PROPOSED
INTERIM MEASURES/INTERIM REMEDIAL ACTION PLAN AND DECISION DOCUMENT

903 PAD, MOUND, and EAST TRENCHES AREAS

OPERABLE UNIT 2

U.S. DEPARTMENT OF ENERGY

Rocky Flats Plant
Golden, Colorado

December, 1989

Rockwell International
Aerospace Operations
Rocky Flats Plant

Volume II - Appendix

DRAFT

ADMIN RECORD

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Volume II - Appendix

DRAFT

REVIEWED FOR CLASSIFICATION/UCNI
By K. L. Pallosky (UNM)
Date 11/7/91

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Chloro methane ug/l	Bromo methane ug/l	Vinyl Chloride ug/l	Chloro ethane ug/l	Methylene Chloride ug/l	Acetone ug/l	Carbon Disulfide ug/l
44-87	01/18/89	1	DRY						
44-87	04/13/89	2	DRY						
44-87	06/10/89		DRY						
44-87	08/17/89		DRY						
63-86	01/18/89	1	DRY						
63-86	04/13/89	2	DRY						
63-86	06/10/89		DRY						
63-86	07/26/89		DRY						
64-86	01/18/89	1	DRY						
64-86	04/24/89	2	10 U	10 U	10 U	10 U	5 U	10 U R	5 U
64-86	05/31/89		10 U	10 U	10 U	10 U	5 U	2 J	5 U
64-86	07/10/89		10 U	10 U	10 U	10 U	3 J	10 U	5 U
15-87	02/07/89	1	DRY						
15-87	05/01/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U
29-87	02/01/89	1	10 U	10 U	10 U R	10 U	5 U	10 U	5 U
29-87	04/24/89	2	10 U	10 U	10 U	10 U	6 U	10 U	5 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	1,1-Di-chloro ethene ug/l	1,1-Di-chloro ethane ug/l	Total-1,2-Dichloro ethene ug/l	Chloroform ug/l	1,2-Di-chloro ethane ug/l	2-Butanone ug/l	1,1,1-Tri chloro ethane ug/l
44-87	01/18/89	1	DRY						
44-87	04/13/89	2	DRY						
44-87	06/10/89		DRY						
44-87	08/17/89		DRY						
63-86	01/18/89	1	DRY						
63-86	04/13/89	2	DRY						
63-86	06/10/89		DRY						
63-86	07/26/89		DRY						
64-86	01/18/89	1	DRY						
64-86	04/24/89	2	5 U	5 U	5 U	5 U	5 U	10 U	5 U
64-86	05/31/89		5 U	5 U	5 U	5 U	5 U	10 U	5 U
64-86	07/10/89		5 U	5 U	5 U	5 U	5 U	10 U	5 U
15-87	02/07/89	1	DRY						
15-87	05/01/89	2	5 J	5 U	5 U	21	5 U	10 U	5 U
29-87	02/01/89	1	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
29-87	04/24/89	2	5 U	5 U	5 U	5 U	5 U	10 U	5 U

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

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Carbon Tetra chloride ug/l	Vinyl Acetate ug/l	Bromo dichloro methane ug/l	1,2-Di-chloro propane ug/l	Cis-1,3-Dichloro propene ug/l	Trichloro ethene ug/l	Dibromo chloro methane ug/l
44-87	01/18/89	1	DRY						
44-87	04/13/89	2	DRY						
44-87	06/10/89		DRY						
44-87	08/17/89		DRY						
63-86	01/18/89	1	DRY						
63-86	04/13/89	2	DRY						
63-86	06/10/89		DRY						
63-86	07/26/89		DRY						
64-86	01/18/89	1	DRY						
64-86	04/24/89	2	5 U	10 U R	5 U	5 U	5 U	5 U	5 U
64-86	05/31/89		5 U	10 U	5 U	5 U	5 U	5 U	5 U
64-86	07/10/89		5 U	10 U	5 U	5 U	5 U	5 U	5 U
15-87	02/07/89	1	DRY						
15-87	05/01/89	2	1100 J	10 U R	5 U	5 U	5 U	120	5 U
29-87	02/01/89	1	5 U	10 U	5 U	5 U	5 U	5 U	5 U
29-87	04/24/89	2	5 U	10 U R	5 U	5 U	5 U	5 U	5 U

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B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	1,1,2-Tri chloro ethane ug/l	Benzene ug/l	Trans-1,3-Dichloro propene ug/l	2-Chloro ethylvinyl ether ug/l	Bromoform ug/l	4-Methyl-2-penta none ug/l	2-Hexanone ug/l
44-87	01/18/89	1	DRY						
44-87	04/13/89	2	DRY						
44-87	06/10/89		DRY						
44-87	08/17/89		DRY						
63-86	01/18/89	1	DRY						
63-86	04/13/89	2	DRY						
63-86	06/10/89		DRY						
63-86	07/26/89		DRY						
64-86	01/18/89	1	DRY						
64-86	04/24/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
64-86	05/31/89		5 U	5 U	5 U	NR	5 U	10 U	10 U
64-86	07/10/89		5 U	5 U	5 U	NR	5 U	10 U	10 U
15-87	02/07/89	1	DRY						
15-87	05/01/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
29-87	02/01/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
29-87	04/24/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U

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

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Tetra chloro ethene ug/l	1,1,2,2-Tetrachloro ethane ug/l	Toluene ug/l	Chloro benzene ug/l	Ethyl benzene ug/l	Styrene ug/l	Total Xylenes ug/l
44-87	01/18/89	1	DRY						
44-87	04/13/89	2	DRY						
44-87	06/10/89		DRY						
44-87	08/17/89		DRY						
63-86	01/18/89	1	DRY						
63-86	04/13/89	2	DRY						
63-86	06/10/89		DRY						
63-86	07/26/89		DRY						
64-86	01/18/89	1	DRY						
64-86	04/24/89	2	8 J	5 U	5 U	5 U	5 U	5 U	5 U
64-86	05/31/89		5 U	5 U	5 U	5 U	5 U	5 U	5 U
64-86	07/10/89		5 U	5 U	5 U	5 U	5 U	5 U	5 U
15-87	02/07/89	1	DRY						
15-87	05/01/89	2	190	5 U	5 U	5 U	5 U	5 U	5 U
29-87	02/01/89	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
29-87	04/24/89	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Chloro methane ug/l	Bromo methane ug/l	Vinyl Chloride ug/l	Chloro ethane ug/l	Methylene Chloride ug/l	Acetone ug/l	Carbon Disulfide ug/l
65-86	01/18/89	1	DRY						
65-86	04/13/89	2	DRY						
65-86	06/01/89		10 U	10 U	10 U	10 U	5 U	10 U	3 J
65-86	07/20/89		Data not yet received						
62-86	04/17/89	2	10 U	10 U	10 U	10 U	5 U	10 U R	5 U
62-86	06/10/89		10 U	10 U	10 U	10 U	5 U	2 JB	5 U
62-86	07/27/89		Data not yet received						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	1,1-Di-chloro ethene ug/l	1,1-Di-chloro ethane ug/l	Total-1,2-Dichloro ethene ug/l	Chloroform ug/l	1,2-Di-chloro ethane ug/l	2-Butanone ug/l	1,1,1-Tri chloro ethane ug/l
65-86	01/18/89	1	DRY						
65-86	04/13/89	2	DRY						
65-86	06/01/89		5 U	5 U	5 U	5 U	5 U	10 U	5 U
65-86	07/20/89		Data not yet received						
62-86	04/17/89	2	5 U	5 U	5 U	5 U	5 U	10 U	5 U
62-86	06/10/89		5 U	5 U	5 U	5 U	5 U	10 U	5 U
62-86	07/27/89		Data not yet received						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Carbon Tetra chloride ug/l	Vinyl Acetate ug/l	Bromo dichloro methane ug/l	1,2-Di-chloro propane ug/l	Cis-1,3-Dichloro propene ug/l	Trichloro ethene ug/l	Dibromo chloro methane ug/l
65-86	01/18/89	1	DRY						
65-86	04/13/89	2	DRY						
65-86	06/01/89		5 U	10 U	5 U	5 U	5 U	5 U	5 U
65-86	07/20/89		Data not yet received						
62-86	04/17/89	2	5 U	10 U R	5 U	5 U	5 U	5 U	5 U
62-86	06/10/89		1 J	10 U	5 U	5 U	5 U	5 U	5 U
62-86	07/27/89		Data not yet received						

NR = Analyte not reported
J = Present below detection limit
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B = Present in laboratory blank
* = Holding time not met
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E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	1,1,2-Tri chloro ethane ug/l	Benzene ug/l	Trans-1,3-Dichloro propene ug/l	2-Chloro ethylvinyl ether ug/l	Bromoform ug/l	4-Methyl-2-penta none ug/l	2-Hexanone ug/l
65-86	01/18/89	1	DRY						
65-86	04/13/89	2	DRY						
65-86	06/01/89		5 U	5 U	5 U	NR	5 U	10 U	10 U
65-86	07/20/89		Data not yet received						
62-86	04/17/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
62-86	06/10/89		5 U	5 U	5 U	NR	5 U	10 U	10 U
62-86	07/27/89		Data not yet received						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Tetra chloro ethene ug/l	1,1,2,2-Tetrachloro ethane ug/l	Toluene ug/l	Chloro benzene ug/l	Ethyl benzene ug/l	Styrene ug/l	Total Xylenes ug/l
65-86	01/18/89	1	DRY						
65-86	04/13/89	2	DRY						
65-86	06/01/89		5 U	5 U	5 U	5 U	5 U	5 U	5 U
65-86	07/20/89		Data not yet received						
62-86	04/17/89	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U
62-86	06/10/89		5 U	5 U	5 U	5 U	5 U	5 U	5 U
62-86	07/27/89		Data not yet received						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
44-87	11/14/87	4	DRY						
44-87	02/22/88	1	DRY						
44-87	04/18/88	2	DRY						
44-87	07/20/88	3	DRY						
44-87	10/26/88	4	DRY						
63-86	07/06/87	3	DRY						
63-86	10/14/87	4	DRY						
63-86	02/17/88	1	DRY						
63-86	04/13/88	2	DRY						
63-86	07/18/88	3	DRY						
63-86	10/21/88	4	DRY						
64-86	04/29/87	1	0.0290 U	0.06 U	0.0100 U	0.1111	0.005 U	0.0050 U	52.1962
64-86	05/28/87	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
64-86	07/16/87	3	0.0430	0.02 U	0.005 U	0.0774	0.005 U	0.0003 J	76.4896
64-86	10/12/87	4	DRY						
64-86	02/17/88	1	0.0290 U	0.02 U	0.005 U	0.0487	0.005 U	0.001 U	57.5364

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U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
09-87	06/19/87	2	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
09-87	10/12/87	4	285	4.3	2.96	27	189
09-87	10/12/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
09-87	02/25/88	1	271	5.82	1.85	51.7	109
09-87	04/19/88	2	290	6.38	2.81	56.8	165
09-87	08/09/88	3	311 J	5.69 J	2.57 J	34.5	198 J
09-87	10/26/88	4	247	6.06	2.02	33.4	174
45-87	11/23/87	4	327	6.38	0.02 U	73.6	111
45-87	11/23/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
45-87	02/25/88	1	342	8.33	0.02 U	55.0	114
45-87	04/18/88	2	344	10.6	0.05	104	199
45-87	07/21/88	3	341	11.0	0.07	47.0	232
45-87	10/17/88	4	340	12.1	0.06	47.0	23.1
62-86	04/09/87	1	274	28.0	2.30	60.0	67.5
62-86	04/29/87	1	286	26.9	2.60	90.0	124
62-86	05/26/87	2	295	25.5	3.4	48.0	164
62-86	07/06/87	3	280	102	2.3	23.0	157

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B = Present in laboratory blank

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
62-86	10/14/87	4	303	27.3	2.70	48.0	178
62-86	02/17/88	1	275	29.7	1.60	39.0	172
62-86	04/13/88	2	302	26.8	2.89	57.7	134
62-86	07/14/88	3	283 J	30.2	2.99 J	57.6 J	151 J
62-86	10/20/88	4	328	71.0	7.41	54.1	164
62-86	11/14/88	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
16-87	09/10/87	3	256	4.14	0.46	124	119
16-87	09/15/87	3	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
16-87	10/16/87	4	264	3.7	1.58	77	133
16-87	10/16/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
16-87	02/29/88	1	287	7.46	0.35	93.8	83.1
16-87	04/21/88	2	277	4.04	0.05	84.8	166
16-87	08/09/88	3	286 J	3.33 J	0.02 U	64.6	176 J
16-87	10/31/88	4	276	4.12	1.46	73.0	161
14-87	08/31/87	3	661	27.0	1.70	27.0	530
14-87	10/12/87	4	635	30.2	1.60	41	48
14-87	10/12/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
14-87	02/29/88	1	265	28.0	1.59	43.1	36.3
14-87	04/21/88	2	275	24.8	1.70	48.8	75.4
14-87	08/08/88	3	287 J	26.1 J	1.71 J	41.9	112 J
14-87	10/26/88	4	288	30.9	1.77	43.8	122
30-87	01/22/88	4	118	40.1	0.02 U	22.2	87.0
30-87	03/02/88		376	114	0.02 U	16.1	84.0
30-87	04/21/88	2	412	125	0.04	16.5	157
30-87	08/08/88	3	419 J	124 J	0.02 U	2.82	169 J
30-87	08/09/88	3	419 J	127 J	0.02 U	2.78	180 J
30-87	10/26/88	4	409	122	0.02 U	2.21	162
30-87	10/27/88	4	430	122	0.02 U	2.24	160
12-87	08/31/87	3	654	60.5	1.30	108	368
12-87	02/25/88	1	617	38.8	0.71	46.2	212
12-87	04/20/88	2	641	57.0	1.33	102	354
12-87	07/25/88	3	635 J	53.3 J	1.6 J	203	348 J
12-87	10/31/88		DRY				
11-87	09/16/87	3	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
11-87	09/16/87	3	611	88.5	2.25	104	289
11-87	09/21/87	3	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
11-87	10/12/87	4	DRY				
11-87	02/17/88	1	556	92.4	1.60	60.0	280
11-87	04/13/88	2	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
11-87	08/08/88	3	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
11-87	10/26/88		DRY				
01-71	03/09/87	1	311	21.1	7.30	24.0	203
01-71	04/30/87	1	276	21.5	4.40	18.0	212
01-71	05/01/87	1	276	21.5	4.40	18.0	212
01-71	05/21/87	2	319	18.9	6.4	19.0	211
01-71	07/02/87	3	329	16	6.4	18.0	217
01-71	10/14/87	4	292	20.7	3.76	12.0	215
01-71	02/25/88	1	297	19.4	2.60	16.5	123
01-71	04/18/88	2	313	17.4	3.94	1.83	211
01-71	07/25/88	3	289 J	19.0 J	5.22 J	18.8	226 J
01-71	07/26/88	3	269 J	19.0 J	5.28 J	19.0	225 J
01-71	10/31/88	4	312	18.5	5.91	18.7	204
01-71	11/01/88	4	325	19.5	5.93	18.5	201

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
44-87	11/14/87	4	DRY						
44-87	02/22/88	1	DRY						
44-87	04/18/88	2	DRY						
44-87	07/20/88	3	DRY						
44-87	10/26/88	4	DRY						
63-86	07/06/87	3	DRY						
63-86	10/14/87	4	DRY						
63-86	02/17/88	1	DRY						
63-86	04/13/88	2	DRY						
63-86	07/18/88	3	DRY						
63-86	10/21/88	4	DRY						
64-86	04/29/87	1	0.2 U	0.0100 U	0.0063 U	0.0069 U	0.0050 U	NR	16.1115
64-86	05/28/87	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
64-86	07/16/87	3	0.02 U	0.0100 U	0.0341	0.0069 U	0.005 U	NR	23.3312
64-86	10/12/87	4	DRY						
64-86	02/17/88	1	0.02 U	0.0100 U	0.0097	0.0069 U	0.005 U	0.05 J	19.9044

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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
44-87	11/14/87	4	DRY						
44-87	02/22/88	1	DRY						
44-87	04/18/88	2	DRY						
44-87	07/20/88	3	DRY						
44-87	10/26/88	4	DRY						
63-86	07/06/87	3	DRY						
63-86	10/14/87	4	DRY						
63-86	02/17/88	1	DRY						
63-86	04/13/88	2	DRY						
63-86	07/18/88	3	DRY						
63-86	10/21/88	4	DRY						
64-86	04/29/87	1	0.2782	0.0002 U	0.0220 U	0.4380	5.0 U	0.005 U	0.0076 U
64-86	05/28/87	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
64-86	07/16/87	3	0.1053	0.006	0.0220 U	0.0370 U	2.4	0.002 J	0.0076 U
64-86	10/12/87	4	DRY						
64-86	02/17/88	1	0.0587	0.0002 U	0.0234	0.0492	1.6	0.004 J	0.0076 U

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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
44-87	11/14/87	4	DRY				
44-87	02/22/88	1	DRY				
44-87	04/18/88	2	DRY				
44-87	07/20/88	3	DRY				
44-87	10/26/88	4	DRY				
63-86	07/06/87	3	DRY				
63-86	10/14/87	4	DRY				
63-86	02/17/88	1	DRY				
63-86	04/13/88	2	DRY				
63-86	07/18/88	3	DRY				
63-86	10/21/88	4	DRY				
64-86	04/29/87	1	88.4763	0.4237	0.0100 U	0.0240 U	0.02
64-86	05/28/87	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
64-86	07/16/87	3	167.2014	0.6982	0.01 U	0.0368	0.0218
64-86	10/12/87	4	DRY				
64-86	02/17/88	1	105.6913	0.5420	0.01 U	0.0240 U	0.0200 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
64-86	04/11/88	2	0.0315	0.0340 U	0.005 U	0.0411	0.0010 U	0.0050 U	50.7763
64-86	07/13/88	3	DRY						
64-86	10/21/88	4	DRY						
15-87	09/10/87	3	0.0290 U	0.02 U	0.005 U	0.2255	0.005 U	0.001 U	127.6927
15-87	09/11/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
15-87	10/07/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
15-87	10/08/87	4	0.0290 U	NR	NR	0.1920	NR	NR	134.0580
15-87	10/08/87	4	0.0358	0.02 U	0.005 U	0.1917	0.005 U	0.001 U	133.3401
15-87	10/08/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
15-87	02/29/88	1	0.0449	0.019	0.005 U	0.1807	0.003 J	0.001 U	117.2322
15-87	04/20/88	2	0.0499	0.0340 U	0.005 U	0.1561	0.0010 U	0.0050 U	125.8376
15-87	08/09/88	3	DRY						
15-87	10/31/88		DRY						
29-87	10/28/87	4	0.0503	NR	NR	0.0686	NR	NR	288.2088
29-87	10/28/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
29-87	02/29/88	1	0.0529	0.02 U	0.005 U	0.0631	0.005 U	0.001 U	355.1286

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
64-86	04/11/88	2	0.02 U	0.0100 U	0.0078	0.0274	0.005 U	0.1 U	16.6025
64-86	07/13/88	3	DRY						
64-86	10/21/88	4	DRY						
15-87	09/10/87	3	0.02 U	0.0100 U	0.0063 U	0.0069 U	0.005 U	0.01 J	9.8934
15-87	09/11/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
15-87	10/07/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
15-87	10/08/87	4	NR	0.0100 U	0.0088	0.0069 U	NR	NR	10.4154
15-87	10/08/87	4	0.02 U	0.0100 U	0.0087	0.0069 U	0.005 U	0.01 J	10.5314
15-87	10/08/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
15-87	02/29/88	1	0.02 U	0.0380	0.0063 U	0.0285	0.005 U	0.1 U	11.1265
15-87	04/20/88	2	0.02 U	0.0100 U	0.0115	0.0487	0.005 U	0.1 U	10.5472
15-87	08/09/88	3	DRY						
15-87	10/31/88		DRY						
29-87	10/28/87	4	NR	0.0348	0.0088	0.0798	NR	NR	112.0688
29-87	10/28/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
29-87	02/29/88	1	0.02 U	0.0227	0.0994	0.0069 U	0.005 U	0.16	135.7172

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
64-86	04/11/88	2	0.0331	0.0002 U	0.0271	0.0370 U	1.3	0.009	0.0076 U
64-86	07/13/88	3	DRY						
64-86	10/21/88	4	DRY						
15-87	09/10/87	3	0.3044	0.0002 U	0.0220 U	0.0370 U	1.49	0.005 U	0.0076 U
15-87	09/11/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
15-87	10/07/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
15-87	10/08/87	4	0.1393	NR	0.0220 U	0.0370 U	NR	NR	0.0076 U
15-87	10/08/87	4	0.1396	0.0002 U	0.0220 U	0.0370 U	1.49	0.005 U	0.0076 U
15-87	10/08/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
15-87	02/29/88	1	0.0394	0.0002 U	0.0220 U	0.0370 U	0.8	0.005 U	0.0424
15-87	04/20/88	2	0.0051 U	0.0002 U	0.0220 U	0.0370 U	0.7	0.005 U	0.0076 U
15-87	08/09/88	3	DRY						
15-87	10/31/88		DRY						
29-87	10/28/87	4	0.3851	NR	0.0220 U	0.0505	NR	NR	0.0076 U
29-87	10/28/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
29-87	02/29/88	1	0.3116	0.0002 U	0.0220 U	0.4764	5.2	0.37	0.0076 U

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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
64-86	04/11/88	2	95.3058	0.4397	0.01 U	0.0360 U	0.0200 U
64-86	07/13/88	3	DRY				
64-86	10/21/88	4	DRY				
15-87	09/10/87	3	10.0809	0.4483	0.01 U	0.0240 U	0.0200 U
15-87	09/11/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
15-87	10/07/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
15-87	10/08/87	4	7.6207	0.4800	NR	0.0240 U	0.0200 U
15-87	10/08/87	4	9.3217	0.4795	0.01 U	0.0240 U	0.0200 U
15-87	10/08/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
15-87	02/29/88	1	11.9562	0.4859	0.01 U	0.0240 U	0.0361
15-87	04/20/88	2	8.5874	0.4283	0.01 U	0.0360 U	0.0712
15-87	08/09/88	3	DRY				
15-87	10/31/88		DRY				
29-87	10/28/87	4	360.1402	3.8208	NR	0.0240 U	0.1800
29-87	10/28/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
29-87	02/29/88	1	395.3797	4.9549	0.01 U	0.0240 U	0.6236

