	1								201				
	05/18/88	2								209				
	09/13/88	3					6.1			210				
	12/06/88	4			0.028	0.056				216				
39-87	03/16/88	1								196				
	05/23/88	2			0.058		11.4			196				
	09/08/88	3	Insufficient Sample for Metals Analysis											
	11/30/88	4	Insufficient Sample for Metals Analysis											

U = Analyzed but not detected above given value
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NR = Analyte not reported
NS = No Standard

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TABLE 12 (cont.)

SOLAR EVAPORATION PONDS BEDROCK GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

Solar Ponds Bedrock Wells

Well Number	Date Sampled	Qtr	Aluminum mg/l	Antimony mg/l	Arsenic mg/l	Barium mg/l	Beryllium mg/l	Cadmium mg/l	Calcium mg/l	Cesium mg/l	Chromium mg/l	Cobalt mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Lithium mg/l	Magnesium mg/l
Background Concentration			0.038	0.06U	0.01U	0.106	0.005U	0.005U	110	0.02U	0.033	0.022U	0.048	0.161	0.019	0.1U	25
Prior Concentration Limit			5.0	0.06U	0.05	1.0	0.005U	0.01	NS	0.02U	0.05	0.022U	0.048	0.3	0.05	0.1U	NS
31-86	03/16/88	1	Dry														
	05/18/88	2	Dry														
	09/13/88	3	Dry														
	11/22/88	4	Dry														
32-86	03/21/88	1	0.056			0.115											
	05/18/88	2														NR	
	09/13/88	3				0.115										NR	
	12/02/88	4	0.058													NR	
16-86	03/14/88	1	0.121						421		0.045		0.051	0.209			130
	05/16/88	2							145							NR	49
	08/31/88	3		0.065					145							NR	44
	08/31/88	3		0.075					146							NR	46
	11/29/88	4	0.057						150							NR	44
14-86	03/14/88	1	0.060						154								47
	05/16/88	2							134							NR	43
	08/31/88	3	0.045						136							NR	40
	11/29/88	4							143							NR	41
	11/29/88	4							140							NR	42

U = Analyzed but not detected above given value
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NR = Analyte not reported
NS = No Standard

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TABLE 12 (cont.)

SOLAR EVAPORATION PONDS BEDROCK GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

Solar Ponds Bedrock Wells

Well Number	Date Sampled	Qtr	Manganese mg/l	Mercury mg/l	Molybdenum mg/l	Nickel mg/l	Potassium mg/l	Selenium mg/l	Silver mg/l	Sodium mg/l	Strontium mg/l	Thallium mg/l	Vanadium mg/l	Zinc mg/l
Background Concentration			0.228	0.0002U	0.22U	0.054	5.2	0.005U	0.008	36	0.87	0.01U	0.024U	0.098
Proposed Concentration Limit			0.228	0.002	0.1	0.2	NS	0.01	0.005	NS	NS	0.01U	0.024U	0.098
31-86	03/16/88	1	Dry											
	05/18/88	2	Dry											
	09/13/88	3	Dry											
	11/22/88	4	Dry											
32-86	03/21/88	1					5.4			121				0.273
	05/18/88	2					5.7			117				
	09/13/88	3			0.023		5.6			127				
	12/02/88	4								134				0.099
16-86	03/14/88	1					9.9			706	6.167			0.114
	05/16/88	2					6.9			253	1.964			
	08/31/88	3					7.5		0.012	262	1.880			
	08/31/88	3					7.5			263	1.901			
	11/29/88	4					5.4			269	2.206			
14-86	03/14/88	1					5.3			266	2.422			
	05/16/88	2					6.4			223	1.925			
	08/31/88	3					6.8		0.111	231	1.861			
	11/29/88	4					5.4			240	2.226			
	11/29/88	4					5.6			245	2.220			

U = Analyzed but not detected above given value
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NR = Analyte not reported
NS = No Standard

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TABLE 13

SOLAR EVAPORATION PONDS BEDROCK GROUND WATER
DISSOLVED RADIONUCLIDE CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTERS 1988

Solar Evaporation Ponds Bedrock Wells

Well Number	Date Sampled	Qtr	Gross Alpha pCi/l	Gross Beta pCi/l	Total Uranium pCi/l	Plutonium 239,240 pCi/l	Americium pCi/l	Tritium pCi/l
Background Concentration			<MDA (40)	<MDA (76)	2.42	<MDA (.64)	<MDA (4.6)	<593
Proposed Concentration Limit			15	50	40	40	4	20,000
23-86	03/21/88	1			4.0			
	05/23/88	2			4.8			
	09/08/88	3	Insufficient Sample for Radiochemical Analysis					
	11/30/88	4	Insufficient Sample for Radiochemical Analysis					
25-86	03/21/88	1			5.7			
	05/18/88	2			6.1			
	09/13/88	3			6.1			
	12/06/88	4			5.6			
22-87	03/07/88	1			4.6			
	05/02/88	2			2.9			
	08/10/88	3			4.2			
	11/09/88	4	Data not yet received					
34-86	03/03/88	1						
	05/02/88	2						
	08/10/88	3						
	11/04/88	4	Data not yet received					
27-86	03/21/88	1			NR			
	05/08/88	2						
	09/12/88	3			NR	NR	NR	
	12/06/88	4						
39-87	03/16/88	1						
	05/23/88	2			5.0			
	09/08/88	3	Insufficient Sample for Radiochemical Analysis					
	11/30/88	4	Insufficient Sample for Radiochemical Analysis					

Blank = Not Detected in Sample or Concentration Below Background Level
NR = Not Reported

TABLE 13 (cont.)