NR = Analyte not reported
J = Present below detection limit
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N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
29-87	04/21/88	2	0.0493	0.0348	0.005 U	0.0486	0.0010 U	0.0050 U	341.3008
29-87	08/08/88	3	0.0290 U	0.1177	0.005 U	0.0385	0.0011	0.0050 U	269.8329
29-87	10/26/88	4	0.0898	0.1137	0.005 U	0.0497	0.0010 U	0.0050 U	281.1881
65-86	05/13/87	1	0.0290 U	0.06 U	0.0100 U	0.0922	0.005 U	0.0050 U	85.8800
65-86	05/28/87	2	0.0290 U	0.06 U	0.01 U	0.1085	0.005 U	0.005 U	92.4841
65-86	07/16/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
65-86	09/09/87	3	0.2410	0.02 U	0.005 U	0.2399	0.005 U	0.001	99.8950
65-86	10/19/87	4	DRY						
65-86	02/29/88	1	0.0503	0.02 U	0.005 U	0.1020	0.005 U	0.001 U	80.8845
65-86	04/18/88	2	0.0332	0.0340 U	0.005 U	0.0470	0.0010 U	0.0050 U	62.1582
65-86	07/19/88	3	DRY						
65-86	10/21/88	4	DRY						
62-86	04/09/87	1	0.1455	0.0600 U	0.01 U	0.0239	0.005 U	0.005 U	37.1320
62-86	04/29/87	1	0.0839	0.0600 U	0.01 U	0.0191	0.005 U	0.005 U	32.5061
62-86	05/26/87	2	0.0647	0.06 U	0.01 U	0.0322	0.005 U	0.005 U	38.7927
62-86	07/06/87	3	0.0600	0.02 U	0.005 U	0.0356	0.005 U	0.0003 J	35.4258
62-86	10/14/87	4	0.0479	0.02 U	0.005 U	0.0375	0.005 U	0.001 U	27.7660

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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
29-87	04/21/88	2	0.02 U	0.0100 U	0.0224	0.0069 U	0.005 U	0.14	133.3178
29-87	08/08/88	3	0.02 U	0.0100 U	0.8355	0.0084	0.005 U	NR	98.9360
29-87	10/26/88	4	0.02 U	0.0134	0.0569	0.0166	0.005 U	NR	93.6233
65-86	05/13/87	1	0.2 U	0.0100 U	0.0063 U	0.0154	0.0050 U	NR	20.9975
65-86	05/28/87	2	0.2 U	0.0100 U	0.0063 U	0.0086	0.024	NR	20.0700
65-86	07/16/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
65-86	09/09/87	3	0.02 U	0.0100 U	0.0202	0.4065	0.001 J	NR	26.1863
65-86	10/19/87	4	DRY						
65-86	02/29/88	1	0.02 U	0.0100 U	0.0063 U	0.0387	0.005 U	0.1 U	21.9367
65-86	04/18/88	2	0.02 U	0.0100 U	0.0102	0.0491	0.005 U	0.1 U	16.6175
65-86	07/19/88	3	DRY						
65-86	10/21/88	4	DRY						
62-86	04/09/87	1	0.2 U	0.0128	0.0063 U	0.0069 U	0.005 U	NR	4.1261
62-86	04/29/87	1	0.2 U	0.0100 U	0.0063 U	0.0069 U	0.005 U	NR	4.3072
62-86	05/26/87	2	0.2 U	0.0100 U	0.0103	0.0225	0.021	NR	6.8863
62-86	07/06/87	3	0.02 U	0.0189	0.0166	0.0272	0.005 U	NR	8.1709
62-86	10/14/87	4	0.02 U	0.0453	0.0087	0.1330	0.005 U	0.03 J	8.6855

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
29-87	04/21/88	2	0.4425	0.0002 U	0.0808	1.4097	4.1	0.026	0.0076 U
29-87	08/08/88	3	0.1322	0.0002 U	0.0329	1.1929	3.0	0.253	0.0076 U
29-87	10/26/88	4	0.0465	0.0002 U	0.0491	0.9695	4.5	NR	0.0076 U
65-86	05/13/87	1	0.0145	0.0002 U	0.0220 U	0.0370 U	5.0 U	0.005 U	0.0076 U
65-86	05/28/87	2	0.0092	0.0002 U	0.0220 U	0.0370 U	5.0 U	0.005 U	0.0076 U
65-86	07/16/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
65-86	09/09/87	3	0.1589	0.0002 U	0.0220 U	0.0534	2.7	0.005 U	0.0076 U
65-86	10/19/87	4	DRY						
65-86	02/29/88	1	0.0060	0.0002 U	0.0220 U	0.0370 U	1.3	0.005 U	0.0076 U
65-86	04/18/88	2	0.0051 U	0.0002 U	0.0220 U	0.0370 U	1.0	0.005 U	0.0076 U
65-86	07/19/88	3	DRY						
65-86	10/21/88	4	DRY						
62-86	04/09/87	1	0.0051 U	0.0002 U	0.0220 U	0.0370 U	13.0	0.06	0.0076 U
62-86	04/29/87	1	0.0051 U	0.0002 U	0.0220 U	0.0370 U	10.0	0.04	0.0076 U
62-86	05/26/87	2	0.0051 U	0.0002 U	0.0220 U	0.0370 U	9.5	0.044	0.0076 U
62-86	07/06/87	3	0.0051 U	0.0008	0.0220 U	0.0370	8.2	0.05	0.0076 U
62-86	10/14/87	4	0.0051 U	0.0001 J	0.0220 U	0.1041	9.1	0.027	0.0076 U

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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
29-87	04/21/88	2	405.0172	4.4091	0.01 U	0.0360 U	0.4604
29-87	08/08/88	3	348.9221	3.4270	0.01 U	0.0360 U	2.7735
29-87	10/26/88	4	362.3737	3.7936	0.01 U	0.0360 U	0.2858
65-86	05/13/87	1	74.5395	0.5659	0.0100 U	0.0240 U	0.02 U
65-86	05/28/87	2	72.2864	0.5725	0.01 U	0.0240 U	0.0271
65-86	07/16/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
65-86	09/09/87	3	75.5453	0.7864	0.01 U	0.0240 U	0.0990
65-86	10/19/87	4	DRY				
65-86	02/29/88	1	67.5564	0.6006	0.01 U	0.0240 U	0.0373
65-86	04/18/88	2	55.3275	0.4262	0.01 U	0.0360 U	0.1039
65-86	07/19/88	3	DRY				
65-86	10/21/88	4	DRY				
62-86	04/09/87	1	53.4960	0.4131	0.01 U	0.0240 U	0.05
62-86	04/29/87	1	58.5839	0.3812	0.01 U	0.0240 U	0.02 U
62-86	05/26/87	2	56.0170	0.3969	0.01 U	0.0240 U	0.0200 U
62-86	07/06/87	3	60.8007	0.4878	0.01 U	0.0240 U	0.0200 U
62-86	10/14/87	4	51.3986	0.3823	0.01 U	0.0240 U	0.0200 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
62-86	02/17/88	1	0.0300	0.02 U	0.003 J	0.0412	0.005 U	0.001 U	28.6004
62-86	04/13/88	2	0.0381	0.0340 U	0.005 U	0.0358	0.0010 U	0.0050 U	32.9081
62-86	07/14/88	3	0.0341	0.0340 U	0.005 U	0.0404	0.0010 U	0.0050 U	32.9175
62-86	10/20/88	4	0.0626	0.0340 U	0.005 U	0.0499	0.0010 U	0.0050 U	37.0527
62-86	11/14/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
62-86	02/17/88	1	0.02 U	0.0216	0.0063 U	0.0078	0.005 U	0.1 U	9.9492
62-86	04/13/88	2	0.02 U	0.0193	0.0063 U	0.0255	0.005 U	0.1 U	11.5102
62-86	07/14/88	3	0.020 U	0.0229	0.0063 U	0.0409	0.005 U	NR	11.2686
62-86	10/20/88	4	0.02 U	0.0231	0.0276	0.0396	0.005 U	NR	12.4129
62-86	11/14/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
62-86	02/17/88	1	0.0051 U	0.0002 U	0.0220 U	0.0539	5.9	0.062	0.0076 U
62-86	04/13/88	2	0.0051	0.0002 U	0.0220 U	0.0485	4.2	0.071	0.0076 U
62-86	07/14/88	3	0.0051 U	0.0002* U	0.0220 U	0.0370 U	4.1	0.041	0.0076 U
62-86	10/20/88	4	0.0051 U	0.0002 U	0.0220 U	0.0370 U	4.8	0.044	0.0076N U
62-86	11/14/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
62-86	02/17/88	1	49.7036	0.4234	0.01 U	0.0240 U	0.0200 U
62-86	04/13/88	2	47.0577	0.4104	0.01 U	0.0360 U	0.0200 U
62-86	07/14/88	3	53.1023	0.4450	0.010 U	0.0360 U	0.0291
62-86	10/20/88	4	54.8659	0.5031	0.01 U	0.0360 U	0.0918
62-86	11/14/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
44-87	11/14/87	4	DRY				
44-87	02/22/88	1	DRY				
44-87	04/18/88	2	DRY				
44-87	07/20/88	3	DRY				
44-87	10/26/88	4	DRY				
63-86	07/06/87	3	DRY				
63-86	10/14/87	4	DRY				
63-86	02/17/88	1	DRY				
63-86	04/13/88	2	DRY				
63-86	07/18/88	3	DRY				
63-86	10/21/88	4	DRY				
64-86	04/29/87	1	438	38.0	1.28	168	162
64-86	05/28/87	2	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
64-86	07/16/87	3	742	44.0	0.99	133	306
64-86	10/12/87	4	DRY				
64-86	02/17/88	1	616	54.1	0.18	168	235

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
64-86	04/11/88	2	593	49.7	0.56	180	213
64-86	07/13/88	3	DRY				
64-86	10/21/88	4	DRY				
15-87	09/10/87	3	453	35.2	7.6	66	260
15-87	09/11/87	3	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
15-87	10/07/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
15-87	10/08/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
15-87	10/08/87	4	487	56.7	9.1	15.5	261
15-87	10/08/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
15-87	02/29/88	1	456	58.8	3.88	24.6	138
15-87	04/20/88	2	437	48.1	4.82	25.8	244
15-87	08/09/88	3	DRY				
15-87	10/31/88		DRY				
29-87	10/28/87	4	2661	611	0.34	850	261
29-87	10/28/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
29-87	02/29/88	1	3219	819	0.74	891	138
29-87	04/21/88	2	2979	624	0.55	1157	238

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
29-87	08/08/88	3	2425 J	531 J	0.02 U	999	254 J
29-87	10/26/88	4	2289	533	0.62	996	247
65-86	05/13/87	1	444	43.7	0.20 U	89.0	234
65-86	05/28/87	2	498	46.2	0.20 U	103	269
65-86	07/16/87	3	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
65-86	09/09/87	3	655	64.0	0.20 U	190	306
65-86	10/19/87	4	DRY				
65-86	02/29/88	1	529	62.0	0.08	116	134
65-86	04/18/88	2	427	47.9	0.06	148	185
65-86	07/19/88	3	DRY				
65-86	10/21/88	4	DRY				
62-86	04/09/87	1	274	28.0	2.30	60.0	67.5
62-86	04/29/87	1	286	26.9	2.60	90.0	124
62-86	05/26/87	2	295	25.5	3.4	48.0	164
62-86	07/06/87	3	280	102	2.3	23.0	157
62-86	10/14/87	4	303	27.3	2.70	48.0	178
62-86	02/17/88	1	275	29.7	1.60	39.0	172

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
62-86	04/13/88	2	302	26.8	2.89	57.7	134
62-86	07/14/88	3	283 J	30.2	2.99 J	57.6 J	151 J
62-86	10/20/88	4	328	71.0	7.41	54.1	164
62-86	11/14/88	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Gross Alpha PCI/L	(MDA)	Gross Beta PCI/L	(MDA)	Strontium 89, 90 PCI/L	(MDA)	Plutonium 239, 240 PCI/L	(MDA)
44-87	11/14/87	4	DRY							
44-87	02/22/88	1	DRY							
44-87	04/18/88	2	DRY							
44-87	07/20/88	3	DRY							
44-87	10/26/88	4	DRY							
63-86	07/06/87	3	DRY							
63-86	10/14/87	4	DRY							
63-86	02/17/88	1	DRY							
63-86	04/13/88	2	DRY							
63-86	07/18/88	3	DRY							
63-86	10/21/88	4	DRY							
64-86	04/29/87	1	See total radiochemistry.							
64-86	05/28/87	2	***							
64-86	07/16/87	3	***							
64-86	10/12/87	4	DRY							
64-86	02/17/88	1	10 ± 8		-2 ± 12		NR		0.00 ± 0.22	
64-86	04/11/88	2	6 ± 8	17	5 ± 16	38	NR		0.00 ± 0.05	0.19

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Americium 241 PCI/L	(MDA)	Tritium PCI/L	(MDA)	Total Uranium PCI/L
44-87	11/14/87	4	DRY				
44-87	02/22/88	1	DRY				
44-87	04/18/88	2	DRY				
44-87	07/20/88	3	DRY				
44-87	10/26/88	4	DRY				
63-86	07/06/87	3	DRY				
63-86	10/14/87	4	DRY				
63-86	02/17/88	1	DRY				
63-86	04/13/88	2	DRY				
63-86	07/18/88	3	DRY				
63-86	10/21/88	4	DRY				
64-86	04/29/87	1	See total radiochemistry.				
64-86	05/28/87	2	***				
64-86	07/16/87	3	***				
64-86	10/12/87	4	DRY				
64-86	02/17/88	1	0.00 ± 0.13		<220		2.9
64-86	04/11/88	2	NR		<220	220	5.5

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Gross Alpha PCI/L	(MDA)	Gross Beta PCI/L	(MDA)	Strontium 89, 90 PCI/L	(MDA)	Plutonium 239, 240 PCI/L	(MDA)
64-86	07/13/88	3	DRY							
64-86	10/21/88	4	DRY							
15-87	09/10/87	3	46 ± 33		37 ± 41		NR		NR	
15-87	09/11/87	3	NR		NR		NR		0.522 ± 0.117	
15-87	10/07/87	4	***							
15-87	10/08/87	4	***							
15-87	10/08/87	4	27 ± 22		24 ± 42		NR		0.00 ± .16	
15-87	10/08/87	4	NR		NR		NR		0.036 ± 0.063	
15-87	02/29/88	1	14 ± 7		-5 ± 17		NR		0.00 ± 0.19	
15-87	04/20/88	2	-2 ± 5	12	-8 ± 14	34	NR		0.00 ± 0.05	0.13
15-87	08/09/88	3	DRY							
15-87	10/31/88		DRY							
29-87	10/28/87	4	23 ± 38		34 ± 49		NR		NR	
29-87	10/28/87	4	***							
29-87	02/29/88	1	40 ± 50		33 ± 11		NR		NR	
29-87	04/21/88	2	32 ± 13		28 ± 17		NR		0.02 ± 0.05	0.16
29-87	08/08/88	3	20 ± 7		1 ± 6	16	NR		0.00 ± 0.04	0.13
29-87	10/26/88	4	Data not yet received							

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Americium 241 PCI/L	(MDA)	Tritium PCI/L	(MDA)	Total Uranium PCI/L
64-86	07/13/88	3	DRY				
64-86	10/21/88	4	DRY				
15-87	09/10/87	3	NR		<460		0.0
15-87	09/11/87	3	0.831 ± 0.148		NR		5.7
15-87	10/07/87	4	***				
15-87	10/08/87	4	***				
15-87	10/08/87	4	0.00 ± .25		<500		1.7
15-87	10/08/87	4	0.039 ± 0.049		NR		3.6
15-87	02/29/88	1	0.00 ± 0.10		<210		2.3
15-87	04/20/88	2	0.00 ± 0.16	0.75	<210		2.0
15-87	08/09/88	3	DRY				
15-87	10/31/88		DRY				
29-87	10/28/87	4	NR		<460		0.0
29-87	10/28/87	4	***				
29-87	02/29/88	1	0.06 ± 0.27		<210		23.0
29-87	04/21/88	2	0.00 ± 0.16	0.58	<200		26.0
29-87	08/08/88	3	0.00 ± 0.09	0.39	<210		23.0
29-87	10/26/88	4	Data not yet received				

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Gross Alpha PCI/L	(MDA)	Gross Beta PCI/L	(MDA)	Strontium 89, 90 PCI/L	(MDA)	Plutonium 239, 240 PCI/L	(MDA)
65-86	05/13/87	1	See total radiochemistry.							
65-86	05/28/87	2	See total radiochemistry.							
65-86	07/16/87	3	***							
65-86	09/09/87	3	15 ± 19	29	23 ± 27	66	2.0		-.03 ± .16	2.9
65-86	10/19/87	4	DRY							
65-86	02/29/88	1	4 ± 9		-4 ± 17		NR		0.00 ± 0.25	
65-86	04/18/88	2	10 ± 6		7 ± 10	22	NR		0.02 ± 0.06	0.15
65-86	07/19/88	3	DRY							
65-86	10/21/88	4	DRY							
62-86	04/09/87	1	See total radiochemistry.							
62-86	04/29/87	1	See total radiochemistry.							
62-86	05/26/87	2	See total radiochemistry.							
62-86	07/06/87	3	22 ± 22	33	44 ± 45	76	<1.0		.06 ± .71	0.6
62-86	10/14/87	4	13 ± 5		11 ± 10	19	<1.0		.04 ± .09	.44
62-86	02/17/88	1	14 ± 5		1 ± 12		NR		0.00 ± 0.18	
62-86	04/13/88	2	13 ± 8	13	24 ± 18	39	NR		0.05 ± 0.06	0.48
62-86	07/14/88	3	5 ± 1		6 ± 1		NR		0.00 ± 0.11	
62-86	10/20/88	4	Data not yet received							
62-86	11/14/88	4	***							

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

903-PAD ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Americium 241 PCI/L	(MDA)	Tritium PCI/L	(MDA)	Total Uranium PCI/L
65-86	05/13/87	1	See total radiochemistry.				
65-86	05/28/87	2	See total radiochemistry.				
65-86	07/16/87	3	***				
65-86	09/09/87	3	.02 ± .32	0.4	<509		5.8
65-86	10/19/87	4	DRY				
65-86	02/29/88	1	0.00 ± 0.20		<210		9.5
65-86	04/18/88	2	0.00 ± 0.16	0.84	<200		5.1
65-86	07/19/88	3	DRY				
65-86	10/21/88	4	DRY				
62-86	04/09/87	1	See total radiochemistry.				
62-86	04/29/87	1	See total radiochemistry.				
62-86	05/26/87	2	See total radiochemistry.				
62-86	07/06/87	3	NR		<493		7.5
62-86	10/14/87	4	0.00 ± .03	1.0	<520		7.0
62-86	02/17/88	1	0.00 ± 0.13		<200		1.0
62-86	04/13/88	2	0.00 ± 0.16	0.48	<200	200	7.3
62-86	07/14/88	3	0.00 ± 0.17		220		7.2
62-86	10/20/88	4	Data not yet received				
62-86	11/14/88	4	***				

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

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
02-71	03/11/87	1	720	239	5.00	145	147
02-71	03/11/87	1	710	244	5.40	134	139
02-71	04/09/87	1	733	164	4.70	150	144
02-71	05/21/87	2	863	230	1.50	250	159
02-71	07/02/87	3	956	269	5.6	165	158
02-71	10/08/87	4	1245	358	3.60	263	151
02-71	10/08/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
02-71	02/25/88	1	1247	363	1.93	278	81.0
02-71	04/20/88	2	1473	436	5.03	328	159
02-71	07/25/88	3	1627 J	573 J	1.68 J	44.3	162 J
02-71	10/31/88	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Gross Alpha PCI/L	(MDA)	Gross Beta PCI/L	(MDA)	Strontium 89, 90 PCI/L	(MDA)	Plutonium 239, 240 PCI/L	(MDA)
09-87	06/19/87	2	***							
09-87	10/12/87	4	14 ± 18		27 ± 44		NR		.08 ± .10	
09-87	10/12/87	4	***							
09-87	02/25/88	1	2 ± 4		3 ± 12		NR		0.00 ± 0.35	
09-87	04/19/88	2	5 ± 5	8	9 ± 9	19	NR		0.00 ± 0.05	0.17
09-87	08/09/88	3	1 ± 1	3	-2 ± 1	4	NR		NR	
09-87	10/26/88	4	Data not yet received							
45-87	11/23/87	4	32 ± 9		113 ± 13		<1.0		.00 ± .12	.56
45-87	11/23/87	4	***							
45-87	02/25/88	1	9 ± 5		29 ± 11		NR		0.00 ± 0.18	
45-87	04/18/88	2	7 ± 8	14	21 ± 15	32	NR		0.00 ± 0.03	0.15
45-87	07/21/88	3	2 ± 1		14 ± 2		NR		0.00 ± 0.04	
45-87	10/17/88	4	Data not yet received							
62-86	04/09/87	1	See total radiochemistry.							
62-86	04/29/87	1	See total radiochemistry.							
62-86	05/26/87	2	See total radiochemistry.							
62-86	07/06/87	3	22 ± 22	33	44 ± 45	76	<1.0		.06 ± .71	0.6
62-86	10/14/87	4	13 ± 5		11 ± 10	19	<1.0		.04 ± .09	.44

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Americium 241 PCI/L	(MDA)	Tritium PCI/L	(MDA)	Total Uranium PCI/L
09-87	06/19/87	2	***				
09-87	10/12/87	4	0.00 ± .06		510 ± 290		1.0
09-87	10/12/87	4	***				
09-87	02/25/88	1	NR		350 ± 80		0.0
09-87	04/19/88	2	0.04 ± 0.24	1.2	250 ± 90		1.4
09-87	08/09/88	3	NR		370 ± 100		0.0
09-87	10/26/88	4	Data not yet received				
45-87	11/23/87	4	0.0 ± 1.4	6.9	<220		4.1
45-87	11/23/87	4	***				
45-87	02/25/88	1	NR		<200		3.9
45-87	04/18/88	2	0.10 ± 0.16	0.81	<200		3.0
45-87	07/21/88	3	0.00 ± 0.12		210		2.1
45-87	10/17/88	4	Data not yet received				
62-86	04/09/87	1	See total radiochemistry.				
62-86	04/29/87	1	See total radiochemistry.				
62-86	05/26/87	2	See total radiochemistry.				
62-86	07/06/87	3	NR		<493		7.5
62-86	10/14/87	4	0.00 ± .03	1.0	<520		7.0