SOLAR EVAPORATION PONDS BEDROCK GROUND WATER
DISSOLVED RADIONUCLIDE CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTERS 1988

Solar Evaporation Ponds Bedrock Wells

Well Number	Date Sampled	Qtr	Gross Alpha pCi/l	Gross Beta pCi/l	Total Uranium pCi/l	Plutonium 239,240 pCi/l	Americium pCi/l	Tritium pCi/l
Background Concentration			<MDA (40)	<MDA (76)	2.42	<MDA (.64)	<MDA (4.6)	<593
Proposed Concentration Limit			15	50	40	40	4	20,000
31-86	03/16/88	1	Dry					
	05/18/88	2	Dry					
	09/13/88	3	Dry					
	11/22/88	4	Dry					
32-86	03/21/88	1						
	05/19/88	2						
	09/13/88	3						
	12/06/88	4						
16-86	03/14/88	1						
	05/17/88	2						
	08/31/88	3						
	11/29/88	4				NR		
14-86	03/14/88	1						
	05/17/88	2						
	08/31/88	3						
	11/29/88	4				NR		

Blank = Not Detected in Sample or concentration Below Background Level
NR = Not Reported

TABLE 20

WEST SPRAY FIELD ALLUVIAL GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

West Spray Field Alluvial Wells

Well Number	Date Sampled	Qtr	Aluminum mg/l	Antimony mg/l	Arsenic mg/l	Barium mg/l	Beryllium mg/l	Cadmium mg/l	Calcium mg/l	Cesium mg/l	Chromium mg/l	Cobalt mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Lithium mg/l	Magnesium mg/l
Background Concentration			0.223	0.06U	0.01U	0.07	0.005U	0.005U	34	0.02U	0.026	0.022U	0.046	0.162	0.016	0.1U	6
Proposed Concentration Limit			5	0.06U	0.05	1.0	<0.005	0.01	NS	<0.02	0.05	<0.022	0.046	0.3	0.05	0.1U	NS
10-81	02/04/88	1				0.09											
	04/07/88	2				0.09								0.30			
	07/07/88	3												0.22			
	10/12/88	4														NR	
07-82	02/04/88	1	Insufficient Sample for Metals Analysis														
	04/07/88	2	Insufficient Sample for Metals Analysis														
	07/07/88	3	Insufficient Sample for Metals Analysis														
	10/11/88	4	Insufficient Sample for Metals Analysis														
51-86	02/08/88	1				0.10											
	04/25/88	2				0.08								0.26			
	07/07/88	3															
	10/14/88	4				0.07										NR	
50-86	03/25/88	1															
	05/31/88	2				0.07											
	10/04/88	3				0.10											
	12/20/88	4				0.09										NR	
49-86	03/29/88	1				0.09											
	05/31/88	2				0.08											
	09/30/88	3				0.12											
	12/20/88	4				0.11								0.34		NR	
05-82	03/24/88	1				0.11								0.18			
	05/25/88	2	3.99			0.12								2.70			
	09/27/88	3				0.09											
	12/20/88	4				0.07										NR	

U = Analyzed but not detected above given value
blank = Not Detected in Sample or Present Below Concentrations Limits
NR = Analyte not reported
NS = No Standard

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TABLE 20 (cont.)

WEST SPRAY FIELD ALLUVIAL GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

West Spray Field Alluvial Wells

Well Number	Date Sampled	Qtr	Aluminum mg/l	Antimony mg/l	Arsenic mg/l	Barium mg/l	Beryllium mg/l	Cadmium mg/l	Calcium mg/l	Cesium mg/l	Chromium mg/l	Cobalt mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Lithium mg/l	Magnesium mg/l
Background Concentration			0.223	0.06U	0.01U	0.07	0.005U	0.005U	34	0.02U	0.026	0.022U	0.046	0.162	0.016	0.1U	6
Proposed Concentration Limit			5	0.06U	0.05	1.0	<0.005	0.01	NS	<0.02	0.05	<0.022	0.046	0.3	0.05	0.1U	NS
06-82	03/24/88	1				0.08											
	05/25/88	2	2.77			0.14								1.49			
	09/27/88	3				0.84											
	12/19/88	4	Insufficient Sample for Metals Analysis														

U = Analyzed but not detected above given value
blank = Not Detected in Sample or Present Below Concentrations Limits
NR = Analyte not reported
NS = No Standard

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TABLE 20 (cont.)

WEST SPRAY FIELD ALLUVIAL GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

West Spray Field Alluvial Wells

Well Number	Date Sampled	Qtr	Manganese mg/l	Mercury mg/l	Molybdenum mg/l	Nickel mg/l	Potassium mg/l	Selenium mg/l	Silver mg/l	Sodium mg/l	Strontium mg/l	Thallium mg/l	Vanadium mg/l	Zinc mg/l
Background Concentration			0.066	0.0002U	0.022U	0.37	0.8	0.005U	0.083	13	0.15	0.01U	0.024U	0.164
Proposed Concentration Limit			0.066	0.002	0.1	0.37	NS	0.01	0.083	NS	NS	<0.01	<0.024	0.164
10-81	02/04/88	1												
	04/07/88	2												
	07/07/88	3												
	10/12/88	4												
07-82	02/04/88	1	Insufficient Sample for Metals Analysis											
	04/07/88	2	Insufficient Sample for Metals Analysis											
	07/07/88	3	Insufficient Sample for Metals Analysis											
	10/11/88	4	Insufficient Sample for Metals Analysis											
51-86	02/04/88	1												
	04/25/88	2												0.168
	07/07/88	3												
	10/14/88	4												
50-86	03/25/88	1									0.18			
	05/31/88	2									0.17			
	10/04/88	3									0.20			
	12/20/88	4									0.18			
49-86	03/29/88	1								26				
	05/31/88	2								29				
	09/30/88	3								22				
	12/20/88	4								22				
05-82	03/24/88	1					1.3			14				1.840
	05/25/88	2								19				
	09/27/88	3								23	0.19			0.411
	12/20/88	4								26	0.16			

U = Analyzed but not detected above given value
blank = Not Detected in Sample or Present Below Concentrations Limits
NR = Analyte not reported
NS = No Standard

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TABLE 20 (cont.)