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Gross Alpha PCI/L	(MDA)	Gross Beta PCI/L	(MDA)	Strontium 89, 90 PCI/L	(MDA)	Plutonium 239, 240 PCI/L	(MDA)
62-86	02/17/88	1	14 ± 5		1 ± 12		NR		0.00 ± 0.18	
62-86	04/13/88	2	13 ± 8	13	24 ± 18	39	NR		0.05 ± 0.06	0.48
62-86	07/14/88	3	5 ± 1		6 ± 1		NR		0.00 ± 0.11	
62-86	10/20/88	4	Data not yet received							
62-86	11/14/88	4	***							
16-87	09/10/87	3	14 ± 24		23 ± 40		NR		NR	
16-87	09/15/87	3	14 ± 24		23 ± 40		NR		NR	
16-87	10/16/87	4	48 ± 27		17 ± 39		NR		.05 ± .09	
16-87	10/16/87	4	***							
16-87	02/29/88	1	10 ± 4		12 ± 18		NR		0.00 ± 0.14	
16-87	04/21/88	2	12 ± 4		16 ± 10		NR		0.02 ± 0.04	0.14
16-87	08/09/88	3	2 ± 1	3	0 ± 2	4	NR		0.00 ± 0.04	0.12
16-87	10/31/88	4	Data not yet received							
14-87	08/31/87	3	17 ± 21		23 ± 41		NR		NR	
14-87	10/12/87	4	6 ± 17		16 ± 40		NR		0.00 ± .15	
14-87	10/12/87	4	***							
14-87	02/29/88	1	10 ± 7		19 ± 13		NR		0.00 ± 0.19	
14-87	04/21/88	2	8 ± 4		18 ± 11		NR		0.00 ± 0.03	0.19

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Americium 241 PCI/L	(MDA)	Tritium PCI/L	(MDA)	Total Uranium PCI/L
62-86	02/17/88	1	0.00 ± 0.13		<200		1.0
62-86	04/13/88	2	0.00 ± 0.16	0.48	<200	200	7.3
62-86	07/14/88	3	0.00 ± 0.17		220		7.2
62-86	10/20/88	4	Data not yet received				
62-86	11/14/88	4	***				
16-87	09/10/87	3	NR		<500		0.0
16-87	09/15/87	3	NR		<500		0.0
16-87	10/16/87	4	.01 ± .07		<460		5.9
16-87	10/16/87	4	***				
16-87	02/29/88	1	0.03 ± 0.12		<220		5.8
16-87	04/21/88	2	0.02 ± 0.16	0.51	<210		5.4
16-87	08/09/88	3	0.02 ± 0.09	0.36	<210		0.0
16-87	10/31/88	4	Data not yet received				
14-87	08/31/87	3	NR		<500		0.0
14-87	10/12/87	4	0.00 ± .22		<460		0.0
14-87	10/12/87	4	***				
14-87	02/29/88	1	0.00 ± 0.11		<210		0.1
14-87	04/21/88	2	0.00 ± 0.16	0.64	<200		0.7

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Gross Alpha PCI/L	(MDA)	Gross Beta PCI/L	(MDA)	Strontium 89, 90 PCI/L	(MDA)	Plutonium 239, 240 PCI/L	(MDA)
14-87	08/08/88	3	1 ± 1	3	7 ± 2		NR		0.00 ± 0.04	0.12
14-87	10/26/88	4	Data not yet received							
30-87	01/22/88	4	1 ± 5	10	3 ± 12	23	<1.0		0.00 ± .15	.85
30-87	03/02/88		33 ± 11		4 ± 27		NR		0.00 ± 0.25	
30-87	04/21/88	2	3 ± 5	10	1 ± 10	21	NR		0.00 ± 0.04	0.13
30-87	08/08/88	3	2 ± 1	3	-2 ± 1	4	NR		0.00 ± 0.04	0.09
30-87	08/09/88	3	-1 ± 1	3	-1 ± 1	4	NR		0.00 ± 0.04	0.14
30-87	10/26/88	4	Data not yet received							
30-87	10/27/88	4	Data not yet received							
12-87	08/31/87	3	121 ± 48		47 ± 45		NR		NR	
12-87	02/25/88	1	47 ± 12		46 ± 16		NR		NR	
12-87	04/20/88	2	52 ± 14		57 ± 20		NR		0.00 ± 0.04	0.17
12-87	07/25/88	3	37 ± 4		22 ± 3		NR		0.00 ± 0.08	0.23
12-87	10/31/88		DRY							
11-87	09/16/87	3	***							
11-87	09/16/87	3	28 ± 24		8 ± 40		NR		NR	
11-87	09/21/87	3	NR		NR		NR		0.199 ± 0.072	
11-87	10/12/87	4	DRY							

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Americium 241 PCI/L	(MDA)	Tritium PCI/L	(MDA)	Total Uranium PCI/L
14-87	08/08/88	3	0.03 ± 0.09	0.56	<210		2.3
14-87	10/26/88	4	Data not yet received				
30-87	01/22/88	4	.17 ± .12	.43	<200		0.5
30-87	03/02/88		0.05 ± 0.13		<220		0.0
30-87	04/21/88	2	0.01 ± 0.16	0.83	<210		1.1
30-87	08/08/88	3	0.00 ± 0.09	0.48	<210		1.0
30-87	08/09/88	3	0.00 ± 0.09	0.48	<210		1.3
30-87	10/26/88	4	Data not yet received				
30-87	10/27/88	4	Data not yet received				
12-87	08/31/87	3	NR		NR		0.0
12-87	02/25/88	1	0.00 ± 0.09		<220		62.0
12-87	04/20/88	2	0.01 ± 0.20	0.75	<210		57.0
12-87	07/25/88	3	0.05 ± 0.17	1.2	<210		48.0
12-87	10/31/88		DRY				
11-87	09/16/87	3	***				
11-87	09/16/87	3	NR		<440		0.0
11-87	09/21/87	3	0.060 ± 0.050		NR		16.1
11-87	10/12/87	4	DRY				

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Gross Alpha PCI/L	(MDA)	Gross Beta PCI/L	(MDA)	Strontium 89, 90 PCI/L	(MDA)	Plutonium 239, 240 PCI/L	(MDA)
11-87	02/17/88	1	15 ± 5		-1 ± 11		NR		0.00 ± 0.20	
11-87	04/13/88	2	***							
11-87	08/08/88	3	***							
11-87	10/26/88		DRY							
01-71	03/09/87	1	See total radiochemistry.							
01-71	04/30/87	1	See total radiochemistry.							
01-71	05/01/87	1	See total radiochemistry.							
01-71	05/21/87	2	See total radiochemistry.							
01-71	07/02/87	3	3 ± 26	48	18 ± 39	70	2.6		NR	
01-71	10/14/87	4	6 ± 4	6	2 ± 9	18	<1.0		0.00 ± .07	.55
01-71	02/25/88	1	5 ± 4		12 ± 11		NR		0.00 ± 0.18	
01-71	04/18/88	2	5 ± 5	8	14 ± 11	24	NR		0.01 ± 0.03	0.30
01-71	07/25/88	3	12 ± 2		6 ± 2		NR		0.00 ± 0.08	0.28
01-71	07/26/88	3	10 ± 2		2 ± 2	4	NR		0.00 ± 0.08	0.31
01-71	10/31/88	4	Data not yet received							
01-71	11/01/88	4	Data not yet received							
02-71	03/11/87	1	See total radiochemistry.							
02-71	03/11/87	1	See total radiochemistry.							
02-71	04/09/87	1	See total radiochemistry.							

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Americium 241 PCI/L	(MDA)	Tritium PCI/L	(MDA)	Total Uranium PCI/L
11-87	02/17/88	1	0.00 ± 0.12		<220		3.1
11-87	04/13/88	2	***				
11-87	08/08/88	3	***				
11-87	10/26/88		DRY				
01-71	03/09/87	1	See total radiochemistry.				
01-71	04/30/87	1	See total radiochemistry.				
01-71	05/01/87	1	See total radiochemistry.				
01-71	05/21/87	2	See total radiochemistry.				
01-71	07/02/87	3	-.04 ± 1.50	3.00	<515		10.4
01-71	10/14/87	4	0.00 ± .43	1.5	<460		3.7
01-71	02/25/88	1	0.00 ± 0.18		<200		3.7
01-71	04/18/88	2	0.02 ± 0.19	0.78	<210		3.7
01-71	07/25/88	3	0.10 ± 0.17	1.2	<210		7.6
01-71	07/26/88	3	0.00 ± 0.17	0.81	<210		7.2
01-71	10/31/88	4	Data not yet received				
01-71	11/01/88	4	Data not yet received				
02-71	03/11/87	1	See total radiochemistry.				
02-71	03/11/87	1	See total radiochemistry.				
02-71	04/09/87	1	See total radiochemistry.				

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Gross Alpha PCI/L	(MDA)	Gross Beta PCI/L	(MDA)	Strontium 89, 90 PCI/L	(MDA)	Plutonium 239, 240 PCI/L	(MDA)
02-71	05/21/87	2	See total radiochemistry.							
02-71	07/02/87	3	16 ± 22	36	-19 ± 36	73	<1.0		NR	
02-71	10/08/87	4	23 ± 6		10 ± 10	18	<1.0		0.00 ± 0.15	.46
02-71	10/08/87	4	NR		NR		NR		-0.022 ± 0.055	
02-71	02/25/88	1	9 ± 17		-12 ± 59		NR		0.00 ± 0.17	
02-71	04/20/88	2	20 ± 8		25 ± 17	38	NR		0.00 ± 0.03	0.16
02-71	07/25/88	3	37 ± 6		22 ± 6		NR		0.00 ± 0.08	0.26
02-71	10/31/88	4	***							

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Americium 241 PCI/L	(MDA)	Tritium PCI/L	(MDA)	Total Uranium PCI/L
02-71	05/21/87	2	See total radiochemistry.				
02-71	07/02/87	3	NR		<515		18.8
02-71	10/08/87	4	0.00 ± 0.02	.31	<460		13.2
02-71	10/08/87	4	-0.009 ± 0.041		NR		22.3
02-71	02/25/88	1	0.00 ± 0.33		<200		12.9
02-71	04/20/88	2	0.00 ± 0.18	0.68	<210		33.0
02-71	07/25/88	3	0.06 ± 0.17	1.6	<220		43.0
02-71	10/31/88	4	***				

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

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Chloro methane ug/l	Bromo methane ug/l	Vinyl Chloride ug/l	Chloro ethane ug/l	Methylene Chloride ug/l	Acetone ug/l	Carbon Disulfide ug/l
21-87	02/09/89	1	DRY						
21-87	05/03/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U
17-87	02/07/89	1	10 U R	10 U	10 U R	10 U	5 U	10 U	5 U
17-87	05/03/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U
35-86	02/09/89	1	10 U	10 U	520	10 U	5 U	10 U	5 U
35-86	02/09/89	1	10 U	10 U	520	10 U	5 U	10 U	5 U
35-86	05/03/89	2	10 U	10 U	470	10 U	5 U	10 U	5 U
43-86	02/07/89	1	DRY						
43-86	05/04/89	2	DRY						
19-87	02/09/89	1	DRY						
19-87	05/04/89	2	DRY						
33-86	02/09/89	1	DRY						
33-86	05/04/89	2	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	1,1-Di-chloro ethene ug/l	1,1-Di-chloro ethane ug/l	Total-1,2-Dichloro ethene ug/l	Chloroform ug/l	1,2-Di-chloro ethane ug/l	2-Butanone ug/l	1,1,1-Tri chloro ethane ug/l
21-87	02/09/89	1	DRY						
21-87	05/03/89	2	5 U	5 U	5 U	5 U	5 U	10 U	5 U
17-87	02/07/89	1	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
17-87	05/03/89	2	5 U	5 U	5 U	4 J	5 U	10 U	5 U
35-86	02/09/89	1	5 U	40 J	5 U	5 U	5 U	10 U R	5 U
35-86	02/09/89	1	5 U	39 J	5 U	5 U	5 U	10 U R	5 U
35-86	05/03/89	2	13	59	3 J	5 U	5 U	10 U	5 U
43-86	02/07/89	1	DRY						
43-86	05/04/89	2	DRY						
19-87	02/09/89	1	DRY						
19-87	05/04/89	2	DRY						
33-86	02/09/89	1	DRY						
33-86	05/04/89	2	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Carbon Tetra chloride ug/l	Vinyl Acetate ug/l	Bromo dichloro methane ug/l	1,2-Di-chloro propane ug/l	Cis-1,3-Dichloro propene ug/l	Trichloro ethene ug/l	Dibromo chloro methane ug/l
21-87	02/09/89	1	DRY						
21-87	05/03/89	2	5 U	10 U R	5 U	5 U	5 U	5 U	5 U
17-87	02/07/89	1	71	10 U	5 U	5 U	5 U	21	5 U
17-87	05/03/89	2	47 J	10 U R	5 U	5 U	5 U	17	5 U
35-86	02/09/89	1	5 U	10 U	5 U	5 U	5 U	5 U	5 U
35-86	02/09/89	1	5 U	10 U	5 U	5 U	5 U	5 U	5 U
35-86	05/03/89	2	5 U	10 U R	5 U	5 U	5 U	11	5 U
43-86	02/07/89	1	DRY						
43-86	05/04/89	2	DRY						
19-87	02/09/89	1	DRY						
19-87	05/04/89	2	DRY						
33-86	02/09/89	1	DRY						
33-86	05/04/89	2	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	1,1,2-Tri chloro ethane ug/l	Benzene ug/l	Trans-1,3-Dichloro propene ug/l	2-Chloro ethylvinyl ether ug/l	Bromoform ug/l	4-Methyl-2-penta none ug/l	2-Hexanone ug/l
21-87	02/09/89	1	DRY						
21-87	05/03/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
17-87	02/07/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
17-87	05/03/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
35-86	02/09/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
35-86	02/09/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
35-86	05/03/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
43-86	02/07/89	1	DRY						
43-86	05/04/89	2	DRY						
19-87	02/09/89	1	DRY						
19-87	05/04/89	2	DRY						
33-86	02/09/89	1	DRY						
33-86	05/04/89	2	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Tetra chloro ethene ug/l	1,1,2,2-Tetrachloro ethane ug/l	Toluene ug/l	Chloro benzene ug/l	Ethyl benzene ug/l	Styrene ug/l	Total Xylenes ug/l
21-87	02/09/89	1	DRY						
21-87	05/03/89	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U
17-87	02/07/89	1	140	5 U	5 U	5 U	5 U	5 U	5 U
17-87	05/03/89	2	160 R	5 U	5 U	5 U	5 U	5 U	5 U
35-86	02/09/89	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
35-86	02/09/89	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
35-86	05/03/89	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U
43-86	02/07/89	1	DRY						
43-86	05/04/89	2	DRY						
19-87	02/09/89	1	DRY						
19-87	05/04/89	2	DRY						
33-86	02/09/89	1	DRY						
33-86	05/04/89	2	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Chloro methane ug/l	Bromo methane ug/l	Vinyl Chloride ug/l	Chloro ethane ug/l	Methylene Chloride ug/l	Acetone ug/l	Carbon Disulfide ug/l
36-86	02/09/89	1	DRY						
36-86	05/04/89	2	DRY						
24-87	02/15/89	1	DRY						
24-87	05/09/89	2	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	1,1-Di-chloro ethene ug/l	1,1-Di-chloro ethane ug/l	Total-1,2-Dichloro ethene ug/l	Chloroform ug/l	1,2-Di-chloro ethane ug/l	2-Butanone ug/l	1,1,1-Tri chloro ethane ug/l
36-86	02/09/89	1	DRY						
36-86	05/04/89	2	DRY						
24-87	02/15/89	1	DRY						
24-87	05/09/89	2	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Carbon Tetra chloride ug/l	Vinyl Acetate ug/l	Bromo dichloro methane ug/l	1,2-Di-chloro propane ug/l	Cis-1,3-Dichloro propene ug/l	Trichloro ethene ug/l	Dibromo chloro methane ug/l
36-86	02/09/89	1	DRY						
36-86	05/04/89	2	DRY						
24-87	02/15/89	1	DRY						
24-87	05/09/89	2	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	1,1,2-Tri chloro ethane ug/l	Benzene ug/l	Trans-1,3- Dichloro propene ug/l	2-Chloro ethylvinyl ether ug/l	Bromoform ug/l	4-Methyl- 2-penta none ug/l	2-Hexanone ug/l
36-86	02/09/89	1	DRY						
36-86	05/04/89	2	DRY						
24-87	02/15/89	1	DRY						
24-87	05/09/89	2	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Tetra chloro ethene ug/l	1,1,2,2-Tetrachloro ethane ug/l	Toluene ug/l	Chloro benzene ug/l	Ethyl benzene ug/l	Styrene ug/l	Total Xylenes ug/l
36-86	02/09/89	1	DRY						
36-86	05/04/89	2	DRY						
24-87	02/15/89	1	DRY						
24-87	05/09/89	2	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
21-87	10/29/87	4	DRY						
21-87	03/07/88	1	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
21-87	05/02/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
21-87	08/10/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
21-87	11/08/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
17-87	11/05/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
17-87	11/06/87	4	0.0306	NR	NR	0.1587	NR	NR	93.1877
17-87	03/03/88	1	0.0386	0.02 U	0.005 U	0.1539	0.005 U	0.001 U	112.4856
17-87	04/28/88	2	0.0315	0.0340 U	0.005 U	0.1113	0.0010 U	0.0050 U	100.2637
17-87	05/09/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
17-87	08/15/88	3	0.0290 U	0.0340 U	0.005 U	0.1194	0.0010 U	0.0050 U	108.9453
17-87	11/04/88	4	0.0348	0.0340 U	0.005 U	0.1392	0.0010 U	0.0050 U	116.4230
35-86	03/17/87	1	0.0290 U	0.06 U	0.01 U	0.0610	0.005 U	0.005 U	135.3189
35-86	06/02/87	2	0.0290 U	0.06 U	0.01 U	0.0461	0.005 U	0.005 U	81.1221
35-86	07/28/87	3	0.1061	0.02 U	0.005 U	0.1152	0.005 U	0.0005 J	144.6914
35-86	08/26/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
21-87	10/29/87	4	DRY						
21-87	03/07/88	1	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
21-87	05/02/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
21-87	08/10/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
21-87	11/08/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
17-87	11/05/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
17-87	11/06/87	4	NR	0.0109	0.4235	0.0523	NR	NR	13.3333
17-87	03/03/88	1	0.020 U	0.0100 U	0.4122	0.0229	0.005 U	0.1 U	12.7983
17-87	04/28/88	2	0.02 U	0.0100 U	0.0243	0.0120	0.005 U	0.1 U	11.0176
17-87	05/09/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
17-87	08/15/88	3	0.02 U	0.0100 U	0.0491	0.0227	0.004J*	NR	10.0232
17-87	11/04/88	4	0.02 U	0.0100 U	0.0311	0.0115	0.005 U	NR	10.1223
35-86	03/17/87	1	0.2 U	0.0100 U	0.0063 U	0.1039	0.0050 U	NR	30.6949
35-86	06/02/87	2	0.2 U	0.0100 U	0.0084	0.0206	0.005 U	NR	25.0285
35-86	07/28/87	3	0.02 U	0.0100 U	0.0097	0.1100	0.005 U	NR	29.8413
35-86	08/26/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
21-87	10/29/87	4	DRY						
21-87	03/07/88	1	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
21-87	05/02/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
21-87	08/10/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
21-87	11/08/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
17-87	11/05/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
17-87	11/06/87	4	1.2694	NR	0.0220 U	0.6874	NR	NR	0.0076 U
17-87	03/03/88	1	0.1831	0.0002 U	0.0220 U	0.5210	7.0	0.005 U	0.0076 U
17-87	04/28/88	2	0.1274	0.0002 U	0.0220 U	0.2815	5.2	0.005 U	0.0076 U
17-87	05/09/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
17-87	08/15/88	3	0.0979	0.0002 U	0.0220 U	0.2888	3.9	0.005 U	0.0076 U
17-87	11/04/88	4	0.0424	0.0002 U	0.0220 U	0.0767	3.4	0.005 U	0.0076 U
35-86	03/17/87	1	3.8078	0.0002 U	0.0220 U	0.0434	5.0 U	0.005 U	0.0076 U
35-86	06/02/87	2	0.4866	0.0002 U	0.0220 U	0.0370 U	5.0 U	0.005 U	0.0076 U
35-86	07/28/87	3	3.4848	0.0002 U	0.0220 U	0.0370 U	1.5	0.005 U	0.0076 U
35-86	08/26/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
21-87	10/29/87	4	DRY				
21-87	03/07/88	1	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
21-87	05/02/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
21-87	08/10/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
21-87	11/08/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
17-87	11/05/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
17-87	11/06/87	4	28.5863	0.5982	NR	0.0240 U	2.5552
17-87	03/03/88	1	22.3610	0.5903	0.010 U	0.0240 U	1.5316
17-87	04/28/88	2	17.8911	0.4885	0.01 U	0.0360 U	0.1802
17-87	05/09/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
17-87	08/15/88	3	24.3427	0.4557	0.01 U	0.0360 U	0.1400
17-87	11/04/88	4	24.3438	0.5284	0.01 U	0.0360 U	0.1056
35-86	03/17/87	1	207.7142	0.8188	0.01 U	0.0240 U	0.04
35-86	06/02/87	2	172.5748	0.6088	0.01 U	0.0240 U	0.0200 U
35-86	07/28/87	3	210.0584	0.8092	0.01 U	0.0241	0.0443
35-86	08/26/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				

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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
35-86	10/16/87	4	0.0625	0.02 U	0.003 J	0.0871	0.002 J	0.001 U	130.6754
35-86	10/16/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
35-86	03/02/88	1	0.0486	0.02 U	0.004 J	0.0821	0.005 U	0.001 U	143.1915
35-86	05/02/88	2	0.0335	0.0340 U	0.005 U	0.0703	0.0010 U	0.0050 U	140.6056
35-86	08/10/88	3	0.0290 U	0.0483	0.005 U	0.0824	0.0010 U	0.0050 U	145.4237
35-86	11/04/88	4	0.0290 U	0.0518	0.003 J	0.0859	0.0010 U	0.0050 U	146.4198
43-86	03/11/87	1	0.0290 U	0.0600 U	0.01 U	0.0994	0.005 U	0.005 U	90.8264
43-86	06/03/87	2	0.0290 U	0.06 U	0.01 U	0.1065	0.005 U	0.005 U	68.0295
43-86	07/28/87	3	0.0412	0.02 U	0.005 U	0.1602	0.005 U	0.0004 J	94.7105
43-86	08/26/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
43-86	10/19/87	4	DRY						
43-86	03/02/88	1	DRY						
43-86	04/29/88	2	DRY						
43-86	08/10/88	3	DRY						
43-86	11/03/88	4	DRY						
19-87	11/19/87	4	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
35-86	10/16/87	4	0.02 U	0.0266	0.0066	0.5175	0.003 J	0.1 U	29.1030
35-86	10/16/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
35-86	03/02/88	1	0.020 U	0.0100 U	0.0066	0.6891	0.005 U	0.1 U	29.3745
35-86	05/02/88	2	0.02 U	0.0100 U	0.0100	0.5147	0.005 U	NR	33.1548
35-86	08/10/88	3	0.02 U	0.0100 U	0.0067	0.3156	0.005 U	NR	32.9570
35-86	11/04/88	4	0.02 U	0.0100 U	0.0063 U	0.8573	0.005 U	NR	31.7132
43-86	03/11/87	1	0.2 U	0.0100 U	0.0063 U	0.0069 U	0.005 U	NR	10.5382
43-86	06/03/87	2	0.2 U	0.0100 U	0.0063 U	0.0126	0.005 U	NR	6.7585
43-86	07/28/87	3	0.02 U	0.0100 U	0.0063 U	0.0159	0.005 U	NR	7.9498
43-86	08/26/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
43-86	10/19/87	4	DRY						
43-86	03/02/88	1	DRY						
43-86	04/29/88	2	DRY						
43-86	08/10/88	3	DRY						
43-86	11/03/88	4	DRY						
19-87	11/19/87	4	DRY						