WEST SPRAY FIELD ALLUVIAL GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

West Spray Field Alluvial Wells

Well Number	Date Sampled	Qtr	Manganese mg/l	Mercury mg/l	Molybdenum mg/l	Nickel mg/l	Potassium mg/l	Selenium mg/l	Silver mg/l	Sodium mg/l	Strontium mg/l	Thallium mg/l	Vanadium mg/l	Zinc mg/l
Background Concentration			0.066	0.0002U	0.022U	0.37	0.8	0.005U	0.083	13	0.15	0.01U	0.024U	0.164
Proposed Concentration Limit			0.066	0.002	0.1	0.37	NS	0.01	0.083	NS	NS	<0.01	<0.024	0.164
06-82	03/24/88	1					1.1							
	05/25/88	2				0.042								
	09/27/88	3												
	12/19/88	4	Insufficient Sample for Metals Analysis											

U = Analyzed but not detected above given value
blank = Not Detected in Sample or Present Below Concentrations Limits
NR = Analyte not reported
NS = No Standard

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TABLE 20 (cont.)

WEST SPRAY FIELD ALLUVIAL GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

West Spray Field Alluvial Wells

Well Number	Date Sampled	Qtr	Aluminum mg/l	Antimony mg/l	Arsenic mg/l	Barium mg/l	Beryllium mg/l	Cadmium mg/l	Calcium mg/l	Cesium mg/l	Chromium mg/l	Cobalt mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Lithium mg/l	Magnesium mg/l
Background Concentration			0.223	0.06U	0.01U	0.07	0.005U	0.005U	34	0.02U	0.026	0.022U	0.046	0.162	0.016	0.01U	6
Proposed Concentration Limit			5	0.06U	0.05	1.0	<0.005	0.01	NS	<0.020	0.05	<0.022	0.046	0.3	0.05	0.01U	NS
47-86	02/08/88	1															
	04/25/88	2															
	07/11/88	3															
	10/14/88	4														NR	
45-86	03/25/88	1												0.30			
	05/26/88	2	2.09								0.011			1.04			
	09/29/88	3	1.54			0.13								0.997	1.00		
	12/16/88	4	0.29			0.14								0.34		NR	
08-81	03/24/88	1				0.09											9
	05/25/88	2		0.291		0.10			36								9
	10/04/88	3				0.10			40								9
	12/22/88	4				0.10			40							NR	9
09-81	03/24/88	1						42									
	05/25/88	2	0.58	0.428					47								
	09/27/88	3						47									
	12/22/88	4			0.01				53.3							NR	
03-82	03/29/88	1															
	05/25/88	2	0.83											0.68			
	09/29/88	3				0.11											
	12/19/88	4	Insufficient Sample for Metals Analysis														
56-86	02/15/88	1	0.400			0.12											
	04/07/88	2				0.67											
	09/14/88	3	Insufficient Sample for Metals Analysis														
	10/20/88	4				0.10								0.07		NR	

U = Analyzed but not detected above given value
blank = Not Detected in Sample or Present Below Concentrations Limits
NR = Analyte not reported
NS = No Standard

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TABLE 20 (cont.)

WEST SPRAY FIELD ALLUVIAL GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

West Spray Field Alluvial Wells

Well Number	Date Sampled	Qtr	Manganese mg/l	Mercury mg/l	Molybdenum mg/l	Nickel mg/l	Potassium mg/l	Selenium mg/l	Silver mg/l	Sodium mg/l	Strontium mg/l	Thallium mg/l	Vanadium mg/l	Zinc mg/l
Background Concentration			0.066	0.0002	0.022U	0.37	0.8	0.005U	0.083	13	0.15	0.01U	0.024U	0.164
Proposed Concentration Limit			0.06	0.002	0.1	0.37	NS	0.01	0.083	NS	NS	<0.01	<0.024	0.164
47-86	02/08/88	1												
	04/25/88	2												
	07/11/88	3												
	10/14/88	4												
45-86	03/25/88	1												
	05/26/88	2												
	09/29/88	3					1.1			18	0.48			
	12/16/88	4								16				
08-81	03/24/88	1					1.6			17	0.31			
	05/25/88	2					1.7							
	10/04/88	3					1.9			19	0.34			
	12/22/88	4					1.6			18	0.34			
09-81	03/24/88	1					1.5			19	0.43			
	05/25/88	2					1.8			22				
	09/27/88	3					1.5			23				
	12/22/88	4					1.8			23	0.50			
03-82	03/29/88	1					0.9							
	05/25/88	2					2.5							
	09/29/88	3					1.5							
	12/19/88	4	Insufficient Sample for Metals Analysis											
56-86	02/15/88	1					1.7			24	0.16			
	04/07/88	2					1.0			21				
	09/14/88	3	Insufficient Sample for Metals Analysis											
	10/20/88	4		NR			1.8			17	0.15			

U = Analyzed but not detected above given value
blank = Not Detected in Sample or Present Below Concentrations Limits
NR = Analyte not reported
NS = No Standard

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TABLE 21

WEST SPRAY FIELD ALLUVIAL GROUND WATER
DISSOLVED RADIONUCLIDE CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTERS 1988

West Spray Field Alluvial Wells

Well Number	Date Sampled	Qtr	Gross Alpha pCi/l	Gross Beta pCi/l	Total Uranium pCi/l	Plutonium 239,240 pCi/l	Americium pCi/l	Tritium pCi/l
Background Concentration			<MDA (34)	<MDA (26)	<MDA (.3)	<MDA (1.6)	<MDA (4.6)	<593
Proposed Concentration Limit			15	50	40	40	4	20,000
10-81	02/04/88	1						
	04/07/88	2						
	07/07/88	3						
	10/12/88	4			.31			
07-82	02/04/88	1	Insufficient Sample for Radiochemical Analysis					
	04/07/88	2	Insufficient Sample for Radiochemical Analysis					
	07/07/88	3	Insufficient Sample for Radiochemical Analysis					
	10/11/88	4	Insufficient Sample for Radiochemical Analysis					
51-86	02/08/88	1					NR	
	04/25/88	2						
	07/07/88	3						
	10/14/88	4						
50-86	03/25/88	1					NR	
	05/31/88	2			0.4			
	10/04/88	3			1.0			
	12/20/88	4			1.3			
49-86	03/29/88	1						
	05/31/88	2						
	09/30/88	3			NR			
	12/20/88	4						
05-82	03/24/88	1					NR	
	05/25/88	2						
	09/27/88	3			8.9			
	12/20/88	4	NR	NR	NR	NR	NR	

Blank = Not Detected in Sample or Concentration Below Background Level
NR = Not Reported

TABLE 21 (cont.)

WEST SPRAY FIELD ALLUVIAL GROUND WATER
DISSOLVED RADIONUCLIDE CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTERS 1988

West Spray Field Alluvial Wells

Well Number	Date Sampled	Qtr	Gross Alpha pCi/l	Gross Beta pCi/l	Total Uranium pCi/l	Plutonium 239,240 pCi/l	Americium pCi/l	Tritium pCi/l
Background Concentration			<MDA (34)	<MDA (26)	<MDA (.3)	<MDA (1.6)	<MDA (4.6)	<593
Proposed Concentration Limit			15	50	40	40	4	20,000
06-82	03/24/88	1						NR
	05/25/88	2						
	09/27/88	3						
	12/19/88	4	Insufficient Sample for Radiochemical Analysis					
47-86	02/08/88	1						NR
	04/25/88	2						
	07/11/88	3			.33			
	10/14/88	4			.50			
45-86	03/25/88	1						NR
	05/26/88	2						
	09/29/88	3			1.5			
	12/16/88	4						
08-81	03/24/88	1			5.5			NR
	05/25/88	2			5.3			
	10/04/88	3			6.9			
	12/22/88	4			4.1			
09-81	03/24/88	1						NR
	05/25/88	2			1.3			NR
	09/27/88	3			1.4			
	12/22/88	4			1.7			
03-82	03/29/88	1			12.7			
	05/25/88	2						
	09/29/88	3			0.6			
	12/19/88	4	Insufficient Sample for Radiochemical Analysis					

Blank = Not Detected in Sample or Concentration Below Background Level
NR = Not Reported

TABLE 21 (cont.)

WEST SPRAY FIELD ALLUVIAL GROUND WATER
DISSOLVED RADIONUCLIDE CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTERS 1988

West Spray Field Alluvial Wells

Well Number	Date Sampled	Qtr	Gross Alpha pCi/l	Gross Beta pCi/l	Total Uranium pCi/l	Plutonium 239,240 pCi/l	Americium pCi/l	Tritium pCi/l
Background Concentration			<MDA (34)	<MDA (26)	<MDA (.3)	<MDA (1.6)	<MDA (4.6)	<593
Proposed Concentration Limit			15	50	40	40	4	20,000
56-86	02/15/88	1						
	04/07/88	2						
	09/14/88	3	Insufficient Sample for Radionuclide Analysis					
	10/20/88	4						

Blank = Not Detected in Sample or Concentration Below Background Level
NR = Not Reported

TABLE 29

PRESENT LANDFILL ALLUVIAL GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

Present Landfill Alluvial Wells

Well Number	Date Sampled	Qtr	Aluminum mg/l	Antimony mg/l	Arsenic mg/l	Barium mg/l	Beryllium mg/l	Cadmium mg/l	Calcium mg/l	Cesium mg/l	Chromium mg/l	Cobalt mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Lithium mg/l	Magnesium mg/l
Background Concentration			0.223	0.01U	0.01U	0.071	0.005U	0.005U	34	0.02U	0.026	0.022U	0.046	0.162	0.016	0.1U	6
Proposed Concentration Limit			5.0	0.06U	0.05	1.0	0.005U	0.01	NS	0.02U	0.05	0.022U	0.046	0.3	0.05	0.1U	NS
10-86	02/02/88	1				0.072											
	06/06/88	2														NR	
	09/20/88	3				0.099										NR	
	12/07/88	4														NR	
58-87	01/22/88	1				0.107											
	06/06/88	2														NR	
	09/16/88	3				0.079							0.058			NR	
	12/14/88	4											0.100			NR	NR
59-87	01/22/88	1				0.253			79					0.172			15
	06/06/88	2				0.272			94					0.809		NR	19
	09/16/88	3				0.362			130			0.024		25.929		NR	26
	12/06/88	4	Insufficient Sample for Metals Analysis														
60-87	01/22/88	1				0.143											
	06/06/88	2				0.108										NR	
	09/22/88	3				0.120								0.146		NR	
	12/06/88	4	0.38			0.075								0.368		NR	
61-87	01/26/88	1			0.131					0.028			0.186				
	06/08/88	2				0.098										NR	
	09/23/88	3				0.081										NR	
	12/09/88	4														NR	
62-87	01/25/88	1				0.154											
	06/08/88	2				0.107										NR	
	09/23/88	3				0.102							0.191			NR	
	12/09/88	4	NR	NR		NR	NR	NR	NR		NR	NR	NR	NR		NR	NR

U = Analyzed but not detected above given value
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NR = Analyte not reported
NS = No Standard

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TABLE 29 (cont.)