NR = Analyte not reported
J = Present below detection limit
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B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
35-86	10/16/87	4	3.9109	0.0002 U	0.0220 U	0.0370 U	0.84	0.005 U	0.0076 U
35-86	10/16/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
35-86	03/02/88	1	4.0113	0.0002 U	0.0220 U	0.0370 U	0.8	0.005 U	0.0076 U
35-86	05/02/88	2	3.9978	0.0002 U	0.022 U	0.0370 U	0.5	0.005 U	0.0076 U
35-86	08/10/88	3	4.1966	0.0002 U	0.0220 U	0.0370 U	0.7	0.005 U	0.0076 U
35-86	11/04/88	4	4.2350	0.0002 U	0.0220 U	0.0370 U	0.5 U	0.005 U	0.0076 U
43-86	03/11/87	1	0.0051 U	0.0002 U	0.0220 U	0.0370 U	5.0 U	0.0050 U	0.0076 U
43-86	06/03/87	2	0.0051 U	0.0002 U	0.0238	0.0370 U	5.0 U	0.005 U	0.0076 U
43-86	07/28/87	3	0.0054	0.0002 U	0.0220 U	0.0370 U	1.3	0.005 U	0.0076 U
43-86	08/26/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
43-86	10/19/87	4	DRY						
43-86	03/02/88	1	DRY						
43-86	04/29/88	2	DRY						
43-86	08/10/88	3	DRY						
43-86	11/03/88	4	DRY						
19-87	11/19/87	4	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
35-86	10/16/87	4	194.2592	0.7870	0.01 U	0.0240 U	0.0276
35-86	10/16/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
35-86	03/02/88	1	183.9421	0.8311	0.010 U	0.0240 U	0.0275
35-86	05/02/88	2	178.2991	0.8031	0.01 U	0.0360 U	0.0200 U
35-86	08/10/88	3	196.2784	0.8015	0.01 U	0.0360 U	0.0200 U
35-86	11/04/88	4	193.4550	0.8984	0.01 U	0.0360 U	0.0244
43-86	03/11/87	1	13.5408	0.4313	0.01 U	0.0240 U	0.04
43-86	06/03/87	2	8.1258	0.3216	0.01 U	0.0240 U	0.0200 U
43-86	07/28/87	3	14.1637	0.3888	0.01 U	0.0240 U	0.0219
43-86	08/26/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
43-86	10/19/87	4	DRY				
43-86	03/02/88	1	DRY				
43-86	04/29/88	2	DRY				
43-86	08/10/88	3	DRY				
43-86	11/03/88	4	DRY				
19-87	11/19/87	4	DRY				

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
19-87	03/03/88	1	DRY						
19-87	04/28/88	2	DRY						
19-87	08/11/88	3	DRY						
19-87	11/07/88	4	DRY						
33-86	09/24/87	3	DRY						
33-86	12/05/87	4	DRY						
33-86	03/07/88	1	DRY						
33-86	05/02/88	2	DRY						
33-86	08/12/88	3	DRY						
33-86	11/08/88	4	DRY						
36-86	04/24/87	1	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
36-86	06/03/87	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
36-86	07/27/87	3	DRY						
36-86	08/26/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
36-86	10/19/87	4	DRY						
36-86	03/07/88	1	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
19-87	03/03/88	1	DRY						
19-87	04/28/88	2	DRY						
19-87	08/11/88	3	DRY						
19-87	11/07/88	4	DRY						
33-86	09/24/87	3	DRY						
33-86	12/05/87	4	DRY						
33-86	03/07/88	1	DRY						
33-86	05/02/88	2	DRY						
33-86	08/12/88	3	DRY						
33-86	11/08/88	4	DRY						
36-86	04/24/87	1	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
36-86	06/03/87	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
36-86	07/27/87	3	DRY						
36-86	08/26/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
36-86	10/19/87	4	DRY						
36-86	03/07/88	1	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
19-87	03/03/88	1	DRY						
19-87	04/28/88	2	DRY						
19-87	08/11/88	3	DRY						
19-87	11/07/88	4	DRY						
33-86	09/24/87	3	DRY						
33-86	12/05/87	4	DRY						
33-86	03/07/88	1	DRY						
33-86	05/02/88	2	DRY						
33-86	08/12/88	3	DRY						
33-86	11/08/88	4	DRY						
36-86	04/24/87	1	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
36-86	06/03/87	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
36-86	07/27/87	3	DRY						
36-86	08/26/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
36-86	10/19/87	4	DRY						
36-86	03/07/88	1	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
19-87	03/03/88	1	DRY				
19-87	04/28/88	2	DRY				
19-87	08/11/88	3	DRY				
19-87	11/07/88	4	DRY				
33-86	09/24/87	3	DRY				
33-86	12/05/87	4	DRY				
33-86	03/07/88	1	DRY				
33-86	05/02/88	2	DRY				
33-86	08/12/88	3	DRY				
33-86	11/08/88	4	DRY				
36-86	04/24/87	1	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
36-86	06/03/87	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
36-86	07/27/87	3	DRY				
36-86	08/26/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
36-86	10/19/87	4	DRY				
36-86	03/07/88	1	DRY				

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
36-86	05/02/88	2	DRY						
36-86	08/11/88	3	DRY						
36-86	11/08/88	4	DRY						
24-87	11/19/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
24-87	11/19/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
24-87	03/03/88	1	DRY						
24-87	05/04/88	2	DRY						
24-87	08/22/88	3	DRY						
24-87	11/17/88		DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
36-86	05/02/88	2	DRY						
36-86	08/11/88	3	DRY						
36-86	11/08/88	4	DRY						
24-87	11/19/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
24-87	11/19/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
24-87	03/03/88	1	DRY						
24-87	05/04/88	2	DRY						
24-87	08/22/88	3	DRY						
24-87	11/17/88		DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
36-86	05/02/88	2	DRY						
36-86	08/11/88	3	DRY						
36-86	11/08/88	4	DRY						
24-87	11/19/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
24-87	11/19/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
24-87	03/03/88	1	DRY						
24-87	05/04/88	2	DRY						
24-87	08/22/88	3	DRY						
24-87	11/17/88		DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
36-86	05/02/88	2	DRY				
36-86	08/11/88	3	DRY				
36-86	11/08/88	4	DRY				
24-87	11/19/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
24-87	11/19/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
24-87	03/03/88	1	DRY				
24-87	05/04/88	2	DRY				
24-87	08/22/88	3	DRY				
24-87	11/17/88		DRY				

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
21-87	10/29/87	4	DRY				
21-87	03/07/88	1	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
21-87	05/02/88	2	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
21-87	08/10/88	3	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
21-87	11/08/88	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
17-87	11/05/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
17-87	11/06/87	4	466	275	0.79	46.7	275
17-87	03/03/88	1	439	42.5	0.97	26.9	166
17-87	04/28/88	2	438	41.2	1.50	28.0	269
17-87	05/09/88	2	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
17-87	08/15/88	3	410 J	37.2 J	1.94 J	83.0	288 J
17-87	11/04/88	4	443	40.0	2.08	57.1	256
35-86	03/17/87	1	952	107	0.20 U	100	642
35-86	06/02/87	2	924	84.1	0.20 U	180	533
35-86	07/28/87	3	1004	83.2	0.20 U	160	565
35-86	08/26/87	3	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
35-86	10/16/87	4	1006	101	0.02 U	125	613

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
35-86	10/16/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
35-86	03/02/88	1	1011	97.0	0.02 U	134	349
35-86	05/02/88	2	973	104	0.02 U	125	533
35-86	08/10/88	3	971 J	95.6 J	0.02 U	143 J	598 J
35-86	11/04/88	4	1003	97.4	0.02 U	170	545
43-86	03/11/87	1	338	51.0	5.1	30.0	179
43-86	06/03/87	2	386	30.8	7.50	30.0	170
43-86	07/28/87	3	409	33.4	7.90	28.0	184
43-86	08/26/87	3	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
43-86	10/19/87	4	DRY				
43-86	03/02/88	1	DRY				
43-86	04/29/88	2	DRY				
43-86	08/10/88	3	DRY				
43-86	11/03/88	4	DRY				
19-87	11/19/87	4	DRY				
19-87	03/03/88	1	DRY				

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
19-87	04/28/88	2	DRY				
19-87	08/11/88	3	DRY				
19-87	11/07/88	4	DRY				
33-86	09/24/87	3	DRY				
33-86	12/05/87	4	DRY				
33-86	03/07/88	1	DRY				
33-86	05/02/88	2	DRY				
33-86	08/12/88	3	DRY				
33-86	11/08/88	4	DRY				
36-86	04/24/87	1	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
36-86	06/03/87	2	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
36-86	07/27/87	3	DRY				
36-86	08/26/87	3	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
36-86	10/19/87	4	DRY				
36-86	03/07/88	1	DRY				
36-86	05/02/88	2	DRY				
36-86	08/11/88	3	DRY				

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
36-86	11/08/88	4	DRY				
24-87	11/19/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
24-87	11/19/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
24-87	03/03/88	1	DRY				
24-87	05/04/88	2	DRY				
24-87	08/22/88	3	DRY				
24-87	11/17/88		DRY				

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Gross Alpha PCI/L	(MDA)	Gross Beta PCI/L	(MDA)	Strontium 89, 90 PCI/L	(MDA)	Plutonium 239, 240 PCI/L	(MDA)
21-87	10/29/87	4	DRY							
21-87	03/07/88	1	***							
21-87	05/02/88	2	***							
21-87	08/10/88	3	***							
21-87	11/08/88	4	***							
17-87	11/05/87	4	***							
17-87	11/06/87	4	9 ± 20		18 ± 41		NR		NR	
17-87	03/03/88	1	10 ± 5		11 ± 9	20	NR		0.00 ± 0.12	0.38
17-87	04/28/88	2	18 ± 4		12 ± 11	24	NR		NR	
17-87	05/09/88	2	***							
17-87	08/15/88	3	3 ± 1		6 ± 2		NR		0.00 ± 0.04	
17-87	11/04/88	4	Data not yet received							
35-86	03/17/87	1	See total radiochemistry.							
35-86	06/02/87	2	See total radiochemistry.							
35-86	07/28/87	3	-3 ± 24	46	7 ± 41	76	1.2		-.32 ± .96	1.7
35-86	08/26/87	3	***							
35-86	10/16/87	4	3 ± 7	12	9 ± 10	19	<1.0		0.00 ± .23	1.6
35-86	10/16/87	4	***							

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Americium 241 PCI/L	(MDA)	Tritium PCI/L	(MDA)	Total Uranium PCI/L
21-87	10/29/87	4	DRY				
21-87	03/07/88	1	***				
21-87	05/02/88	2	***				
21-87	08/10/88	3	***				
21-87	11/08/88	4	***				
17-87	11/05/87	4	***				
17-87	11/06/87	4	NR		NR		0.0
17-87	03/03/88	1	0.0 ± 1.6	4.4	<200		9.3
17-87	04/28/88	2	NR		<200		2.2
17-87	05/09/88	2	***				
17-87	08/15/88	3	0.01 ± 0.07		210		3.5
17-87	11/04/88	4	Data not yet received				
35-86	03/17/87	1	See total radiochemistry.				
35-86	06/02/87	2	See total radiochemistry.				
35-86	07/28/87	3	0.9 ± 6.7	1.0	<478		8.0
35-86	08/26/87	3	***				
35-86	10/16/87	4	0.00 ± .31	.66	<460		4.7
35-86	10/16/87	4	***				

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Gross Alpha PCI/L	(MDA)	Gross Beta PCI/L	(MDA)	Strontium 89, 90 PCI/L	(MDA)	Plutonium 239, 240 PCI/L	(MDA)
35-86	03/02/88	1	16 ± 21	44	27 ± 41	94	NR		0.00 ± 0.50	4.7
35-86	05/02/88	2	6 ± 7	13	-3 ± 16	37	NR		0.02 ± 0.04	0.22
35-86	08/10/88	3	5 ± 3		2 ± 4		NR		0.01 ± 0.04	
35-86	11/04/88	4	Data not yet received							
43-86	03/11/87	1	See total radiochemistry.							
43-86	06/03/87	2	See total radiochemistry.							
43-86	07/28/87	3	5 ± 25	45	-14 ± 42	83	1.2		-.20 ± .85	1.1
43-86	08/26/87	3	***							
43-86	10/19/87	4	DRY							
43-86	03/02/88	1	DRY							
43-86	04/29/88	2	DRY							
43-86	08/10/88	3	DRY							
43-86	11/03/88	4	DRY							
19-87	11/19/87	4	DRY							
19-87	03/03/88	1	DRY							
19-87	04/28/88	2	DRY							
19-87	08/11/88	3	DRY							
19-87	11/07/88	4	DRY							

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Americium 241 PCI/L	(MDA)	Tritium PCI/L	(MDA)	Total Uranium PCI/L
35-86	03/02/88	1	0.00 ± 0.18	0.63	<210		4.6
35-86	05/02/88	2	0.00 ± 0.10	0.45	<210		3.0
35-86	08/10/88	3	0.11 ± 0.08		260 ± 90		3.9
35-86	11/04/88	4	Data not yet received				
43-86	03/11/87	1	See total radiochemistry.				
43-86	06/03/87	2	See total radiochemistry.				
43-86	07/28/87	3	.11 ± .32	0.3	<493		2.9
43-86	08/26/87	3	***				
43-86	10/19/87	4	DRY				
43-86	03/02/88	1	DRY				
43-86	04/29/88	2	DRY				
43-86	08/10/88	3	DRY				
43-86	11/03/88	4	DRY				
19-87	11/19/87	4	DRY				
19-87	03/03/88	1	DRY				
19-87	04/28/88	2	DRY				
19-87	08/11/88	3	DRY				
19-87	11/07/88	4	DRY				

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Gross Alpha PCI/L	(MDA)	Gross Beta PCI/L	(MDA)	Strontium 89, 90 PCI/L	(MDA)	Plutonium 239, 240 PCI/L	(MDA)
33-86	09/24/87	3	DRY							
33-86	12/05/87	4	DRY							
33-86	03/07/88	1	DRY							
33-86	05/02/88	2	DRY							
33-86	08/12/88	3	DRY							
33-86	11/08/88	4	DRY							
36-86	04/24/87	1	***							
36-86	06/03/87	2	***							
36-86	07/27/87	3	DRY							
36-86	08/26/87	3	***							
36-86	10/19/87	4	DRY							
36-86	03/07/88	1	DRY							
36-86	05/02/88	2	DRY							
36-86	08/11/88	3	DRY							
36-86	11/08/88	4	DRY							
24-87	11/19/87	4	***							
24-87	11/19/87	4	***							
24-87	03/03/88	1	DRY							

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Americium 241 PCI/L	(MDA)	Tritium PCI/L	(MDA)	Total Uranium PCI/L
33-86	09/24/87	3	DRY				
33-86	12/05/87	4	DRY				
33-86	03/07/88	1	DRY				
33-86	05/02/88	2	DRY				
33-86	08/12/88	3	DRY				
33-86	11/08/88	4	DRY				
36-86	04/24/87	1	***				
36-86	06/03/87	2	***				
36-86	07/27/87	3	DRY				
36-86	08/26/87	3	***				
36-86	10/19/87	4	DRY				
36-86	03/07/88	1	DRY				
36-86	05/02/88	2	DRY				
36-86	08/11/88	3	DRY				
36-86	11/08/88	4	DRY				
24-87	11/19/87	4	***				
24-87	11/19/87	4	***				
24-87	03/03/88	1	DRY				

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Gross Alpha PCI/L	(MDA)	Gross Beta PCI/L	(MDA)	Strontium 89, 90 PCI/L	(MDA)	Plutonium 239, 240 PCI/L	(MDA)
24-87	05/04/88	2	DRY							
24-87	08/22/88	3	DRY							
24-87	11/17/88		DRY							

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

MOUND-AREA ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Americium 241 PCI/L	(MDA)	Tritium PCI/L	(MDA)	Total Uranium PCI/L
24-87	05/04/88	2	DRY				
24-87	08/22/88	3	DRY				
24-87	11/17/88		DRY				