PRESENT LANDFILL ALLUVIAL GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

Present Landfill Alluvial Wells

Well Number	Date Sampled	Qtr	Manganese mg/l	Mercury mg/l	Molybdenum mg/l	Nickel mg/l	Potassium mg/l	Selenium mg/l	Silver mg/l	Sodium mg/l	Strontium mg/l	Thallium mg/l	Vanadium mg/l	Zinc mg/l
Background Concentration			0.066	0.0002U	0.022U	0.370	0.8	0.005U	0.083	13	0.15	0.01U	0.024U	0.164
Proposed Concentration Limits			0.066	0.002	0.1	0.370	NS	0.01	0.083	NS	NS	0.01U	0.024U	0.164
10-86	02/02/88	1	0.084										0.029	
	06/06/88	2												
	09/20/88	3	0.069											
	12/07/88	4												
58-87	01/22/88	1	0.522				5.2			25	0.23			0.427
	06/06/88	2	0.564				3.6				0.20			
	09/16/88	3	0.550				4.0			17	0.27			0.297
	12/14/88	4	0.093				2.5			15	0.22			0.581
59-87	01/22/88	1	2.131				11			32	0.62			0.584
	06/06/88	2	3.524				7.0			33	0.64			0.562
	09/16/88	3	11.341	0.001	0.037		7.3			43	0.97			
	12/06/88	4	Insufficient Sample for Metals Analysis											
60-87	01/22/88	1	0.314				1.0			14				0.242
	06/06/88	2												
	09/22/88	3	0.078							15				
	12/06/88	4	0.108											
61-87	01/26/88	1	0.270				2.1			15	0.16		0.026	
	06/08/88	2	0.081											
	09/23/88	3	0.082											
	12/09/88	4												
62-87	01/25/88	1	0.410				3.0				0.17			
	06/08/88	2	0.231				0.9							
	09/23/88	3	0.145											0.430
	12/09/88	4	NR		NR	NR			NR	NR	NR		NR	NR

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NR = Analyte not reported
NS = No Standard

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TABLE 29 (cont.)

PRESENT LANDFILL ALLUVIAL GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

Present Landfill Alluvial Wells

Well Number	Date Sampled	Qtr	Aluminum mg/l	Antimony mg/l	Arsenic mg/l	Barium mg/l	Beryllium mg/l	Cadmium mg/l	Calcium mg/l	Cesium mg/l	Chromium mg/l	Cobalt mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Lithium mg/l	Magnesium mg/l
Background Concentration			0.223	0.01U	0.01U	0.071	0.005U	0.005U	34	0.02U	0.026	0.022U	0.046	0.162	0.016	0.1U	6
Proposed Concentration Limit			5.0	0.06U	0.05	1.0	0.005U	0.01	NS	0.02U	0.05	0.022U	0.046	0.3	0.05	0.1U	NS
63-87	01/26/88	1				0.246			123		0.030						15
	06/08/88	2				0.447			135					7.384		NR	24
	09/23/88	3				0.641			144					14.588		NR	22
	12/09/88	4	NR	NR		NR	NR	NR	NR		NR	NR	NR	NR		NR	NR
67-87	01/28/88	1				0.103			40								
	06/16/88	2							35				0.054			NR	
	09/22/88	3				0.097			40				0.202			NR	
	12/14/88	4				0.078			37				0.483			NR	
68-87	01/28/88	1				0.153								0.950			
	06/16/88	2				0.116										NR	
	09/22/88	3				0.129									NR		
	12/14/88	4				0.107										NR	
71-87	01/29/88	1				0.084			71								9
	06/08/88	2				0.099			75							NR	10
	09/20/88	3				0.105			77							NR	9
	12/06/88	4				0.10			82		0.067					NR	9
66-87	01/29/88	1				0.102			34		0.024		0.055				7
	06/14/88	2							66				0.143			NR	17
	09/16/88	3				0.090							0.055			NR	7
	12/07/88	4														NR	
65-87	01/27/88	1				0.129			74								13
	06/14/88	2				0.095			60							NR	11
	09/23/88	3				0.110			62							NR	8
	12/09/88	4			NR	0.1011			57							NR	8

U = Analyzed but not detected above given value
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NR = Analyte not reported
NS = No Standard

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TABLE 29 (cont.)

PRESENT LANDFILL ALLUVIAL GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

Present Landfill Alluvial Wells

Well Number	Date Sampled	Qtr	Manganese mg/l	Mercury mg/l	Molybdenum mg/l	Nickel mg/l	Potassium mg/l	Selenium mg/l	Silver mg/l	Sodium mg/l	Strontium mg/l	Thallium mg/l	Vanadium mg/l	Zinc mg/l
Background Concentration			0.066	0.0002U	0.022U	0.370	0.8	0.005U	0.083	13	0.15	0.01U	0.024U	0.164
Proposed Concentration Limit			0.066	0.002	0.1	0.370	NS	0.01	0.083	NS	NS	0.01U	0.024U	0.164
63-87	01/26/88	1	0.642				3.8			34	0.70			
	06/08/88	2	3.950				1.7			31	0.67			
	09/23/88	3	4.983	0.0004			1.6			34	0.75			
	12/09/88	4	NR		NR	NR	1.2		NR	NR	NR		NR	NR
67-87	01/28/88	1	0.667				4.9			17	0.24			0.189
	06/16/88	2	0.308				1.8			16	0.16			0.494
	09/22/88	3	0.472				1.8			16	0.21			1.220
	12/14/88	4	0.379				1.1			16	0.19			1.698
68-87	01/28/88	1	1.615				3.0			19	0.20			
	06/16/88	2												
	09/22/88	3	0.384							14	0.17			
	12/14/88	4	0.302								0.15			
71-87	01/29/88	1					1.7				0.42			
	06/08/88	2					1.1				0.42			
	09/20/88	3	0.090								0.47			
	12/06/88	4	0.067								0.46			
66-87	01/29/88	1	0.178		0.30		6.1			95	0.30		0.100	0.471
	06/14/88	2	0.224				5.4			79	0.45			0.594
	09/16/88	3	0.119		0.026		3.7			62	0.28			0.246
	12/07/88	4					1.7			38	0.20			0.197
65-87	01/27/88	1	1.048				6.2			71	0.50			
	06/14/88	2	1.565				3.3			29	0.36			
	09/23/88	3	1.132				2.3			27	0.33			
	12/09/88	4	0.915				1.8			20	0.30			

U = Analyzed but not detected above given value
blank = Not Detected in Sample or Present Below Concentration Limits
NR = Analyte not reported
NS = No Standard

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TABLE 29 (cont.)

PRESENT LANDFILL ALLUVIAL GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

Present Landfill Alluvial Wells

Well Number	Date Sampled	Qtr	Aluminum mg/l	Antimony mg/l	Arsenic mg/l	Barium mg/l	Beryllium mg/l	Cadmium mg/l	Calcium mg/l	Cesium mg/l	Chromium mg/l	Cobalt mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Lithium mg/l	Magnesium mg/l
Background Concentration			0.223	0.06U	0.01U	0.071	0.0050	0.005U	34	0.02U	0.026	0.0022U	0.046	0.162	0.0162	0.01U	6
Proposed Concentration Limit			5.0	0.06U	0.05	1.0	0.0050	NS	0.01	0.02U	0.05	0.022U	0.046	0.3	0.05	0.1U	NS
64-87	01/29/88	1				0.183			47			0.031	0.057				8
	06/14/88	2				0.181			47					0.324		NR	9
	09/23/88	3				0.151			58					0.779		NR	9
	12/08/88	4	Insufficient Sample for Analysis														
72-87	01/28/88	1				0.157			89								17
	06/16/88	2	Dry														
	09/21/88	3	Dry														
	12/15/88	4	Dry														
70-87	02/03/88	1	Dry														
	06/16/88	2				0.092			90				0.052			NR	30
	09/22/88	3				0.117			103				0.086			NR	25
	12/14/88	4				0.106			94				0.145			NR	25
07-86	02/01/88	1	Insufficient Sample for Analysis														
	06/16/88	2	Dry														
	09/14/88	3	Dry														
	12/15/88	4	Dry														
40-87	02/01/88	1	Dry														
	06/14/88	2	Insufficient Sample for Analysis														
	09/14/88	3	Dry														
	12/13/88	4	Dry														
42-87	02/04/88	1				0.144			71					0.407			13
	06/16/88	2	Dry														
	09/21/88	3	Dry														
	12/12/88	4	Dry														

U = Analyzed but not detected above given value
blank = Not Detected in Sample or Present Below Concentration Limits
NR = Analyte not reported
NS = No Standard

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TABLE 29 (cont.)

PRESENT LANDFILL ALLUVIAL GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

Present Landfill Alluvial Wells

Well Number	Date Sampled	Qtr	Manganese mg/l	Mercury mg/l	Molybdenum mg/l	Nickel mg/l	Potassium mg/l	Selenium mg/l	Silver mg/l	Sodium mg/l	Strontium mg/l	Thallium mg/l	Vanadium mg/l	Zinc mg/l
Background Concentration			0.066	0.0002U	0.022U	0.370	0.8	0.005U	0.083	13	0.15	0.010U	0.024	0.164
Proposed Concentration Limit			0.066	0.002	0.1	0.370	NS	0.01	0.083	NS	NS	0.01U	0.024U	0.164
64-87	01/29/88	1	1.200		0.355		4.2		0.0085	19	0.33		0.057	
	06/14/88	2	1.084				1.6			16	0.26			
	09/23/88	3	1.353				1.9			40	0.37			0.228
	12/08/88	4	Insufficient Sample for Metals Analysis											
72-87	01/28/88	1	0.511				3.1			23	0.60			
	06/16/88	2	Dry											
	09/21/88	3	Dry											
	12/15/88	4	Dry											
70-87	02/03/99	1	Dry											
	06/16/88	2	0.275				5.3			60	0.72			0.398
	09/22/88	3	0.403				3.8			71	0.90			0.667
	12/14/88	4	0.339				2.4			72	0.85			0.796
07-86	02/01/88	1	Insufficient Sample for Metals Analysis											
	06/16/88	2	Dry											
	09/14/88	3	Dry											
	12/15/88	4	Dry											
40-87	02/01/88	1	Dry											
	06/14/88	2	Insufficient Sample for Metals Analysis											
	09/14/88	3	Dry											
	12/13/88	4	Dry											
42-87	02/04/88	1	0.567				9.4			53	1.3			
	06/16/88	2	Dry											
	09/21/88	3	Dry											
	12/12/88	4	Dry											

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blank = Not Detected in Sample or Present Below Concentration Limits
NR = Analyte not reported
NS = No Standard

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TABLE 29 (cont.)

PRESENT LANDFILL ALLUVIAL GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

Present Landfill Alluvial Wells

Well Number	Date Sampled	Qtr	Aluminum mg/l	Antimony mg/l	Arsenic mg/l	Barium mg/l	Beryllium mg/l	Cadmium mg/l	Calcium mg/l	Cesium mg/l	Chromium mg/l	Cobalt mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Lithium mg/l	Magnesium mg/l
Background Concentration			0.223	0.06U	0.01U	0.071	0.0050	0.005U	34	0.02U	0.026	0.0022U	0.046	0.162	0.0162	0.01U	6
Proposed Concentration Limit			5.0	0.06U	0.05	1.0	0.0050	NS	0.01	0.02U	0.05	0.022U	0.046	0.3	0.05	0.1U	NS
06-86	02/01/88	1	Insufficient Sample for Analysis														
	06/14/88	2	Dry														
	09/21/88	3	Dry														
	12/15/88	4	Dry														
05-86	03/28/88	1							270								319
	06/01/88	2	Insufficient Sample for Analysis														
	10/04/88	3	Dry														
	12/23/88	4	Dry														

U = Analyzed but not detected above given value
blank = Not Detected in Sample or Present Below Concentration Limits
NR = Analyte not reported
NS = No Standard

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TABLE 29 (cont.)