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

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Chloro methane ug/l	Bromo methane ug/l	Vinyl Chloride ug/l	Chloro ethane ug/l	Methylene Chloride ug/l	Acetone ug/l	Carbon Disulfide ug/l
23-87	02/07/89	1	10 U R	10 U	10 U R	10 U	5 U	10 U	5 U
23-87	05/03/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U
22-87	02/09/89	1	10 U	10 U	10 U	10 U	5 U	10 U	5 U
22-87	05/03/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U
18-87	02/07/89	1	10 U R	10 U	10 U R	10 U	5 U	10 U	5 U
18-87	05/03/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U
20-87	02/07/89	1	10 U	10 U	10 U	10 U	5 J	10 U	5 U
20-87	05/03/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U
34-86	02/09/89	1	10 U	10 U	10 U	10 U	5 U	10 U	5 U
34-86	05/03/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U
25-87	02/15/89	1	10 U	10 U	10 U	10 U	5 U	10 U	5 U
25-87	05/08/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	1,1-Di-chloro ethene ug/l	1,1-Di-chloro ethane ug/l	Total-1,2-Dichloro ethene ug/l	Chloroform ug/l	1,2-Di-chloro ethane ug/l	2-Butanone ug/l	1,1,1-Tri chloro ethane ug/l
23-87	02/07/89	1	5 U	5 U	5 U	2 J	5 U	10 U R	5 U
23-87	05/03/89	2	5 U	5 U	5 U	5 U	5 U	10 U	5 U
22-87	02/09/89	1	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
22-87	05/03/89	2	5 U	5 U	5 U	5 U	5 U	10 U	5 U
18-87	02/07/89	1	5 U	5 U	5 U	2 J	5 U	10 U R	5 U
18-87	05/03/89	2	5 U	5 U	5 U	5 U	5 U	10 U	5 U
20-87	02/07/89	1	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
20-87	05/03/89	2	5 U	5 U	5 U	5 U	5 U	10 U	5 U
34-86	02/09/89	1	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
34-86	05/03/89	2	5 U	5 U	5 U	5 U	5 U	10 U	5 U
25-87	02/15/89	1	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
25-87	05/08/89	2	5 U	5 U	5 U	5 J	5 U	10 U R	5 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Carbon Tetra chloride ug/l	Vinyl Acetate ug/l	Bromo dichloro methane ug/l	1,2-Di-chloro propane ug/l	Cis-1,3-Dichloro propene ug/l	Trichloro ethene ug/l	Dibromo chloro methane ug/l
23-87	02/07/89	1	5 U	10 U	5 U	5 U	5 U	5 U	5 U
23-87	05/03/89	2	5 U	10 U R	5 U	5 U	5 U	5 U	5 U
22-87	02/09/89	1	5 U	10 U	5 U	5 U	5 U	5 U	5 U
22-87	05/03/89	2	5 U	10 U R	5 U	5 U	5 U	5 U	5 U
18-87	02/07/89	1	5 U	10 U	5 U	5 U	5 U	5 U	5 U
18-87	05/03/89	2	5 U	10 U R	5 U	5 U	5 U	5 U	5 U
20-87	02/07/89	1	5 U	10 U	5 U	5 U	5 U	5 U	5 U
20-87	05/03/89	2	5 U	10 U R	5 U	5 U	5 U	5 U	5 U
34-86	02/09/89	1	5 U	10 U	5 U	5 U	5 U	5 U	5 U
34-86	05/03/89	2	5 U	10 U R	5 U	5 U	5 U	5 U	5 U
25-87	02/15/89	1	180	10 U	5 U	5 U	5 U	110	5 U
25-87	05/08/89	2	290	10 U	5 U	5 U	5 U	120	5 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	1,1,2-Tri chloro ethane ug/l	Benzene ug/l	Trans-1,3- Dichloro propene ug/l	2-Chloro ethylvinyl ether ug/l	Bromoform ug/l	4-Methyl- 2-penta none ug/l	2-Hexanone ug/l
23-87	02/07/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
23-87	05/03/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
22-87	02/09/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
22-87	05/03/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
18-87	02/07/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
18-87	05/03/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
20-87	02/07/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
20-87	05/03/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
34-86	02/09/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
34-86	05/03/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
25-87	02/15/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
25-87	05/08/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Tetra chloro ethene ug/l	1,1,2,2-Tetrachloro ethane ug/l	Toluene ug/l	Chloro benzene ug/l	Ethyl benzene ug/l	Styrene ug/l	Total Xylenes ug/l
23-87	02/07/89	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
23-87	05/03/89	2	74 R	5 U	5 U	5 U	5 U	5 U	5 U
22-87	02/09/89	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
22-87	05/03/89	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U
18-87	02/07/89	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
18-87	05/03/89	2	57 R	5 U	5 U	5 U	5 U	5 U	5 U
20-87	02/07/89	1	3 J	5 U	5 U	5 U	5 U	5 U	5 U
20-87	05/03/89	2	370E R	5 U	5 U	5 U	5 U	5 U	5 U
34-86	02/09/89	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
34-86	05/03/89	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U
25-87	02/15/89	1	360	5 U	5 U	5 U	5 U	5 U	5 U
25-87	05/08/89	2	840	5 U	5 U	5 U	5 U	5 U	5 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Chloro methane ug/l	Bromo methane ug/l	Vinyl Chloride ug/l	Chloro ethane ug/l	Methylene Chloride ug/l	Acetone ug/l	Carbon Disulfide ug/l
01-74	02/09/89	1	10 U	10 U	10 U	10 U	5 U	10 U	5 U
01-74	05/03/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	1,1-Di-chloro ethene ug/l	1,1-Di-chloro ethane ug/l	Total-1,2-Dichloro ethene ug/l	Chloroform ug/l	1,2-Di-chloro ethane ug/l	2-Butanone ug/l	1,1,1-Tri chloro ethane ug/l
01-74	02/09/89	1	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
01-74	05/03/89	2	5 U	5 U	5 U	5 U	5 U	10 U	5 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Carbon Tetra chloride ug/l	Vinyl Acetate ug/l	Bromo dichloro methane ug/l	1,2-Di-chloro propane ug/l	Cis-1,3-Dichloro propene ug/l	Trichloro ethene ug/l	Dibromo chloro methane ug/l
01-74	02/09/89	1	5 U	10 U	5 U	5 U	5 U	1800	5 U
01-74	05/03/89	2	5 U	10 U R	5 U	5 U	5 U	1800	5 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	1,1,2-Tri chloro ethane ug/l	Benzene ug/l	Trans-1,3- Dichloro propene ug/l	2-Chloro ethylvinyl ether ug/l	Bromoform ug/l	4-Methyl- 2-penta none ug/l	2-Hexanone ug/l
01-74	02/09/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
01-74	05/03/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Tetra chloro ethene ug/l	1,1,2,2-Tetrachloro ethane ug/l	Toluene ug/l	Chloro benzene ug/l	Ethyl benzene ug/l	Styrene ug/l	Total Xylenes ug/l
01-74	02/09/89	1	33000	5 U	5 U	5 U	5 U	5 U	5 U
01-74	05/03/89	2	45000	5 U	5 U	5 U	5 U	5 U	5 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
23-87	09/10/87	3	0.0417	0.02 U	0.005 U	0.1842	0.005 U	0.001 U	112.9795
23-87	09/11/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
23-87	10/21/87	4	0.1725	NR	NR	0.1632	NR	NR	94.3186
23-87	10/21/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
23-87	10/21/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
23-87	03/02/88	1	0.0969	0.02 U	0.005 U	0.1949	0.005 U	0.001 U	130.1240
23-87	04/28/88	2	0.0290 U	0.0340 U	0.005 U	0.1625	0.0010 U	0.0050 U	115.0052
23-87	05/09/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
23-87	08/10/88	3	0.0290 U	0.0340 U	0.005 U	0.1538	0.0010 U	0.0050 U	115.5801
23-87	11/04/88	4	0.0290 U	0.0340 U	0.005 U	0.1693	0.0010 U	0.0050 U	120.6239
22-87	03/07/88	1	0.0406	0.02 U	0.004 J	0.0594	0.005 U	0.001 U	30.2374
22-87	05/02/88	2	0.0376	0.0340 U	0.005 U	0.0343	0.0010 U	0.0050 U	34.1294
22-87	08/10/88	3	0.0344	0.0340 U	0.003 J	0.0363	0.0010 U	0.0050 U	44.8694
22-87	11/09/88	4	0.0476	0.0340 U	0.003 J	0.0411	0.0010 U	0.0050 U	49.0811
18-87	10/27/87	4	DRY						
18-87	03/07/88	1	0.0879	0.02 U	0.003 J	0.1084	0.005 U	0.001 U	12.3260
18-87	05/02/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
23-87	09/10/87	3	0.02 U	0.0100 U	0.0063 U	0.0069 U	0.005 U	0.01 J	14.4141
23-87	09/11/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
23-87	10/21/87	4	NR	0.0676	0.0063 U	0.1942	NR	NR	12.8861
23-87	10/21/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
23-87	10/21/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
23-87	03/02/88	1	0.020 U	0.0100 U	0.0063 U	0.0333	0.005	0.1 U	13.8849
23-87	04/28/88	2	0.02 U	0.0100 U	0.0063 U	0.0135	0.005 U	0.1 U	13.4011
23-87	05/09/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
23-87	08/10/88	3	0.02 U	0.0100 U	0.0153	0.0184	0.005 U	NR	12.9021
23-87	11/04/88	4	0.02 U	0.0100 U	0.0063 U	0.0238	0.005 U	NR	12.9893
22-87	03/07/88	1	0.020 U	0.0115	0.0063 U	0.0230	0.005 U	0.1 U	6.4239
22-87	05/02/88	2	0.02 U	0.0100 U	0.0122	0.0423	0.005 U	NR	7.8109
22-87	08/10/88	3	0.02 U	0.0100 U	0.0179	0.0151	0.005 U	NR	10.9422
22-87	11/09/88	4	NR	0.0100 U	0.0063 U	0.0080	NR	NR	12.5151
18-87	10/27/87	4	DRY						
18-87	03/07/88	1	0.020 U	0.0118	0.0379	0.0631	0.005 U	0.1 U	1.1415
18-87	05/02/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
23-87	09/10/87	3	0.2832	0.0002 U	0.0220 U	0.0370 U	4.6	0.005 U	0.0076 U
23-87	09/11/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
23-87	10/21/87	4	0.2422	NR	0.0220 U	0.0370 U	NR	NR	0.0076 U
23-87	10/21/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
23-87	10/21/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
23-87	03/02/88	1	0.1289	0.0002 U	0.0220 U	0.0370 U	1.7	0.005 U	0.0076 U
23-87	04/28/88	2	0.0720	0.0002 U	0.0220 U	0.0558	1.6	0.005 U	0.0076 U
23-87	05/09/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
23-87	08/10/88	3	0.0112	0.0002 U	0.0220 U	0.0370 U	2.0	0.005 U	0.0076 U
23-87	11/04/88	4	0.0178	0.0002 U	0.0220 U	0.0370 U	1.2	0.005 U	0.0076 U
22-87	03/07/88	1	0.0319	0.0002 U	0.0843	0.0372	14	0.005 U	0.0076 U
22-87	05/02/88	2	0.0439	0.0002 U	0.0764	0.0370 U	13.3	0.005 U	0.0076 U
22-87	08/10/88	3	0.0372	0.0002 U	0.0657	0.0370 U	15	0.005 U	0.0076 U
22-87	11/09/88	4	0.0426	0.0002 U	0.0582	0.0370 U	9.2	0.005 U	0.0076 U
18-87	10/27/87	4	DRY						
18-87	03/07/88	1	0.1154	0.0002 U	0.0286	0.0661	0.8	0.003 J	0.0103
18-87	05/02/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
23-87	09/10/87	3	12.9332	0.6216	0.01	0.0240 U	0.0822
23-87	09/11/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
23-87	10/21/87	4	8.8855	0.5299	NR	0.0282	0.0301
23-87	10/21/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
23-87	10/21/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
23-87	03/02/88	1	9.6792	0.6205	0.010 U	0.0240 U	0.0200 U
23-87	04/28/88	2	8.0978	0.5278	0.01 U	0.0360 U	0.0221
23-87	05/09/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
23-87	08/10/88	3	9.5551	0.5112	0.01 U	0.0360 U	0.0540
23-87	11/04/88	4	10.9816	0.6030	0.01 U	0.0360 U	0.0237
22-87	03/07/88	1	88.6237	0.4659	0.010 U	0.0261	0.0339
22-87	05/02/88	2	100.1605	0.4906	0.01 U	0.0360 U	0.0200 U
22-87	08/10/88	3	126.4044	0.6219	0.01 U	0.0360 U	0.0309
22-87	11/09/88	4	135.7162	0.7709	NR	0.0360 U	0.0200 U
18-87	10/27/87	4	DRY				
18-87	03/07/88	1	22.8139	0.1107	0.010 U	0.0240 U	0.0279
18-87	05/02/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				

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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
18-87	08/15/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
18-87	11/04/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
20-87	10/26/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
20-87	10/26/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
20-87	03/03/88	1	0.2556	0.02 U	0.007	0.0246	0.005 U	0.001 U	18.8844
20-87	05/09/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
20-87	08/11/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
20-87	11/08/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
34-86	03/17/87	1	0.0290 U	0.06 U	0.01 U	0.0288	0.005 U	0.005 U	241.5299
34-86	04/06/87	1	0.0290 U	0.06 U	0.0100 U	0.0878	0.005 U	0.0050 U	236.2398
34-86	06/02/87	2	0.0334	0.06 U	0.01 U	0.0247	0.005 U	0.005 U	235.2524
34-86	07/28/87	3	0.0524	0.02 U	0.005 U	0.0354	0.005 U	0.001 U	242.3112
34-86	10/16/87	4	0.0290 U	0.02 U	0.002 J	0.0308	0.005 U	0.001 U	209.5497
34-86	10/16/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
34-86	03/02/88	1	0.1729	0.02 U	0.004 J	0.1216	0.005 U	0.001 U	18.6393
34-86	05/02/88	2	0.0290 U	0.0340 U	0.005 U	0.0271	0.0010 U	0.0050 U	207.6940

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
18-87	08/15/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
18-87	11/04/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
20-87	10/26/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
20-87	10/26/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
20-87	03/03/88	1	0.020 U	0.0100 U	0.0070	0.0344	0.005 U	0.1 U	0.0342
20-87	05/09/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
20-87	08/11/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
20-87	11/08/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
34-86	03/17/87	1	0.2 U	0.0100 U	0.0063 U	0.6726	0.005 U	NR	62.6727
34-86	04/06/87	1	0.2 U	0.0100 U	0.0063 U	0.4421	0.0050 U	NR	65.0379
34-86	06/02/87	2	0.2 U	0.0114	0.0096	1.0040	0.005 U	NR	72.6015
34-86	07/28/87	3	0.02 U	0.0100 U	0.0063 U	1.5312	0.005 U	NR	72.7323
34-86	10/16/87	4	0.02 U	0.0120	0.0063 U	1.4362	0.005 U	0.2	67.4890
34-86	10/16/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
34-86	03/02/88	1	0.020 U	0.0100 U	0.0092	0.1353	0.005 U	0.1 U	2.0699
34-86	05/02/88	2	0.02 U	0.0100 U	0.0124	1.5495	0.005 U	NR	92.1996

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
18-87	08/15/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
18-87	11/04/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
20-87	10/26/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
20-87	10/26/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
20-87	03/03/88	1	0.0051 U	0.0002 U	0.0570	0.0370 U	28	0.004 J	0.0076 U
20-87	05/09/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
20-87	08/11/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
20-87	11/08/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
34-86	03/17/87	1	0.0718	0.0002 U	0.0220 U	0.0370 U	8.6	0.005 U	0.0076 U
34-86	04/06/87	1	0.1019	0.0002 U	0.0220 U	0.0370 U	8.0	0.005 U	0.0076 U
34-86	06/02/87	2	0.0159	0.0002 U	0.0220 U	0.0370 U	8.2	0.005 U	0.0076 U
34-86	07/28/87	3	0.1205	0.0002 U	0.0220 U	0.0370 U	3.2	0.005 U	0.0076 U
34-86	10/16/87	4	0.1445	0.0001 J	0.0220 U	0.0370 U	10.9	0.005 U	0.0076 U
34-86	10/16/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
34-86	03/02/88	1	0.0070	0.0002 U	0.0509	0.0370 U	3.1	0.005 U	0.0076 U
34-86	05/02/88	2	0.0892	0.0002 U	0.0220 U	0.0370 U	8.9	0.005 U	0.0076 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
18-87	08/15/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
18-87	11/04/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
20-87	10/26/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
20-87	10/26/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
20-87	03/03/88	1	84.4416	0.4473	0.010 U	0.0377	0.0252
20-87	05/09/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
20-87	08/11/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
20-87	11/08/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
34-86	03/17/87	1	227.7501	2.8304	0.01 U	0.0240 U	0.06
34-86	04/06/87	1	220.6902	2.8040	0.0100 U	0.0240 U	0.08
34-86	06/02/87	2	221.9862	2.8541	0.01 U	0.0240 U	0.0200 U
34-86	07/28/87	3	231.0510	2.9499	0.01 U	0.245	0.02004
34-86	10/16/87	4	221.9791	2.7239	0.01 U	0.0240 U	0.0200 U
34-86	10/16/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
34-86	03/02/88	1	76.7449	0.2005	0.010 U	0.0240 U	0.0340
34-86	05/02/88	2	232.1001	2.8410	0.01 U	0.0360 U	0.0200 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Chloro methane ug/l	Bromo methane ug/l	Vinyl Chloride ug/l	Chloro ethane ug/l	Methylene Chloride ug/l	Acetone ug/l	Carbon Disulfide ug/l
09-87	01/25/89	1	10 U R	10 U	10 U R	10 U	5 U	10 U	5 U
09-87	05/01/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U
09-87	05/01/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U
45-87	01/23/89	1	10 U R	10 U	10 U R	10 U	5 U	10 U	5 U
45-87	04/17/89	2	10 U	10 U	10 U	10 U	5 U	10 U R	5 U
62-86	04/17/89	2	10 U	10 U	10 U	10 U	5 U	10 U R	5 U
62-86	06/10/89		10 U	10 U	10 U	10 U	5 U	2 JB	5 U
62-86	07/27/89		Data not yet received						
16-87	02/07/89	1	10 U R	10 U	10 U R	10 U	5 U	10 U	5 U
16-87	05/01/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U
14-87	01/25/89	1	10 U R	10 U	10 U R	10 U	5 U	10 U	5 U
14-87	01/25/89	1	10 U R	10 U	10 U R	10 U	5 U	10 U	5 U
14-87	04/24/89	2	10 U	10 U	10 U	10 U	6 U	10 U	5 U
30-87	02/01/89	1	10 U R	10 U	10 U R	10 U	5 U	10 U	5 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	1,1-Di-chloro ethene ug/l	1,1-Di-chloro ethane ug/l	Total-1,2-Dichloro ethene ug/l	Chloroform ug/l	1,2-Di-chloro ethane ug/l	2-Butanone ug/l	1,1,1-Tri chloro ethane ug/l
09-87	01/25/89	1	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
09-87	05/01/89	2	5 U	5 U	5 U	5 U	5 U	10 U	5 U
09-87	05/01/89	2	5 U	5 U	5 U	5 U	5 U	10 U	5 U
45-87	01/23/89	1	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
45-87	04/17/89	2	5 U	5 U	5 U	5 U	5 U	10 U	5 U
62-86	04/17/89	2	5 U	5 U	5 U	5 U	5 U	10 U	5 U
62-86	06/10/89		5 U	5 U	5 U	5 U	5 U	10 U	5 U
62-86	07/27/89		Data not yet received						
16-87	02/07/89	1	5 U	5 U	5 U	2	5 U	10 U R	5 U
16-87	05/01/89	2	5 U	5 U	5 U	5 U	5 U	10 U	5 U
14-87	01/25/89	1	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
14-87	01/25/89	1	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
14-87	04/24/89	2	5 U	5 U	5 U	16	5 U	10 U	5 U
30-87	02/01/89	1	5 U	5 U	5 U	2	5 U	10 U R	5 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Carbon Tetra chloride ug/l	Vinyl Acetate ug/l	Bromo dichloro methane ug/l	1,2-Di-chloro propane ug/l	Cis-1,3-Dichloro propene ug/l	Trichloro ethene ug/l	Dibromo chloro methane ug/l
09-87	01/25/89	1	5 U	10 U	5 U	5 U	5 U	5 U	5 U
09-87	05/01/89	2	5 U	10 U R	5 U	5 U	5 U	5 U	5 U
09-87	05/01/89	2	5 U	10 U R	5 U	5 U	5 U	5 U	5 U
45-87	01/23/89	1	5 U	10 U	5 U	5 U	5 U	5 U	5 U
45-87	04/17/89	2	5 U	10 U R	5 U	5 U	5 U	5 U	5 U
62-86	04/17/89	2	5 U	10 U R	5 U	5 U	5 U	5 U	5 U
62-86	06/10/89		1 J	10 U	5 U	5 U	5 U	5 U	5 U
62-86	07/27/89		Data not yet received						
16-87	02/07/89	1	5 U	10 U	5 U	5 U	5 U	5 U	5 U
16-87	05/01/89	2	5 U	10 U R	5 U	5 U	5 U	5 U	5 U
14-87	01/25/89	1	120	10 U	5 U	5 U	5 U	58	5 U
14-87	01/25/89	1	150	10 U	5 U	5 U	5 U	54	5 U
14-87	04/24/89	2	160 J	10 U R	5 U	5 U	5 U	68	5 U
30-87	02/01/89	1	5 U	10 U	5 U	5 U	5 U	5 U	5 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	1,1,2-Tri chloro ethane ug/l	Benzene ug/l	Trans-1,3-Dichloro propene ug/l	2-Chloro ethylvinyl ether ug/l	Bromoform ug/l	4-Methyl-2-penta none ug/l	2-Hexanone ug/l
09-87	01/25/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
09-87	05/01/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
09-87	05/01/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
45-87	01/23/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
45-87	04/17/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
62-86	04/17/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
62-86	06/10/89		5 U	5 U	5 U	NR	5 U	10 U	10 U
62-86	07/27/89		Data not yet received						
16-87	02/07/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
16-87	05/01/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
14-87	01/25/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
14-87	01/25/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
14-87	04/24/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
30-87	02/01/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U

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
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Tetra chloro ethene ug/l	1,1,2,2-Tetrachloro ethane ug/l	Toluene ug/l	Chloro benzene ug/l	Ethyl benzene ug/l	Styrene ug/l	Total Xylenes ug/l
09-87	01/25/89	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
09-87	05/01/89	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U
09-87	05/01/89	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U
45-87	01/23/89	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
45-87	04/17/89	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U
62-86	04/17/89	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U
62-86	06/10/89		5 U	5 U	5 U	5 U	5 U	5 U	5 U
62-86	07/27/89		Data not yet received						
16-87	02/07/89	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
16-87	05/01/89	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U
14-87	01/25/89	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
14-87	01/25/89	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
14-87	04/24/89	2	4 J	5 U	5 U	5 U	5 U	5 U	5 U
30-87	02/01/89	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Chloro methane ug/l	Bromo methane ug/l	Vinyl Chloride ug/l	Chloro ethane ug/l	Methylene Chloride ug/l	Acetone ug/l	Carbon Disulfide ug/l
30-87	04/24/89	2	10 U	10 U	10 U	10 U	6 U	10 U	5 U
12-87	02/07/89	1	DRY						
12-87	05/02/89	2	DRY						
11-87	02/07/89	1	DRY						
11-87	05/02/89	2	DRY						
01-71	02/01/89	1	10 U	10 U	10 U R	10 U	5 U	10 U	5 U
01-71	05/01/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U
02-71	02/01/89	1	10 U	10 U	10 U R	10 U	5 U	10 U	5 U
02-71	05/01/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	1,1-Di-chloro ethene ug/l	1,1-Di-chloro ethane ug/l	Total-1,2-Dichloro ethene ug/l	Chloroform ug/l	1,2-Di-chloro ethane ug/l	2-Butanone ug/l	1,1,1-Tri chloro ethane ug/l
30-87	04/24/89	2	5 U	5 U	5 U	5 U	5 U	10 U	5 U
12-87	02/07/89	1	DRY						
12-87	05/02/89	2	DRY						
11-87	02/07/89	1	DRY						
11-87	05/02/89	2	DRY						
01-71	02/01/89	1	5 U	5 U	5 U	330	5 U	10 U R	5 U
01-71	05/01/89	2	5 J	5 U	5 U	200	5 U	10 U	5 U
02-71	02/01/89	1	5 U	11	5 U	5 U	5 U	10 U R	5 U
02-71	05/01/89	2	5 U	8	5 U	7	5 U	10 U	5 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Carbon Tetra chloride ug/l	Vinyl Acetate ug/l	Bromo dichloro methane ug/l	1,2-Di-chloro propane ug/l	Cis-1,3-Dichloro propene ug/l	Trichloro ethene ug/l	Dibromo chloro methane ug/l
30-87	04/24/89	2	5 U	10 U R	5 U	5 U	5 U	5 U	5 U
12-87	02/07/89	1	DRY						
12-87	05/02/89	2	DRY						
11-87	02/07/89	1	DRY						
11-87	05/02/89	2	DRY						
01-71	02/01/89	1	600	10 U	5 U	5 U	5 U	290	5 U
01-71	05/01/89	2	690 J	10 U R	5 U	5 U	5 U	230	5 U
02-71	02/01/89	1	5 U	10 U	5 U	5 U	5 U	1200	5 U
02-71	05/01/89	2	5 U	10 U R	5 U	5 U	5 U	440	5 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	1,1,2-Tri chloro ethane ug/l	Benzene ug/l	Trans-1,3-Dichloro propene ug/l	2-Chloro ethylvinyl ether ug/l	Bromoform ug/l	4-Methyl-2-penta none ug/l	2-Hexanone ug/l
30-87	04/24/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
12-87	02/07/89	1	DRY						
12-87	05/02/89	2	DRY						
11-87	02/07/89	1	DRY						
11-87	05/02/89	2	DRY						
01-71	02/01/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
01-71	05/01/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
02-71	02/01/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
02-71	05/01/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Tetra chloro ethene ug/l	1,1,2,2-Tetrachloro ethane ug/l	Toluene ug/l	Chloro benzene ug/l	Ethyl benzene ug/l	Styrene ug/l	Total Xylenes ug/l
30-87	04/24/89	2	5 U	5 U	6 U	5 U	5 U	5 U	5 U
12-87	02/07/89	1	DRY						
12-87	05/02/89	2	DRY						
11-87	02/07/89	1	DRY						
11-87	05/02/89	2	DRY						
01-71	02/01/89	1	78	5 U	5 U	5 U	5 U	5 U	5 U
01-71	05/01/89	2	69	5 U	5 U	5 U	5 U	5 U	5 U
02-71	02/01/89	1	16	5 U	5 U	5 U	5 U	5 U	5 U
02-71	05/01/89	2	8	5 U	5 U	5 U	5 U	5 U	5 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
09-87	06/19/87	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
09-87	10/12/87	4	0.0439	0.02 U	0.005 U	0.1173	0.005 U	0.0005 J	68.6964
09-87	10/12/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
09-87	02/25/88	1	0.0290 U	0.02 U	0.005 U	0.0830	0.005 U	0.001 U	71.9505
09-87	04/19/88	2	0.0517	0.0340 U	0.005 U	0.0872	0.0015	0.0050 U	102.5523
09-87	08/09/88	3	0.0290 U	0.0340 U	0.005 U	0.0753	0.0010 U	0.0050 U	79.3751
09-87	10/26/88	4	0.0352	0.0340 U	0.005 U	0.0948	0.0010 U	0.0050 U	79.6691
45-87	11/23/87	4	0.1306	0.02 U	0.004 J	0.1658	0.005 U	0.0058	19.7961
45-87	11/23/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
45-87	02/25/88	1	0.0357	0.02 U	0.003 J	0.0829	0.005 U	0.001 U	26.9376
45-87	04/18/88	2	0.0360	0.0340 U	0.005 U	0.0569	0.0010 U	0.0050 U	29.3511
45-87	07/21/88	3	0.0290 U	0.0340 U	0.005 U	0.0380	0.0010 U	0.0050 U	34.3743
45-87	10/17/88	4	0.0353	0.0340 U	0.005 U	0.0701	0.0010 U	0.0050 U	37.0820
62-86	04/09/87	1	0.1455	0.0600 U	0.01 U	0.0239	0.005 U	0.005 U	37.1320
62-86	04/29/87	1	0.0839	0.0600 U	0.01 U	0.0191	0.005 U	0.005 U	32.5061
62-86	05/26/87	2	0.0647	0.06 U	0.01 U	0.0322	0.005 U	0.005 U	38.7927