PRESENT LANDFILL ALLUVIAL GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

Present Landfill Alluvial Wells

Well Number	Date Sampled	Qtr	Manganese mg/l	Mercury mg/l	Molybdenum mg/l	Nickel mg/l	Potassium mg/l	Selenium mg/l	Silver mg/l	Sodium mg/l	Strontium mg/l	Thallium mg/l	Vanadium mg/l	Zinc mg/l
Background Concentration			0.066	0.0002U	0.022U	0.370	0.8	0.005U	0.083	13	0.15	0.01U	0.024U	0.164
Proposed Concentration Limit			0.066	0.002	0.1	0.370	NS	0.01	0.083	NS	NS	0.01U	0.024U	0.164
06-86	02/01/88	1	Insufficient Sample for Analysis											
	06/14/88	2	Dry											
	09/21/88	3	Dry											
	12/15/88	4	Dry											
05-86	03/29/88	1					5.0	0.008		1136	7.89			
	06/01/88	2	Insufficient Sample for Analysis											
		3	No Data											
		4	No Data											

U = Analyzed but not detected above given value
blank = Not Detected in Sample or Present Below Concentration Limits
NR = Analyte not reported
NS = No Standard

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TABLE 30

PRESENT LANDFILL ALLUVIAL GROUND WATER
DISSOLVED RADIONUCLIDE CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTERS 1988

Present Landfill Alluvial Wells

Well Number	Date Sampled	Qtr	Gross Alpha pCi/l	Gross Beta pCi/l	Total Uranium pCi/l	Plutonium 239,240 pCi/l	Americium pCi/l	Tritium pCi/l
Background Concentration			<MDA (34)	<MDA (75)	<MDA (1.3)	<MDA (0.3)	<MDA (1.6)	<593
Proposed Concentration Limit			15	50	40	40	4	20,000
10-86	02/02/88	1			11.6		NR	
	06/06/88	2						
	09/20/88	3						
	12/07/88	4						
58-87	01/22/88	1						
	06/06/88	2			1.3			
	09/16/88	3						
	12/14/88	4						
59-87	01/22/88	1			9.9			
	06/06/88	2			8.9			
	09/16/88	3			10.7			
	12/09/88	4	Insufficient Sample for Radiochemical Analysis					
60-87	01/22/88	1						
	06/06/88	2						
	09/22/88	3						
	12/06/88	4						
61-87	01/26/88	1						
	06/08/88	2						
	09/23/88	3			NR			
	12/09/88	4						
62-87	01/25/88	1						
	06/08/88	2						
	09/23/88	3	No Data - Analysis Failed					
	12/09/88	4						

Blank = Not Detected in Sample or concentration Below Background Level
NR = Not Reported

TABLE 30 (cont.)

PRESENT LANDFILL ALLUVIAL GROUND WATER
DISSOLVED RADIONUCLIDE CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTERS 1988

Present Landfill Alluvial Wells

Well Number	Date Sampled	Qtr	Gross Alpha pCi/l	Gross Beta pCi/l	Total Uranium pCi/l	Plutonium 239,240 pCi/l	Americium pCi/l	Tritium pCi/l
Background Concentration			<MDA (34)	<MDA (75)	<MDA (1.3)	<MDA (0.3)	<MDA (1.6)	<593
Proposed Concentration Limit			15	50	40	40	4	20,000
63-87	01/26/88	1			8.4			
	06/08/88	2			6.6			
	09/23/88	3			6.1			2,100
	12/09/88	4			4.3			1,800
67-87	01/28/88	1			1.0			
	06/16/88	2						
	09/22/88	3						
	12/14/88	4						
68-87	01/28/88	1						
	06/16/88	2						
	09/22/88	3						
	12/14/88	4						
71-87	01/29/88	1						
	06/08/88	2			2.0			
	09/20/88	3	No Data - Analysis Failed		1.3			
	12/06/88	4			1.7			
06-86	02/01/88	1	Insufficient Sample for Radiochemical Analysis					
	06/14/88	2	Dry					
	09/21/88	3	Dry					
	12/15/88	4	Dry					
05-86	03/29/88	1	110±35		169			
	06/01/88	2	Insufficient Sample for Radiochemical Analysis					
		3	No Data					
	12/23/88	4	Dry					

Blank = Not Detected in Sample or concentration Below Background Level
NR = Not Reported

TABLE 30 (cont.)

PRESENT LANDFILL ALLUVIAL GROUND WATER
DISSOLVED RADIONUCLIDE CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTERS 1988

Present Landfill Alluvial Wells

Well Number	Date Sampled	Qtr	Gross Alpha pCi/l	Gross Beta pCi/l	Total Uranium pCi/l	Plutonium 239,240 pCi/l	Americium pCi/l	Tritium pCi/l
Background Concentration			<MDA (34)	<MDA (75)	<MDA (1.3)	<MDA (0.3)	<MDA (1.6)	<593
Proposed Concentration Limit			15	50	40	40	4	20,000
66-87	01/29/88	1			1.31			
	06/14/88	2						
	09/16/88	3	44±9					
	12/07/88	4						
65-87	01/27/88	1			10.0			
	06/14/88	2			4.0			
	09/23/88	3	Data not yet received					
	12/09/88	4			2.1			
64-87	01/29/88	1			1.48			
	06/14/88	2						
	09/23/88	3						
	12/08/88	4	Insufficient Sample for Radiochemical Analysis					
72-87	01/28/88	1			10.2			
	06/16/88	2	Dry					
	09/21/88	3	Dry					
	12/15/88	4	Dry					
70-87	02/03/88	1	Dry					
	06/16/88	2			18.7			
	09/22/88	3			18.7			
	12/14/88	4			17.6			
7-86	02/01/88	1	Insufficient Sample for Radiochemical Analysis					
	06/16/88	2	Dry					
	09/22/88	3	Dry					
	12/14/88	4	Dry					

Blank = Not Detected in Sample or concentration Below Background Level
NR = Not Reported

TABLE 30 (cont.)