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
09-87	06/19/87	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
09-87	10/12/87	4	0.02 U	0.0208	0.0063 U	0.0728	0.005 U	0.01 J	6.0421
09-87	10/12/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
09-87	02/25/88	1	0.02 U	0.0100 U	0.0063 U	0.0069 U	0.005 U	0.1 U	6.7475
09-87	04/19/88	2	0.02 U	0.0100 U	0.0113	0.0261	0.005 U	0.1 U	9.2144
09-87	08/09/88	3	0.02 U	0.0104	0.0241	0.0227	0.005 U	NR	6.5729
09-87	10/26/88	4	0.02 U	0.0100 U	0.0063 U	0.0112	0.005 U	NR	6.2279
45-87	11/23/87	4	0.02 U	0.0100 U	0.0133	0.0899	0.005 U	NR	2.3647
45-87	11/23/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
45-87	02/25/88	1	0.02 U	0.0100 U	0.0063	0.0286	0.005 U	0.06 J	5.2957
45-87	04/18/88	2	0.02 U	0.0109	0.0096	0.1218	0.005 U	0.06 J	7.0306
45-87	07/21/88	3	0.020 U	0.0100 U	0.0063 U	0.0264	0.005 U	NR	8.7134
45-87	10/17/88	4	0.02 U	0.0100 U	0.0063 U	0.0310	0.005 U	NR	9.0033
62-86	04/09/87	1	0.2 U	0.0128	0.0063 U	0.0069 U	0.005 U	NR	4.1261
62-86	04/29/87	1	0.2 U	0.0100 U	0.0063 U	0.0069 U	0.005 U	NR	4.3072
62-86	05/26/87	2	0.2 U	0.0100 U	0.0103	0.0225	0.021	NR	6.8863

NR = Analyte not reported
U = Analyzed but not detected
* = Holding time not met
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J = Present below detection limit
B = Present in laboratory blank
N = Batch spike not in 80-120% range
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
09-87	06/19/87	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
09-87	10/12/87	4	0.0051 U	0.0002	0.0220 U	0.0370 U	0.98	0.005 U	0.0076 U
09-87	10/12/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
09-87	02/25/88	1	0.0051 U	0.0002 U	0.0220 U	0.0370 U	0.7	0.002 J	0.0076 U
09-87	04/19/88	2	0.0051 U	0.0002 U	0.0220 U	0.0370 U	0.8	0.005 U	0.0076 U
09-87	08/09/88	3	0.0084	0.0002 U	0.0220 U	0.0370 U	0.9	0.005 U	0.0076 U
09-87	10/26/88	4	0.0051 U	0.0002 U	0.0220 U	0.0370 U	1.6	NR	0.0076 U
45-87	11/23/87	4	0.0493	0.0002	0.0650	0.0370 U	NR	0.003 J	0.0076 U
45-87	11/23/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
45-87	02/25/88	1	0.1277	0.0002 U	0.0582	0.0370 U	30	0.004 J	0.00764
45-87	04/18/88	2	0.2899	0.0002 U	0.0567	0.0388	20.0	0.004 J	0.0076 U
45-87	07/21/88	3	0.3414	NR	0.0270	0.0370 U	15.0	0.005 U	0.0076 U
45-87	10/17/88	4	0.4031	0.0002 U	0.0220 U	0.0370 U	11.4	0.005 U	0.0076 U
62-86	04/09/87	1	0.0051 U	0.0002 U	0.0220 U	0.0370 U	13.0	0.06	0.0076 U
62-86	04/29/87	1	0.0051 U	0.0002 U	0.0220 U	0.0370 U	10.0	0.04	0.0076 U
62-86	05/26/87	2	0.0051 U	0.0002 U	0.0220 U	0.0370 U	9.5	0.044	0.0076 U

NR = Analyte not reported
U = Analyzed but not detected
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Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
09-87	06/19/87	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
09-87	10/12/87	4	8.7941	0.2590	0.01 U	0.0240 U	0.0320
09-87	10/12/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
09-87	02/25/88	1	6.9667	0.2675	0.01 U	0.0240 U	0.0200 U
09-87	04/19/88	2	9.7888	0.3559	0.01 U	0.0360 U	0.0428
09-87	08/09/88	3	10.0601	0.2664	0.01 U	0.0360 U	0.0438
09-87	10/26/88	4	9.8898	0.2869	0.01 U	0.0360 U	0.0315
45-87	11/23/87	4	34.6104	0.2063	0.01 U	0.0240 U	0.0229
45-87	11/23/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
45-87	02/25/88	1	60.7991	0.3238	0.01 U	0.0240 U	0.0200 U
45-87	04/18/88	2	60.9966	0.3460	0.01 U	0.0360 U	0.1214
45-87	07/21/88	3	69.9706	0.4038	0.010 U	0.0360 U	0.0200 U
45-87	10/17/88	4	73.7159	0.4934	0.01 U	0.0360 U	0.0346
62-86	04/09/87	1	53.4960	0.4131	0.01 U	0.0240 U	0.05
62-86	04/29/87	1	58.5839	0.3812	0.01 U	0.0240 U	0.02 U
62-86	05/26/87	2	56.0170	0.3969	0.01 U	0.0240 U	0.0200 U

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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
62-86	07/06/87	3	0.0600	0.02 U	0.005 U	0.0356	0.005 U	0.0003 J	35.4258
62-86	10/14/87	4	0.0479	0.02 U	0.005 U	0.0375	0.005 U	0.001 U	27.7660
62-86	02/17/88	1	0.0300	0.02 U	0.003 J	0.0412	0.005 U	0.001 U	28.6004
62-86	04/13/88	2	0.0381	0.0340 U	0.005 U	0.0358	0.0010 U	0.0050 U	32.9081
62-86	07/14/88	3	0.0341	0.0340 U	0.005 U	0.0404	0.0010 U	0.0050 U	32.9175
62-86	10/20/88	4	0.0626	0.0340 U	0.005 U	0.0499	0.0010 U	0.0050 U	37.0527
62-86	11/14/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
16-87	09/10/87	3	0.0290 U	0.02 U	0.005 U	0.0613	0.005 U	0.001 U	26.8178
16-87	09/15/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
16-87	10/16/87	4	0.0876	NR	NR	0.0354	NR	NR	20.5145
16-87	10/16/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
16-87	02/29/88	1	0.0814	0.02 U	0.004 J	0.0786	0.005 U	0.001 U	18.4820
16-87	04/21/88	2	0.0485	0.0340 U	0.003 J	0.0456	0.0010 U	0.0050 U	24.7026
16-87	08/09/88	3	0.0433	0.0340 U	0.005 U	0.0280	0.0010 U	0.0050 U	26.4029
16-87	10/31/88	4	0.0474	0.0340 U	0.005 U	0.0423	0.0010 U	0.0050 U	25.5930
14-87	08/31/87	3	0.5102	0.02 U	0.005 U	0.9321	0.005 U	0.001 U	408.4416

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Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
62-86	07/06/87	3	0.02 U	0.0189	0.0166	0.0272	0.005 U	NR	8.1709
62-86	10/14/87	4	0.02 U	0.0453	0.0087	0.1330	0.005 U	0.03 J	8.6855
62-86	02/17/88	1	0.02 U	0.0216	0.0063 U	0.0078	0.005 U	0.1 U	9.9492
62-86	04/13/88	2	0.02 U	0.0193	0.0063 U	0.0255	0.005 U	0.1 U	11.5102
62-86	07/14/88	3	0.020 U	0.0229	0.0063 U	0.0409	0.005 U	NR	11.2686
62-86	10/20/88	4	0.02 U	0.0231	0.0276	0.0396	0.005 U	NR	12.4129
62-86	11/14/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
16-87	09/10/87	3	0.02 U	0.0100 U	0.0063 U	0.0069 U	0.005 U	0.03 J	1.7309
16-87	09/15/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
16-87	10/16/87	4	NR	0.0278	0.0063 U	0.1371	NR	NR	2.6440
16-87	10/16/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
16-87	02/29/88	1	0.02 U	0.0100 U	0.0074	0.0644	0.005 U	0.05 J	3.5174
16-87	04/21/88	2	0.02 U	0.0100 U	0.0063 U	0.0186	0.005 U	0.1 U	4.7883
16-87	08/09/88	3	0.02 U	0.0114	0.0108	0.0219	0.005 U	NR	4.9487
16-87	10/31/88	4	0.02 U	0.0121	0.0063 U	0.0131	NR	NR	4.9047
14-87	08/31/87	3	0.02 U	0.0399	0.0090	0.0069 U	0.005 U	0.05 J	0.0295

NR = Analyte not reported
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E = Estimated value
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Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
62-86	07/06/87	3	0.0051 U	0.0008	0.0220 U	0.0370	8.2	0.05	0.0076 U
62-86	10/14/87	4	0.0051 U	0.0001 J	0.0220 U	0.1041	9.1	0.027	0.0076 U
62-86	02/17/88	1	0.0051 U	0.0002 U	0.0220 U	0.0539	5.9	0.062	0.0076 U
62-86	04/13/88	2	0.0051	0.0002 U	0.0220 U	0.0485	4.2	0.071	0.0076 U
62-86	07/14/88	3	0.0051 U	0.0002* U	0.0220 U	0.0370 U	4.1	0.041	0.0076 U
62-86	10/20/88	4	0.0051 U	0.0002 U	0.0220 U	0.0370 U	4.8	0.044	0.0076N U
62-86	11/14/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
16-87	09/10/87	3	0.0051 U	0.0002 U	0.0367	0.0370 U	5.6	0.005 U	0.0076 U
16-87	09/15/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
16-87	10/16/87	4	0.0051 U	NR	0.0250	0.0370 U	NR	NR	0.0076 U
16-87	10/16/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
16-87	02/29/88	1	0.0051 U	0.0002 U	0.0295	0.0370 U	8.1	0.002 J	0.0076 U
16-87	04/21/88	2	0.0051 U	0.0002 U	0.0220 U	0.0370 U	4.2	0.004 J	0.0076 U
16-87	08/09/88	3	0.0072	0.0002 U	0.0225	0.0370 U	4.0	0.005 U	0.0076 U
16-87	10/31/88	4	0.0051 U	0.0002 U	0.0228	0.0370 U	4.0	0.005 U	0.0076 U
14-87	08/31/87	3	0.0051 U	0.0002 U	0.0220 U	0.0370 U	31	0.005 U	0.0076 U

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Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
62-86	07/06/87	3	60.8007	0.4878	0.01 U	0.0240 U	0.0200 U
62-86	10/14/87	4	51.3986	0.3823	0.01 U	0.0240 U	0.0200 U
62-86	02/17/88	1	49.7036	0.4234	0.01 U	0.0240 U	0.0200 U
62-86	04/13/88	2	47.0577	0.4104	0.01 U	0.0360 U	0.0200 U
62-86	07/14/88	3	53.1023	0.4450	0.010 U	0.0360 U	0.0291
62-86	10/20/88	4	54.8659	0.5031	0.01 U	0.0360 U	0.0918
62-86	11/14/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
16-87	09/10/87	3	61.3752	0.2202	0.01 U	0.0240 U	0.0200 U
16-87	09/15/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
16-87	10/16/87	4	60.8289	0.2522	NR	0.0256	0.0200 U
16-87	10/16/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
16-87	02/29/88	1	67.6220	0.2834	0.01 U	0.0240 U	0.0200 U
16-87	04/21/88	2	66.4353	0.3042	0.01 U	0.0360 U	0.0200 U
16-87	08/09/88	3	72.4248	0.2867	0.01 U	0.0360 U	0.0200 U
16-87	10/31/88	4	71.7637	0.3337	0.01 U	0.0360 U	0.0242
14-87	08/31/87	3	96.2131	7.7076	0.01 U	0.0240 U	0.0200 U

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* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
14-87	10/12/87	4	1.1972	0.029	0.005 U	0.1196	0.001 J	0.001 U	81.2350
14-87	10/12/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
14-87	02/29/88	1	0.1598	0.02 U	0.005 U	0.0297	0.005 U	0.001 U	7.5573
14-87	04/21/88	2	0.1141	0.0340 U	0.005 U	0.0269	0.0010 U	0.0050 U	6.0019
14-87	08/08/88	3	0.1238	0.0340 U	0.005 U	0.0298	0.0010 U	0.0050 U	7.7025
14-87	10/26/88	4	0.1008	0.0340 U	0.005 U	0.0351	0.0010 U	0.0050 U	10.3618
30-87	01/22/88	4	0.0833	0.02 U	0.040	0.0308	0.005 U	0.001 U	17.5065
30-87	03/02/88		0.0646	0.02 U	0.013	0.0626	0.005 U	0.001 U	16.8116
30-87	04/21/88	2	0.0328	0.0340 U	0.006	0.0534	0.0010 U	0.0050 U	18.9773
30-87	08/08/88	3	0.0290 U	0.0340 U	0.005 U	0.0984	0.0010 U	0.0050 U	19.3281
30-87	08/09/88	3	0.0290 U	0.0340 U	0.005 U	0.0982	0.0010 U	0.0050 U	19.8977
30-87	10/26/88	4	0.0440	0.0340 U	0.002 J	0.1002	0.0010 U	0.0050 U	19.8733
30-87	10/27/88	4	0.0414	0.0340 U	0.002 J	0.1021	0.0010 U	0.0050 U	20.9740
12-87	08/31/87	3	0.0852	0.02 U	0.005 U	0.0843	0.005 U	0.0005 J	35.1950
12-87	02/25/88	1	0.0290 U	0.02 U	0.005 U	0.0434	0.005 U	0.001 U	31.0631
12-87	04/20/88	2	0.0470	0.0340 U	0.005 U	0.0332	0.0010 U	0.0050 U	36.1776
12-87	07/25/88	3	0.0351	0.0340 U	0.005 U	0.0508	0.0010 U	0.0050 U	38.1220

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Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
14-87	10/12/87	4	0.02 U	0.0382	0.0090	0.0599	0.004 J	0.04 J	0.1458
14-87	10/12/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
14-87	02/29/88	1	0.02 U	0.0207	0.0118	0.0366	0.005 U	0.06 J	1.3191
14-87	04/21/88	2	0.02 U	0.0252	0.0064	0.0172	0.005 U	0.06 J	4.0380
14-87	08/08/88	3	0.02 U	0.0100 U	0.0090	0.0131 U	0.005 U	NR	7.5092
14-87	10/26/88	4	0.02 U	0.0232	0.0063 U	0.0120	0.005 U	NR	8.5727
30-87	01/22/88	4	0.02 U	0.0100 U	0.0063 U	0.0414	0.005 U	0.1 U	2.2105
30-87	03/02/88		0.02 U	0.0100 U	0.0063 U	0.0167	0.005 U	0.1 U	1.9955
30-87	04/21/88	2	0.02 U	0.0100 U	0.0063 U	0.0679	0.005 U	0.1 U	2.9272
30-87	08/08/88	3	0.02 U	0.0100 U	0.0063 U	0.0090	0.005 U	NR	3.1945
30-87	08/09/88	3	0.02 U	0.0100 U	0.0063 U	0.0109	0.005 U	NR	3.2862
30-87	10/26/88	4	0.02 U	0.0100 U	0.0063 U	0.0097	0.009	NR	3.3230
30-87	10/27/88	4	0.02 U	0.0100 U	0.0063 U	0.0116	0.005 U	NR	3.4157
12-87	08/31/87	3	0.02 U	0.0100 U	0.0063 U	0.0385	0.005 U	0.13	6.5848
12-87	02/25/88	1	0.02 U	0.0100 U	0.0088	0.0169	0.005 U	0.11	7.1516
12-87	04/20/88	2	0.02 U	0.0100 U	0.0098	0.0811	0.005 U	0.1 U	7.5445
12-87	07/25/88	3	0.02 U	0.0561	0.0076	0.2085	0.005 U	NR	7.8634

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E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
14-87	10/12/87	4	0.0051 U	0.0002 U	0.0220 U	0.0370 U	12.3	0.011	0.0076 U
14-87	10/12/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
14-87	02/29/88	1	0.0051 U	0.0002 U	0.0220 U	0.0370 U	8.0	0.012	0.0076 U
14-87	04/21/88	2	0.0051 U	0.0002 U	0.0220 U	0.0370 U	7.9	0.013	0.0076 U
14-87	08/08/88	3	0.0051 U	0.0002 U	0.0220 U	0.0370 U	6.7	0.014	0.0076 U
14-87	10/26/88	4	0.0051 U	0.0002 U	0.0220 U	0.0370 U	7.3	0.005 U	0.0076 U
30-87	01/22/88	4	0.0060	0.0002 U	0.0220 U	0.0370 U	5.3	0.005 U	0.0076 U
30-87	03/02/88		0.0071	0.0002 U	0.0248	0.0370 U	4.9	0.005 U	0.0076 U
30-87	04/21/88	2	0.0087	0.0002 U	0.0220 U	0.0370 U	3.7	0.005 U	0.0076 U
30-87	08/08/88	3	0.0124	0.0002 U	0.0220 U	0.0370 U	3.1	0.005 U	0.0076 U
30-87	08/09/88	3	0.0124	0.0002 U	0.0220 U	0.0379	3.3	0.005 U	0.0076 U
30-87	10/26/88	4	0.0112	0.0002 U	0.0220 U	0.0370 U	4.0	0.005 U	0.0076 U
30-87	10/27/88	4	0.0122	0.0002 U	0.0220 U	0.0370 U	4.3	0.005 U	00.0076 U
12-87	08/31/87	3	0.1233	0.0002 U	0.0220 U	0.1084	3.5	0.005 U	0.0076 U
12-87	02/25/88	1	0.0447	0.0002 U	0.0220 U	0.1154	1.3	0.002 J	0.0076 U
12-87	04/20/88	2	0.0078	0.0002 U	0.0220 U	0.0610	0.8	0.005 U	0.0076 U
12-87	07/25/88	3	0.0227	0.0002 U	0.0220 U	0.0422	1.1	0.005 U	0.0076 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
14-87	10/12/87	4	76.9625	1.4379	0.01 U	0.0915	0.0200 U
14-87	10/12/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
14-87	02/29/88	1	77.9638	0.3449	0.01 U	0.0686	0.0295
14-87	04/21/88	2	84.0615	0.3095	0.01 U	0.0412	0.0200 U
14-87	08/08/88	3	85.1056	0.3517	0.01 U	0.0360 U	0.0255
14-87	10/26/88	4	88.8970	0.4643	0.01 U	0.0360 U	0.0293
30-87	01/22/88	4	85.6715	0.2057	0.01 U	0.0240 U	0.0280
30-87	03/02/88		120.1536	0.2415	0.01 U	0.0244	0.0224
30-87	04/21/88	2	132.7649	0.2789	0.01 U	0.0360 U	0.0200 U
30-87	08/08/88	3	134.1108	0.2764	0.01 U	0.0360 U	0.0200 U
30-87	08/09/88	3	137.3927	0.2832	0.01 U	0.0360 U	0.0200 U
30-87	10/26/88	4	140.4968	0.3246	0.01 U	0.0360 U	0.0228
30-87	10/27/88	4	142.5761	0.3312	0.01 U	0.0360 U	0.0244
12-87	08/31/87	3	213.3728	0.2646	0.01 U	0.0240 U	0.0210
12-87	02/25/88	1	172.5999	0.2467	0.01 U	0.0240 U	0.0200 U
12-87	04/20/88	2	179.5822	0.2582	0.005 U	0.0360 U	0.0553
12-87	07/25/88	3	193.4917	0.2735	0.01 U	0.0360 U	0.0200 U

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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
12-87	10/31/88		DRY						
11-87	09/16/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
11-87	09/16/87	3	0.0290 U	0.02 U	0.005 U	0.1299	0.005 U	0.001 U	116.9472
11-87	09/21/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
11-87	10/12/87	4	DRY						
11-87	02/17/88	1	0.0290 U	0.02 U	0.005 U	0.1049	0.005 U	0.001 U	98.4283
11-87	04/13/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
11-87	08/08/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
11-87	10/26/88		DRY						
01-71	03/09/87	1	0.0290 U	0.0600 U	0.01 U	0.3006	0.0050 U	0.0050 U	74.2379
01-71	04/30/87	1	0.0290 U	0.0600 U	0.01 U	0.2387	0.005 U	0.005 U	71.7187
01-71	05/01/87	1	NR	0.06 U	0.01 U	NR	NR	0.005 U	NR
01-71	05/21/87	2	0.0290 U	0.06 U	0.01 U	0.2969	0.005 U	0.005 U	86.5157
01-71	07/02/87	3	0.0505	0.02 U	0.005 U	0.2990	0.005 U	0.001 U	79.9108
01-71	10/14/87	4	0.0619	0.02 U	0.005 U	0.2754	0.002 J	0.0007 J	61.9404
01-71	02/25/88	1	0.0290 U	0.022	0.005 U	0.2707	0.005 U	0.001 U	62.7340

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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
12-87	10/31/88		DRY						
11-87	09/16/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
11-87	09/16/87	3	0.02 U	0.0100 U	0.0063 U	0.0069 U	0.003 J	0.07	29.0439
11-87	09/21/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
11-87	10/12/87	4	DRY						
11-87	02/17/88	1	0.02 U	0.0100 U	0.0063 U	0.0224	0.005 U	0.06 J	28.3999
11-87	04/13/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
11-87	08/08/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
11-87	10/26/88		DRY						
01-71	03/09/87	1	0.2 U	0.0100 U	0.0063 U	0.4360	0.005 U	NR	14.5046
01-71	04/30/87	1	0.2 U	0.0100 U	0.0063 U	0.2571	0.005 U	NR	16.2021
01-71	05/01/87	1	0.2 U	NR	NR	NR	0.005 U	NR	NR
01-71	05/21/87	2	0.2 U	0.0100 U	0.0063 U	1.2330	0.020	NR	14.9964
01-71	07/02/87	3	0.02 U	0.0100 U	0.0138	0.7001	0.005 U	NR	13.5221
01-71	10/14/87	4	0.02 U	0.0208	0.0063 U	0.2821	0.002 J	0.04 J	13.7303
01-71	02/25/88	1	0.02 U	0.0100 U	0.0063 U	0.2209	0.005 U	0.1 U	14.4334

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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
12-87	10/31/88		DRY						
11-87	09/16/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
11-87	09/16/87	3	0.2596	0.0002 U	0.0220 U	0.0370 U	7.9	0.024	0.0076 U
11-87	09/21/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
11-87	10/12/87	4	DRY						
11-87	02/17/88	1	0.3933	0.0002 U	0.0220 U	0.2561	4.5	0.010	0.0076 U
11-87	04/13/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
11-87	08/08/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
11-87	10/26/88		DRY						
01-71	03/09/87	1	0.1243	0.0002 U	0.0220 U	0.0370 U	5.0 U	0.0050 U	0.0076 U
01-71	04/30/87	1	0.1025	0.0002 U	0.0220 U	0.0370 U	5.0 U	0.0050 U	0.0076 U
01-71	05/01/87	1	NR	0.0002 U	NR	NR	5.0 U	0.005 U	NR
01-71	05/21/87	2	0.1627	0.0002 U	0.0220 U	0.0370 U	5.0 U	0.005 U	0.0076 U
01-71	07/02/87	3	0.1437	0.0002 U	0.0220 U	0.0502	1.2	0.005 U	0.0076 U
01-71	10/14/87	4	0.0773	0.0002 U	0.0220 U	0.0370 U	1.6	0.005 U	0.0076 U
01-71	02/25/88	1	0.0953	0.0002 U	0.0220 U	0.0370 U	1.5	0.005 U	0.0076 U

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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
12-87	10/31/88		DRY				
11-87	09/16/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
11-87	09/16/87	3	51.3263	0.9591	0.01 U	0.0240 U	0.0200 U
11-87	09/21/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
11-87	10/12/87	4	DRY				
11-87	02/17/88	1	42.4341	0.9228	0.01 U	0.0240 U	0.0200 U
11-87	04/13/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
11-87	08/08/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
11-87	10/26/88		DRY				
01-71	03/09/87	1	16.5882	0.4816	0.01 U	0.0240 U	0.0200 U
01-71	04/30/87	1	18.9527	0.5248	0.01 U	0.0240 U	0.02 U
01-71	05/01/87	1	NR	NR	0.01 U	NR	0.02 U
01-71	05/21/87	2	19.9155	0.4885	0.01 U	0.0240 U	0.0417
01-71	07/02/87	3	19.1208	0.5254	0.01 U	0.0240 U	0.0310
01-71	10/14/87	4	17.1110	0.4912	0.01 U	0.0243	0.0395
01-71	02/25/88	1	17.8310	0.4952	0.01 U	0.0240 U	0.0268

NR = Analyte not reported
U = Analyzed but not detected
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B = Present in laboratory blank
N = Batch spike not in 80-120% range
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
01-71	04/18/88	2	0.0290 U	0.0340 U	0.005 U	0.2153	0.0010 U	0.0050 U	62.7596
01-71	07/25/88	3	0.0290 U	0.0357	0.005 U	0.2950	0.0010 U	0.0050 U	76.0152
01-71	07/26/88	3	0.0290 U	0.0346	0.005 U	0.2898	0.0010 U	0.0050 U	74.5447
01-71	10/31/88	4	0.0412	0.0340 U	0.005 U	0.2943	0.0010 U	0.0050 U	75.7906
01-71	11/01/88	4	0.0434	0.0340 U	0.005 U	0.2980	0.0010 U	0.0050 U	76.0352
02-71	03/11/87	1	0.0290 U	0.0600 U	0.0100 U	0.1139	0.005 U	0.0050 U	66.2810
02-71	03/11/87	1	0.0290 U	0.0600 U	0.01 U	0.1175	0.005 U	0.005 U	65.6058
02-71	04/09/87	1	0.0290 U	0.0600 U	0.01 U	0.0748	0.005 U	0.005 U	66.4747
02-71	05/21/87	2	0.0643	0.06 U	0.01 U	0.0829	0.005 U	0.005 U	86.2693
02-71	07/02/87	3	0.0367	0.02 U	0.003 J	0.0909	0.005 U	0.001 U	95.6300
02-71	10/08/87	4	0.0477	0.02 U	0.002 J	0.1625	0.005 U	0.001 U	133.8610
02-71	10/08/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
02-71	02/25/88	1	0.0290 U	0.02 U	0.005 U	0.1105	0.005 U	0.001 U	116.9765
02-71	04/20/88	2	0.0359	0.0340 U	0.005 U	0.1058	0.0010 U	0.0050 U	179.8336
02-71	07/25/88	3	0.0290 U	0.0710	0.005 U	0.1196	0.0010 U	0.0050 U	201.1006
02-71	10/31/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

NR = Analyte not reported
U = Analyzed but not detected
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J = Present below detection limit
B = Present in laboratory blank
N = Batch spike not in 80-120% range
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
01-71	04/18/88	2	0.02 U	0.0100 U	0.0155	0.9135	0.005 U	0.1 U	14.0425
01-71	07/25/88	3	0.02 U	0.0100 U	0.0063 U	0.3598	0.005 U	NR	14.9166
01-71	07/26/88	3	0.02 U	0.0100 U	0.0063 U	0.3629	0.005 U	NR	14.6403
01-71	10/31/88	4	0.02 U	0.0100 U	0.0063 U	0.0680	0.005 U	NR	13.9217
01-71	11/01/88	4	0.02 U	0.0100 U	0.0063 U	0.0602	0.005 U	NR	14.0523
02-71	03/11/87	1	0.2000 U	0.0100 U	0.0063 U	0.9204	0.0050 U	NR	16.3429
02-71	03/11/87	1	0.2000 U	0.0100 U	0.0063 U	0.9181	0.0050 U	NR	16.4740
02-71	04/09/87	1	0.2 U	0.0100 U	0.0063 U	0.0069 U	0.005 U	NR	20.0582
02-71	05/21/87	2	0.2 U	0.0100 U	0.0063 U	0.7071	0.019	NR	22.6418
02-71	07/02/87	3	0.02 U	0.0100 U	0.0169	0.0132	0.005 U	NR	25.7632
02-71	10/08/87	4	0.02 U	0.0141	0.0063 U	0.4199	0.005 U	0.06 J	36.4795
02-71	10/08/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
02-71	02/25/88	1	0.02 U	0.0100 U	0.0063 U	0.0172	0.005 U	0.07 J	34.9517
02-71	04/20/88	2	0.02 U	0.0288	0.0084	0.0996	0.005 U	0.07 J	45.8643
02-71	07/25/88	3	0.02 U	0.0134	0.0063 U	0.1010	0.005 U	NR	17.7220
02-71	10/31/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
01-71	04/18/88	2	0.0963	0.0002 U	0.0220 U	0.0370 U	1.3	0.003 J	0.0076 U
01-71	07/25/88	3	0.1247	0.0002 U	0.0220 U	0.0370 U	1.2	0.005 U	0.0076 U
01-71	07/26/88	3	0.1239	0.0002 U	0.0220 U	0.0370 U	1.1	0.005 U	0.0076 U
01-71	10/31/88	4	0.1110	0.0002 U	0.0220 U	0.0370 U	2.6	0.005 U	0.0076 U
01-71	11/01/88	4	0.1113	0.0002 U	0.0220 U	0.0370 U	2.6	0.005 U	0.0076 U
02-71	03/11/87	1	0.1477	0.0002 U	0.0220 U	0.0370 U	5.0 U	0.0230	0.0076 U
02-71	03/11/87	1	0.1551	0.0002 U	0.0220 U	0.0370 U	5.0000 U	0.0210	0.0076 U
02-71	04/09/87	1	0.0456	0.0002 U	0.0220 U	0.0370 U	5.0 U	0.03	0.0076 U
02-71	05/21/87	2	0.0428	0.0002 U	0.0220 U	0.0370 U	5.0 U	0.036	0.0076 U
02-71	07/02/87	3	0.0333	0.0003	0.0220 U	0.0370 U	2.6	0.026	0.0076 U
02-71	10/08/87	4	0.1311	0.0017	0.0220 U	0.0370 U	2.3	0.025	0.0076 U
02-71	10/08/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
02-71	02/25/88	1	0.1469	0.0002 U	0.0220 U	0.0478	2.7	0.030	0.0076 U
02-71	04/20/88	2	0.0946	0.0002 U	0.0220 U	0.0500	2.1	0.040	0.0076 U
02-71	07/25/88	3	0.1636	0.0002 U	0.0220 U	0.0370 U	2.4	0.028	0.0076 U
02-71	10/31/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

903-PAD BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
01-71	04/18/88	2	16.9360	0.4521	0.01 U	0.0360 U	0.0259
01-71	07/25/88	3	19.9541	0.4989	0.01 U	0.0360 U	0.0200 U
01-71	07/26/88	3	19.3997	0.4928	0.01 U	0.0360 U	0.0200 U
01-71	10/31/88	4	19.3502	0.5496	0.01 U	0.0360 U	0.0240
01-71	11/01/88	4	20.4243	0.5563	NR	0.0160 U	0.0241
02-71	03/11/87	1	190.1731	0.5929	0.0100 U	0.0240 U	0.0500
02-71	03/11/87	1	187.0130	0.5942	0.0100 U	0.0240 U	0.0400
02-71	04/09/87	1	187.6075	0.6070	0.01 U	0.0240 U	0.04
02-71	05/21/87	2	195.6574	0.6492	0.01 U	0.0240 U	0.0346
02-71	07/02/87	3	221.1795	0.8473	0.01 U	0.0240 U	0.0351
02-71	10/08/87	4	244.5806	1.1487	0.01 U	0.0240 U	0.0200 U
02-71	10/08/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
02-71	02/25/88	1	213.6941	1.0162	0.01 U	0.0240 U	0.0209
02-71	04/20/88	2	234.7011	1.2316	0.01 U	0.0360 U	0.0522
02-71	07/25/88	3	259.5513	1.4771	0.01 U	0.0360 U	0.0411
02-71	10/31/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
34-86	08/10/88	3	0.0290 U	0.1059	0.005 U	0.0234	0.0010 U	0.0050 U	222.3501
34-86	11/04/88	4	0.0379	0.0728	NR	0.0276	0.0010 U	0.0050 U	233.7848
25-87	09/10/87	3	0.0290 U	0.02 U	0.005 U	0.1720	0.005 U	0.001 U	115.8560
25-87	09/11/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
25-87	10/21/87	4	2.6796	NR	NR	0.1524	NR	NR	110.7037
25-87	10/21/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
25-87	10/27/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
25-87	03/03/88	1	0.0290 U	0.02 U	0.005 U	0.1128	0.005 U	0.001 U	116.7854
25-87	05/12/88	2	0.0968	0.0340 U	0.005 U	0.0769	0.0010 U	0.0050 U	105.3446
25-87	08/16/88	3	0.0290 U	0.0340 U	0.005 U	0.0978	0.0010 U	0.0050 U	128.1111
25-87	08/16/88	3	0.0897	0.0340 U	0.005 U	0.0937	0.0010 U	0.0050 U	119.8486
25-87	11/10/88	4	0.0376	0.0340 U	0.005 U	0.1076	0.0010 U	0.0050 U	125.3399
01-74	03/11/87	1	0.0290 U	0.0600 U	0.01 U	0.1854	0.005 U	0.005 U	107.6955
01-74	05/22/87	2	0.0655	0.06 U	0.01 U	0.1781	0.005 U	0.005 U	115.7480
01-74	07/23/87	3	0.0290 U	0.02 U	0.005 U	0.1830	0.005 U	0.001 U	105.9773
01-74	10/21/87	4	0.0401	0.02 U	0.005 U	0.1829	0.005 U	0.001 U	88.1974
01-74	10/21/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

NR = Analyte not reported
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* = 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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
34-86	08/10/88	3	0.02 U	0.0152	0.0098	1.5950	0.005 U	NR	70.8170
34-86	11/04/88	4	0.02 U	0.0100 U	0.0063 U	2.1817	0.005 U	NR	68.6772
25-87	09/10/87	3	0.02 U	0.0100 U	0.0063 U	0.0069 U	0.005 U	0.01 J	8.5770
25-87	09/11/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
25-87	10/21/87	4	NR	0.0785	0.0063 U	4.3470	NR	NR	8.0261
25-87	10/21/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
25-87	10/27/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
25-87	03/03/88	1	0.020 U	0.0100 U	0.0063 U	0.0171	0.005 U	0.1 U	7.8072
25-87	05/12/88	2	0.02 U	0.0100 U	0.0126	0.0220	0.005 U	NR	7.3872
25-87	08/16/88	3	0.020 U	0.0100 U	0.0063 U	0.0189	0.005 U	NR	7.4560
25-87	08/16/88	3	0.020 U	0.0100 U	0.0063 U	0.0319	0.005* U	NR	7.1069
25-87	11/10/88	4	0.02 U	0.0158	0.0063 U	0.0670	0.005 U	NR	7.6568
01-74	03/11/87	1	0.2 U	0.0100 U	0.0063 U	0.0069 U	0.005 U	NR	14.7324
01-74	05/22/87	2	0.2 U	0.0100 U	0.0063 U	0.0333	0.008	NR	15.2494
01-74	07/23/87	3	0.02 U	0.0100 U	0.0072	0.0069 U	0.005 U	NR	13.5031
01-74	10/21/87	4	0.02 U	0.0134	0.0138	0.0572	0.007	0.01 J	13.3081
01-74	10/21/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

NR = Analyte not reported
J = Present below detection limit
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B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
34-86	08/10/88	3	0.1059	0.0002 U	0.0220 U	0.0370 U	8.7	0.005 U	0.0076 U
34-86	11/04/88	4	0.1348	0.0002 U	0.0220 U	0.0370 U	7.5	NR	0.0076 U
25-87	09/10/87	3	0.7061	0.0002 U	0.0227	0.0370 U	3.9	0.005 U	0.0076 U
25-87	09/11/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
25-87	10/21/87	4	0.3485	NR	0.0220 U	0.0370 U	NR	NR	0.0076 U
25-87	10/21/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
25-87	10/27/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
25-87	03/03/88	1	0.0051 U	0.0002 U	0.0220 U	0.0370 U	1.1	0.005 U	0.0076 U
25-87	05/12/88	2	0.0051 U	0.0002 U	0.0220 U	0.0370 U	0.6	0.005 U	0.0076 U
25-87	08/16/88	3	0.0051 U	0.0002 U	0.0220 U	0.0370 U	NR	0.005 U	0.0076 U
25-87	08/16/88	3	0.0051 U	0.0002 U	0.0220 U	0.0370 U	0.5	0.005 U	0.0076 U
25-87	11/10/88	4	0.0051 U	0.0002 U	0.0220 U	0.0370 U	0.5 J	0.005 U	0.0076 U
01-74	03/11/87	1	0.0051 U	0.0002 U	0.0220 U	0.0370 U	5.0 U	0.0050 U	0.0076 U
01-74	05/22/87	2	0.0111	0.0002 U	0.0220 U	0.0370 U	5.0 U	0.005 U	0.0076 U
01-74	07/23/87	3	0.0060	0.0002	0.0220 U	0.0370 U	0.8	0.005 U	0.0076 U
01-74	10/21/87	4	0.0129	0.0002 U	0.0220 U	0.0370 U	0.9	0.005 U	0.0076 U
01-74	10/21/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

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
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R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
34-86	08/10/88	3	223.8332	2.6631	0.01 U	0.0360 U	0.0875
34-86	11/04/88	4	224.1979	3.1113	0.01 U	0.0360 U	0.0200 U
25-87	09/10/87	3	12.3185	0.3776	0.01 U	0.0240 U	0.0200 U
25-87	09/11/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
25-87	10/21/87	4	9.3252	0.3112	NR	0.0401	0.0886
25-87	10/21/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
25-87	10/27/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
25-87	03/03/88	1	11.7683	0.2998	0.010 U	0.0240 U	0.0200 U
25-87	05/12/88	2	11.0605	0.2345	0.01 U	0.0360 U	0.0200 U
25-87	08/16/88	3	12.8617	0.2766	0.010 U	0.0360 U	0.0200 U
25-87	08/16/88	3	13.3006	0.2606	0.010 U	0.0360 U	0.0264
25-87	11/10/88	4	11.4616	0.3155	0.01 U	0.0360 U	0.0991
01-74	03/11/87	1	8.7453	0.5391	0.01 U	0.0240 U	0.06
01-74	05/22/87	2	13.1215	0.5225	0.01 U	0.0240 U	0.0335
01-74	07/23/87	3	9.0118	0.5248	0.01 U	0.0240 U	0.0200 U
01-74	10/21/87	4	9.2626	0.4916	0.01 U	0.0240 U	0.0200
01-74	10/21/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
01-74	03/03/88	1	0.0290 U	0.02 U	0.005 U	0.1743	0.005 U	0.001 U	93.5185
01-74	04/28/88	2	0.0293	0.0340 U	0.005 U	0.1657	0.0010 U	0.0050 U	94.0876
01-74	05/09/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
01-74	08/11/88	3	0.0290 U	0.0340 U	0.005 U	0.1872	0.0010 U	0.0050 U	95.1219
01-74	11/04/88	4	0.0336	0.0342	0.005 U	0.1762	0.0010 U	0.0050 U	95.6792

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
01-74	03/03/88	1	0.020 U	0.0100 U	0.0063 U	0.0148	0.005 U	0.1 U	12.7267
01-74	04/28/88	2	0.02 U	0.0100 U	0.0063 U	0.0096	0.005 U	0.1 U	13.0194
01-74	05/09/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
01-74	08/11/88	3	0.02 U	0.0100 U	0.0148	0.0141	0.005 U	NR	13.7248
01-74	11/04/88	4	0.02 U	0.0100 U	0.0063 U	0.0114	0.005 U	NR	13.4172

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
01-74	03/03/88	1	0.0059	0.0002 U	0.0220 U	0.0370 U	0.6	0.005 U	0.0076 U
01-74	04/28/88	2	0.0051 U	0.0002 U	0.0220 U	0.0370 U	1.3	0.005 U	0.0076 U
01-74	05/09/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
01-74	08/11/88	3	0.0143	0.0002 U	0.0220 U	0.0370 U	0.8	0.005 U	0.0076 U
01-74	11/04/88	4	0.0245	0.0002 U	0.0220 U	0.0370 U	0.5 U	0.005 U	0.0076 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
01-74	03/03/88	1	8.1078	0.4881	0.010 U	0.0240 U	0.0824
01-74	04/28/88	2	7.6229	0.4800	0.01 U	0.0360 U	0.0200 U
01-74	05/09/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
01-74	08/11/88	3	9.2674	0.4925	0.01 U	0.0360 U	0.0486
01-74	11/04/88	4	10.6527	0.5475	0.01 U	0.0360 U	0.0207

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
23-87	09/10/87	3	397	51.8	2.6	70.4	242
23-87	09/11/87	3	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
23-87	10/21/87	4	414	55.9	2.77	27.0	243
23-87	10/21/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
23-87	10/21/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
23-87	03/02/88	1	431	62.8	2.82	17.1	146
23-87	04/28/88	2	392	64.0	2.70	17.5	242
23-87	05/09/88	2	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
23-87	08/10/88	3	446	49.0 J	2.75 J	18.1 J	261 J
23-87	11/04/88	4	344	65.1	2.98	16.6	192
22-87	03/07/88	1	465	8.22	0.02 U	121	54.0
22-87	05/02/88	2	480	5.70	0.04	230	99
22-87	08/10/88	3	586	6.56 J	0.04 J	337 J	119 J
22-87	11/09/88	4	638	7.84	0.11	387	97.0
18-87	10/27/87	4	DRY				
18-87	03/07/88	1	163	5.85	0.02 U	28.9	41.4
18-87	05/02/88	2	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
18-87	08/15/88	3	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
18-87	11/04/88	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
20-87	10/26/87	4	NF	NF	NF	NF	NF
20-87	10/26/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
20-87	03/03/88	1	373	11.1	0.05	261	31.0
20-87	05/09/88	2	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
20-87	08/11/88	3	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
20-87	11/08/88	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
34-86	03/17/87	1	1789	65.9	0.20 U	800	372
34-86	04/06/87	1	1772	53.5	0.20 U	40.0	357
34-86	06/02/87	2	1761	54.0	0.20 U	940	333
34-86	07/28/87	3	1813	54.4	0.20 U	990	319
34-86	10/16/87	4	1773	52.1	0.02 U	900	318
34-86	10/16/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
34-86	03/02/88	1	1700	59.6	0.02 U	763	111
34-86	05/02/88	2	1760	58.3	0.02 U	725	239
34-86	08/10/88	3	1700 J	47.9 J	0.02 U	1076 J	348 J
34-86	11/04/88	4	1750	56.2	0.02 U	1084	316

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
25-87	09/10/87	3	407	29.9	7.6	52	238
25-87	09/11/87	3	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
25-87	10/21/87	4	448	36.0	7.69	35.5	250
25-87	10/21/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
25-87	10/27/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
25-87	03/03/88	1	466	37.3	7.69	32.5	152
25-87	05/12/88	2	496	34.8	6.90	28.5	235
25-87	08/16/88	3	423 J	34.8 J	7.54 J	29.7	271 J
25-87	08/16/88	3	457 J	34.6 J	7.69 J	32.4	267 J
25-87	11/10/88	4	439	39.6	8.02	30.2	239
01-74	03/11/87	1	405	30.5	9.80	30.0	218
01-74	05/22/87	2	381	23.2	8.50	44.0	209
01-74	07/23/87	3	465	20.5	5.9	30.0	220
01-74	10/21/87	4	416	23.4	7.89	31.0	222
01-74	10/21/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
01-74	03/03/88	1	421	21.7	7.22	27.5	129
01-74	04/28/88	2	419	20.8	6.60	29.3	208
01-74	05/09/88	2	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
01-74	08/11/88	3	392 J	22.2 J	7.28 J	3.29 J	251 J
01-74	11/04/88	4	385	19.5	7.12	30.4	208

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Gross Alpha PCI/L	(MDA)	Gross Beta PCI/L	(MDA)	Strontium 89, 90 PCI/L	(MDA)	Plutonium 239, 240 PCI/L	(MDA)
23-87	09/10/87	3	4 ± 23		14 ± 38		NR		NR	
23-87	09/11/87	3	NR		NR		NR		0.002 ± 0.052	
23-87	10/21/87	4	39 ± 27		30 ± 45		NR		NR	
23-87	10/21/87	4	***							
23-87	10/21/87	4	***							
23-87	03/02/88	1	6 ± 4	6	11 ± 12	26	NR		0.00 ± 0.19	0.84
23-87	04/28/88	2	14 ± 5		5 ± 11	24	NR		0.00 ± 0.03	0.22
23-87	05/09/88	2	***							
23-87	08/10/88	3	5 ± 1		5 ± 2		NR		0.07 ± 0.05	
23-87	11/04/88	4	Data not yet received							
22-87	03/07/88	1	22 ± 9		12 ± 16	36	NR		0.00 ± 0.16	0.48
22-87	05/02/88	2	6 ± 6	10	5 ± 16	36	NR		0.00 ± 0.04	0.16
22-87	08/10/88	3	3 ± 1		11 ± 2		NR		0.00 ± 0.04	
22-87	11/09/88	4	Data not yet received							
18-87	10/27/87	4	DRY							
18-87	03/07/88	1	7 ± 9	16	24 ± 15	34	NR		0.02 ± 0.09	0.4
18-87	05/02/88	2	***							
18-87	08/15/88	3	***							
18-87	11/04/88	4	***							