PRESENT LANDFILL ALLUVIAL GROUND WATER
DISSOLVED RADIONUCLIDE CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTERS 1988

Present Landfill Alluvial Wells

Well Number	Date Sampled	Qtr	Gross Alpha pCi/l	Gross Beta pCi/l	Total Uranium pCi/l	Plutonium 239,240 pCi/l	Americium pCi/l	Tritium pCi/l
Background Concentration			<MDA (34)	<MDA (75)	<MDA (1.3)	<MDA (0.3)	<MDA (1.6)	<593
Proposed Concentration Limit			15	50	40	40	4	20,000
40-87	02/01/88	1	Dry					
	06/14/88	2	Insufficient Sample for Radiochemical Analysis					
	09/14/88	3	Dry					
	12/13/88	4	Dry					
42-87	02/04/88	1						
	06/16/88	2	Dry					
	09/21/88	3	Dry					
	12/12/88	4	Dry					

Blank = Not Detected in Sample or concentration Below Background Level
NR = Not Reported

TABLE 32

PRESENT LANDFILL BEDROCK GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

Present Landfill Bedrock Wells

Well Number	Date Sampled	Qtr	Aluminum mg/l	Antimony mg/l	Arsenic mg/l	Barium mg/l	Beryllium mg/l	Cadmium mg/l	Calcium mg/l	Cesium mg/l	Chromium mg/l	Cobalt mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Lithium mg/l	Magnesium mg/l
Background Concentration			0.038	0.06U	0.01U	0.106	0.005U	0.005U	110	0.02U	0.0033	0.022U	0.048	0.161	0.019	0.1U	25
Proposed Concentration Limit			5	0.06U	0.05	1.0	0.005U	0.01	NS	0.02U	0.05	0.022U	0.048	0.3	0.05	0.1U	NS
09-86	02/24/88	1				0.107											
	06/06/88	2				0.109								0.318		NR	
	09/20/88	3				0.132										NR	
	12/16/88	4	.243			0.113										NR	
08-86	02/24/88	1	0.042													NR	
	06/14/88	2	Insufficient Sample for Metals Analysis														
	09/14/88	3	Insufficient Sample for Metals Analysis														
	12/15/88	4	Insufficient Sample for Metals Analysis														
41-87	02/03/88	1				0.290										0.13	
	06/14/88	2	Insufficient Sample for Metals Analysis														
	09/14/88	3	Insufficient Sample for Metals Analysis														
	12/13/88	4	Insufficient Sample for Analysis														

U = Analyzed but not detected above given value
blank = NotDetected in Sample or Present Below Concentration Limits
NR = Analyte not reported
NS = No Standard

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TABLE 32 (cont.)

PRESENT LANDFILL BEDROCK GROUND WATER
DISSOLVED METALS CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTER 1988

Present Landfill Bedrock Wells

Well Number	Date Sampled	Qtr	Manganese mg/l	Mercury mg/l	Molybdenum mg/l	Nickel mg/l	Potassium mg/l	Selenium mg/l	Silver mg/l	Sodium mg/l	Strontium mg/l	Thallium mg/l	Vanadium mg/l	Zinc mg/l
Background Concentration			25	0.0002U	0.022U	0.054	5.2	0.005U	0.0080	36	0.87	0.01U	0.024U	0.098
Proposed Concentration Limit			NS	0.002	0.1	0.2	NS	0.01	0.05	NS	NS	0.01U	0.024U	0.098
09-86	02/24/88	1		0.0002						58				
	06/06/88	2								55				
	09/20/88	3								61				
	12/16/88	4												0.11
08-86	02/24/88	1			0.041					72				
	06/14/88	2	Insufficient Sample for Metals Analysis											
	09/14/88	3	Insufficient Sample for Metals Analysis											
	12/15/88	4	Insufficient Sample for Metals Analysis											
41-87	02/03/88	1					8.6			443	1.33			
	06/14/88	2	Insufficient Sample for Metals Analysis											
	09/14/88	3	Insufficient Sample for Metals Analysis											
	12/13/88	4	Insufficient Sample for Metals Analysis											

U = Analyzed but not detected above given value
blank = NotDetected in Sample or Present Below Concentration Limits
NR = Analyte not reported
NS = No Standard

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TABLE 33

PRESENT LANDFILL BEDROCK GROUND WATER
DISSOLVED RADIONUCLIDE CONCENTRATIONS ABOVE ESTIMATED BACKGROUND
FIRST THROUGH FOURTH QUARTERS 1988

Present Landfill Bedrock Wells

Well Number	Date Sampled	Qtr	Gross Alpha pCi/l	Gross Beta pCi/l	Total Uranium pCi/l	Plutonium 239,240 pCi/l	Americium pCi/l	Tritium pCi/l
Background Concentration			<MDA (40)	<MDA (76)	<MDA 2.42	<MDA (.64)	<MDA (4.6)	<593
Proposed Concentration Limit			15	50	40	40	4	20,000
09-86	02/04/88	1						
	06/06/88	2						
	09/20/88	3						
	12/16/88	4						
08-86	02/04/88	1			3.8			
	06/14/88	2	Insufficient Sample for Radionuclide Analysis					
	09/14/88	3	Insufficient Sample for Radionuclide Analysis					
	12/15/88	4	Insufficient Sample for Radionuclide Analysis					
41-87	02/03/88	1						
	06/14/88	2			7.4			
	09/14/88	3	Insufficient Sample for Radionuclide Analysis					
	12/13/88	4	Insufficient Sample for Radionuclide Analysis					

Blank = Not Detected in Sample or Concentration Below at Background Level