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Americium 241 PCI/L	(MDA)	Tritium PCI/L	(MDA)	Total Uranium PCI/L
23-87	09/10/87	3	NR		<460		0.0
23-87	09/11/87	3	0.001 ± 0.036		NR		11.0
23-87	10/21/87	4	NR		<520		0.0
23-87	10/21/87	4	***				
23-87	10/21/87	4	***				
23-87	03/02/88	1	0.00 ± 0.17	1.1	<210		5.8
23-87	04/28/88	2	0.00 ± 0.10	0.65	<200		5.5
23-87	05/09/88	2	***				
23-87	08/10/88	3	0.00 ± 0.08		210		5.0
23-87	11/04/88	4	Data not yet received				
22-87	03/07/88	1	0.00 ± 0.31	1.6	<200		4.6
22-87	05/02/88	2	0.00 ± 0.10	0.35	<210		3.8
22-87	08/10/88	3	0.02 ± 0.08		210		4.2
22-87	11/09/88	4	Data not yet received				
18-87	10/27/87	4	DRY				
18-87	03/07/88	1	0.00 ± 0.24	1.2	<220		0.4
18-87	05/02/88	2	***				
18-87	08/15/88	3	***				
18-87	11/04/88	4	***				

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Gross Alpha PCI/L	(MDA)	Gross Beta PCI/L	(MDA)	Strontium 89, 90 PCI/L	(MDA)	Plutonium 239, 240 PCI/L	(MDA)
20-87	10/26/87	4	***							
20-87	10/26/87	4	***							
20-87	03/03/88	1	8 ± 12	27	37 ± 22	47	NR		0.00 ± 0.18	0.68
20-87	05/09/88	2	***							
20-87	08/11/88	3	***							
20-87	11/08/88	4	***							
34-86	03/17/87	1	See total radiochemistry.							
34-86	04/06/87	1	See total radiochemistry.							
34-86	06/02/87	2	See total radiochemistry.							
34-86	07/28/87	3	0 ± 59	112	9 ± 62	117	<1.0		-.06 ± .72	0.8
34-86	10/16/87	4	3 ± 10	18	6 ± 11	20	1.2		0.00 ± .07	1.3
34-86	10/16/87	4	***							
34-86	03/02/88	1	6 ± 13	28	4 ± 21	49	NR		0.00 ± 0.40	3.6
34-86	05/02/88	2	8 ± 9	17	5 ± 24	55	NR		0.00 ± 0.04	0.13
34-86	08/10/88	3	-3 ± 3		7 ± 5		NR		0.00 ± 0.04	
34-86	11/04/88	4	Data not yet received							
25-87	09/10/87	3	14 ± 25		30 ± 36		NR		NR	
25-87	09/11/87	3	NR		NR		NR		NR	

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Americium 241 PCI/L	(MDA)	Tritium PCI/L	(MDA)	Total Uranium PCI/L
20-87	10/26/87	4	***				
20-87	10/26/87	4	***				
20-87	03/03/88	1	0.00 ± 0.24	1.1	<200		0.0
20-87	05/09/88	2	***				
20-87	08/11/88	3	***				
20-87	11/08/88	4	***				
34-86	03/17/87	1	See total radiochemistry.				
34-86	04/06/87	1	See total radiochemistry.				
34-86	06/02/87	2	See total radiochemistry.				
34-86	07/28/87	3	-0.4 ± 5.5	1.0	<478		1.8
34-86	10/16/87	4	0.00 ± .09	.26	<460		1.9
34-86	10/16/87	4	***				
34-86	03/02/88	1	0.00 ± 0.47	3.0	<210		0.3
34-86	05/02/88	2	0.02 ± 0.10	0.33	<210		0.3
34-86	08/10/88	3	0.00 ± 0.09		210		0.9
34-86	11/04/88	4	Data not yet received				
25-87	09/10/87	3	NR		<460		0.0
25-87	09/11/87	3	0.065 ± 0.040		NR		6.1

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Gross Alpha PCI/L	(MDA)	Gross Beta PCI/L	(MDA)	Strontium 89, 90 PCI/L	(MDA)	Plutonium 239, 240 PCI/L	(MDA)
25-87	10/21/87	4	4 ± 16		-12 ± 37		NR		NR	
25-87	10/21/87	4	***							
25-87	10/27/87	4	***							
25-87	03/03/88	1	7 ± 5	8	-2 ± 11	26	NR		0.00 ± 0.19	0.78
25-87	05/12/88	2	19 ± 7		8 ± 14	33	NR		0.01 ± 0.04	0.29
25-87	08/16/88	3	3 ± 1		2 ± 1		NR		0.00 ± 0.04	
25-87	08/16/88	3	3 ± 1		3 ± 1		NR		0.01 ± 0.04	
25-87	11/10/88	4	Data not yet received							
01-74	03/11/87	1	See total radiochemistry.							
01-74	05/22/87	2	See total radiochemistry.							
01-74	07/23/87	3	9 ± 23	41	8 ± 39	74	5.0		0.0 ± 0.7	1.0
01-74	10/21/87	4	8 ± 4		-3 ± 9	17	<1.0		.01 ± .09	.51
01-74	10/21/87	4	***							
01-74	03/03/88	1	5 ± 4	14	0 ± 10	22	NR		0.09 ± 0.11	0.43
01-74	04/28/88	2	6 ± 3		2 ± 9	21	NR		0.00 ± 0.4	0.15
01-74	05/09/88	2	***							
01-74	08/11/88	3	4 ± 1		3 ± 2		NR		0.00 ± 0.04	
01-74	11/04/88	4	Data not yet received							

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

MOUND-AREA BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Americium 241 PCI/L	(MDA)	Tritium PCI/L	(MDA)	Total Uranium PCI/L
25-87	10/21/87	4	NR		<520		0.0
25-87	10/21/87	4	***				
25-87	10/27/87	4	***				
25-87	03/03/88	1	0.00 ± 0.46	1.3	<210		3.5
25-87	05/12/88	2	0.00 ± 0.09	0.41	<200		2.2
25-87	08/16/88	3	0.00 ± 0.08		210		2.3
25-87	08/16/88	3	0.07 ± 0.08		210		2.3
25-87	11/10/88	4	Data not yet received				
01-74	03/11/87	1	See total radiochemistry.				
01-74	05/22/87	2	See total radiochemistry.				
01-74	07/23/87	3	.16 ± .58	0.8	<475		4.5
01-74	10/21/87	4	0.00 ± .58	2.0	<460		3.8
01-74	10/21/87	4	***				
01-74	03/03/88	1	0.05 ± 0.42	1.8	<210		4.6
01-74	04/28/88	2	0.00 ± 0.10	0.37	220 ± 90		3.7
01-74	05/09/88	2	***				
01-74	08/11/88	3	0.01 ± 0.09		220 ± 90		4.7
01-74	11/04/88	4	Data not yet received				

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

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Chloro methane ug/l	Bromo methane ug/l	Vinyl Chloride ug/l	Chloro ethane ug/l	Methylene Chloride ug/l	Acetone ug/l	Carbon Disulfide ug/l
42-86	02/20/89	1	10 U	10 U	10 U	10 U	5 U	10 U	5 U
42-86	05/08/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U
27-87	02/20/89	1	DRY						
27-87	05/10/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U
32-87	02/22/89	1	10 U	10 U	10 U	10 U	5 U	10 U	5 U
32-87	05/09/89	2	DRY						
41-86	02/20/89	1	10 U	10 U	10 U	10 U	5 U	10 U	5 U
41-86	05/10/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U
39-86	02/15/89	1	10 U	10 U	10 U	10 U	6 U	10 U	5 U
39-86	02/15/89	1	10 U	10 U	10 U	10 U	5 U	10 U	5 U
39-86	05/08/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U
66-86	06/02/89		Data not yet received						
66-86	06/22/89	2	DRY						
66-86	07/20/89		Data not yet received						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	1,1-Di-chloro ethene ug/l	1,1-Di-chloro ethane ug/l	Total-1,2-Dichloro ethene ug/l	Chloroform ug/l	1,2-Di-chloro ethane ug/l	2-Butanone ug/l	1,1,1-Tri chloro ethane ug/l
42-86	02/20/89	1	5 U	5 U	5 U	20	5 U	10 U R	5 U
42-86	05/08/89	2	5 U	5 U	5 U	21 J	5 U	10 U R	5 U
27-87	02/20/89	1	DRY						
27-87	05/10/89	2	5 U	5 U	5 U	3 J	5 U	10 U R	5 U
32-87	02/22/89	1	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
32-87	05/09/89	2	DRY						
41-86	02/20/89	1	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
41-86	05/10/89	2	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
39-86	02/15/89	1	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
39-86	02/15/89	1	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
39-86	05/08/89	2	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
66-86	06/02/89		Data not yet received						
66-86	06/22/89	2	DRY						
66-86	07/20/89		Data not yet received						

NR = Analyte not reported
J = Present below detection limit
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E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Carbon Tetra chloride ug/l	Vinyl Acetate ug/l	Bromo dichloro methane ug/l	1,2-Di-chloro propane ug/l	Cis-1,3-Dichloro propene ug/l	Trichloro ethene ug/l	Dibromo chloro methane ug/l
42-86	02/20/89	1	760	10 U	5 U	5 U	5 U	95	5 U
42-86	05/08/89	2	1100	10 U	5 U	5 U	5 U	190	5 U
27-87	02/20/89	1	DRY						
27-87	05/10/89	2	15	10 U	5 U	5 U	5 U	4 J	5 U
32-87	02/22/89	1	5 U	10 U	5 U	5 U	5 U	5 U	5 U
32-87	05/09/89	2	DRY						
41-86	02/20/89	1	5 U	10 U	5 U	5 U	5 U	3 J	5 U
41-86	05/10/89	2	5 U	10 U	5 U	5 U	5 U	5 U	5 U
39-86	02/15/89	1	5 U	10 U	5 U	5 U	5 U	5 U	5 U
39-86	02/15/89	1	5 U	10 U	5 U	5 U	5 U	5 U	5 U
39-86	05/08/89	2	5 U	10 U	5 U	5 U	5 U	5 U	5 U
66-86	06/02/89		Data not yet received						
66-86	06/22/89	2	DRY						
66-86	07/20/89		Data not yet received						

NR = Analyte not reported
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E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	1,1,2-Tri chloro ethane ug/l	Benzene ug/l	Trans-1,3-Dichloro propene ug/l	2-Chloro ethylvinyl ether ug/l	Bromoform ug/l	4-Methyl-2-penta none ug/l	2-Hexanone ug/l
42-86	02/20/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
42-86	05/08/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
27-87	02/20/89	1	DRY						
27-87	05/10/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
32-87	02/22/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
32-87	05/09/89	2	DRY						
41-86	02/20/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
41-86	05/10/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
39-86	02/15/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
39-86	02/15/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
39-86	05/08/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
66-86	06/02/89		Data not yet received						
66-86	06/22/89	2	DRY						
66-86	07/20/89		Data not yet received						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Tetra chloro ethene ug/l	1,1,2,2-Tetrachloro ethane ug/l	Toluene ug/l	Chloro benzene ug/l	Ethyl benzene ug/l	Styrene ug/l	Total Xylenes ug/l
42-86	02/20/89	1	180	5 U	5 U	5 U	5 U	5 U	5 U
42-86	05/08/89	2	300	5 U	5 U	5 U	5 U	5 U	5 U
27-87	02/20/89	1	DRY						
27-87	05/10/89	2	31	5 U	5 U	5 U	5 U	5 U	5 U
32-87	02/22/89	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
32-87	05/09/89	2	DRY						
41-86	02/20/89	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
41-86	05/10/89	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U
39-86	02/15/89	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
39-86	02/15/89	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
39-86	05/08/89	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U
66-86	06/02/89		Data not yet received						
66-86	06/22/89	2	DRY						
66-86	07/20/89		Data not yet received						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Chloro methane ug/l	Bromo methane ug/l	Vinyl Chloride ug/l	Chloro ethane ug/l	Methylene Chloride ug/l	Acetone ug/l	Carbon Disulfide ug/l
66-86	10/12/89		Data not yet received						
67-86	02/22/89	1	DRY						
67-86	05/09/89	2	DRY						
26-87	02/22/89	1	DRY						
26-87	05/09/89	2	DRY						
37-86	02/09/89	1	10 U	10 U	10 U	10 U	5 U	10 U	5 U
37-86	05/03/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U
38-86	03/27/89	1	10 U	10 U	10 U	10 U	6 U	10 U	5 U
38-86	05/11/89	2	DRY						
38-86	06/22/89	2	DRY						
35-87	02/15/89	1	DRY						
35-87	05/09/89	2	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	1,1-Di-chloro ethene ug/l	1,1-Di-chloro ethane ug/l	Total-1,2-Dichloro ethene ug/l	Chloroform ug/l	1,2-Di-chloro ethane ug/l	2-Butanone ug/l	1,1,1-Tri chloro ethane ug/l
66-86	10/12/89		Data not yet received						
67-86	02/22/89	1	DRY						
67-86	05/09/89	2	DRY						
26-87	02/22/89	1	DRY						
26-87	05/09/89	2	DRY						
37-86	02/09/89	1	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
37-86	05/03/89	2	5 U	5 U	5 U	5 U	5 U	10 U	5 U
38-86	03/27/89	1	5 U	5 U	5 U	5 U	5 U	10 U	5 U
38-86	05/11/89	2	DRY						
38-86	06/22/89	2	DRY						
35-87	02/15/89	1	DRY						
35-87	05/09/89	2	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Carbon Tetra chloride ug/l	Vinyl Acetate ug/l	Bromo dichloro methane ug/l	1,2-Di-chloro propane ug/l	Cis-1,3-Dichloro propene ug/l	Trichloro ethene ug/l	Dibromo chloro methane ug/l
66-86	10/12/89		Data not yet received						
67-86	02/22/89	1	DRY						
67-86	05/09/89	2	DRY						
26-87	02/22/89	1	DRY						
26-87	05/09/89	2	DRY						
37-86	02/09/89	1	5 U	10 U	5 U	5 U	5 U	5 U	5 U
37-86	05/03/89	2	5 U	10 U R	5 U	5 U	5 U	5 U	5 U
38-86	03/27/89	1	5 U	10 U	5 U	5 U	5 U	5 U	5 U
38-86	05/11/89	2	DRY						
38-86	06/22/89	2	DRY						
35-87	02/15/89	1	DRY						
35-87	05/09/89	2	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	1,1,2-Tri chloro ethane ug/l	Benzene ug/l	Trans-1,3-Dichloro propene ug/l	2-Chloro ethylvinyl ether ug/l	Bromoform ug/l	4-Methyl-2-penta none ug/l	2-Hexanone ug/l
66-86	10/12/89		Data not yet received						
67-86	02/22/89	1	DRY						
67-86	05/09/89	2	DRY						
26-87	02/22/89	1	DRY						
26-87	05/09/89	2	DRY						
37-86	02/09/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
37-86	05/03/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
38-86	03/27/89	1	5 U	5 U	5 U	10 U	5 U	10 U	10 U
38-86	05/11/89	2	DRY						
38-86	06/22/89	2	DRY						
35-87	02/15/89	1	DRY						
35-87	05/09/89	2	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Tetra chloro ethene ug/l	1,1,2,2-Tetrachloro ethane ug/l	Toluene ug/l	Chloro benzene ug/l	Ethyl benzene ug/l	Styrene ug/l	Total Xylenes ug/l
66-86	10/12/89		Data not yet received						
67-86	02/22/89	1	DRY						
67-86	05/09/89	2	DRY						
26-87	02/22/89	1	DRY						
26-87	05/09/89	2	DRY						
37-86	02/09/89	1	3 J	5 U	5 U	5 U	5 U	5 U	5 U
37-86	05/03/89	2	30 R	5 U	5 U	5 U	5 U	5 U	5 U
38-86	03/27/89	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
38-86	05/11/89	2	DRY						
38-86	06/22/89	2	DRY						
35-87	02/15/89	1	DRY						
35-87	05/09/89	2	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Chloro methane ug/l	Bromo methane ug/l	Vinyl Chloride ug/l	Chloro ethane ug/l	Methylene Chloride ug/l	Acetone ug/l	Carbon Disulfide ug/l
33-87	02/15/89	1	DRY						
33-87	05/09/89	2	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	1,1-Di-chloro ethene ug/l	1,1-Di-chloro ethane ug/l	Total-1,2-Dichloro ethene ug/l	Chloroform ug/l	1,2-Di-chloro ethane ug/l	2-Butanone ug/l	1,1,1-Tri chloro ethane ug/l
33-87	02/15/89	1	DRY						
33-87	05/09/89	2	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Carbon Tetra chloride ug/l	Vinyl Acetate ug/l	Bromo dichloro methane ug/l	1,2-Di-chloro propane ug/l	Cis-1,3-Dichloro propene ug/l	Trichloro ethene ug/l	Dibromo chloro methane ug/l
33-87	02/15/89	1	DRY						
33-87	05/09/89	2	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	1,1,2-Tri chloro ethane ug/l	Benzene ug/l	Trans-1,3- Dichloro propene ug/l	2-Chloro ethylvinyl ether ug/l	Bromoform ug/l	4-Methyl- 2-penta none ug/l	2-Hexanone ug/l
33-87	02/15/89	1	DRY						
33-87	05/09/89	2	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Tetra chloro ethene ug/l	1,1,2,2- Tetrachloro ethane ug/l	Toluene ug/l	Chloro benzene ug/l	Ethyl benzene ug/l	Styrene ug/l	Total Xylenes ug/l
33-87	02/15/89	1	DRY						
33-87	05/09/89	2	DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
42-86	03/12/87	1	2.6303	0.0600 U	0.01 U	0.3254	0.005 U	0.005 U	164.5958
42-86	05/26/87	2	0.0290 U	0.06 U	0.01 U	0.1893	0.005 U	0.005 U	145.0887
42-86	07/23/87	3	0.5356	0.02 U	0.005 U	0.2371	0.005 U	0.0004 J	130.8069
42-86	09/03/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
42-86	10/14/87	4	0.0385	0.02 U	0.005 U	0.2195	0.001 J	0.001 U	123.4732
42-86	03/03/88	1	0.0290 U	0.02 U	0.005 U	0.2023	0.005 U	0.001 U	126.4858
42-86	05/04/88	2	0.0503	0.0340 U	0.005 U	0.1849	0.0010 U	0.0050 U	121.5535
42-86	08/25/88	3	0.0290 U	0.0340 U	0.005 U	0.2003	0.0010 U	0.0050 U	114.3637
42-86	11/17/88	4	0.0290 U	0.0340 U	0.005 U	0.2084	0.0010 U	0.0050 U	138.1292
27-87	10/26/87	4	DRY						
27-87	03/09/88	1	DRY						
27-87	05/11/88	2	DRY						
27-87	08/23/88	3	0.0290 U	0.0340 U	0.005 U	0.1105	0.0010 U	0.0050 U	86.4268
27-87	08/23/88	3	0.0522	0.0340 U	0.005 U	0.1117	0.0010 U	0.0050 U	85.0476
27-87	11/17/88	4	0.0524	0.0340 U	0.005 U	0.1160	0.0010 U	0.0050 U	92.1867
32-87	10/26/87	4	0.0349	NR	NR	0.1902	NR	NR	97.7697

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Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
42-86	03/12/87	1	0.2 U	0.0100 U	0.0070	2.1119	0.005 U	NR	14.9256
42-86	05/26/87	2	0.2 U	0.0100 U	0.0063 U	0.0109	0.013	NR	13.0698
42-86	07/23/87	3	0.02 U	0.0100 U	0.0141	0.3656	0.005	NR	10.9716
42-86	09/03/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
42-86	10/14/87	4	0.02 U	0.0201	0.0063 U	0.0384	0.005 U	0.01 J	10.7988
42-86	03/03/88	1	0.020 U	0.0100 U	0.0063 U	0.0195	0.005 U	0.1 U	10.8989
42-86	05/04/88	2	0.02 U	0.0100 U	0.0593	0.0275	0.005 U	NR	10.4139
42-86	08/25/88	3	0.020 U	0.0100 U	0.0063 U	0.0166	0.005 U	NR	10.2137
42-86	11/17/88	4	0.02 U	0.0100 U	0.0063 U	0.0198	0.005 U	NR	11.7878
27-87	10/26/87	4	DRY						
27-87	03/09/88	1	DRY						
27-87	05/11/88	2	DRY						
27-87	08/23/88	3	0.020 U	0.0100 U	0.0073	0.0179	0.005* U	NR	14.6548
27-87	08/23/88	3	0.020 U	0.0100 U	0.0076	0.0216	0.005 U	NR	15.0260
27-87	11/17/88	4	0.02 U	0.0100 U	0.0063 U	0.0491	0.005 U	NR	14.0185
32-87	10/26/87	4	NR	0.0417	0.0063 U	0.0945	NR	NR	15.4193

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
42-86	03/12/87	1	0.3424	0.0002 U	0.0220 U	0.1005	5.0 U	0.0050 U	0.0076 U
42-86	05/26/87	2	0.0391	0.0002 U	0.0220 U	0.0370 U	5.0 U	0.005 U	0.0076 U
42-86	07/23/87	3	0.0203	0.013	0.0220 U	0.0375	1.2	0.005 U	0.0076 U
42-86	09/03/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
42-86	10/14/87	4	0.0089	0.0004	0.0220 U	0.0370 U	1.4	0.005 U	0.0076 U
42-86	03/03/88	1	0.0051 U	0.0002 U	0.0220 U	0.0370 U	0.8	0.005 U	0.0076 U
42-86	05/04/88	2	0.0051 U	0.0002 U	0.0220 U	0.0370 U	0.9	0.005 U	0.1280
42-86	08/25/88	3	0.0133	0.0002 U	0.0220 U	0.0377	1.2	0.005 U	0.0076 U
42-86	11/17/88	4	0.0143	0.0002 U	0.0220 U	0.0721	0.7	0.005 U	0.0076 U
27-87	10/26/87	4	DRY						
27-87	03/09/88	1	DRY						
27-87	05/11/88	2	DRY						
27-87	08/23/88	3	0.0051 U	0.0002 U	0.0220 U	0.0370 U	3.9	0.005 U	0.0076 U
27-87	08/23/88	3	0.0051 U	0.0002 U	0.0220 U	0.0370 U	4.0	0.005 U	0.0076 U
27-87	11/17/88	4	0.0091	0.0002 U	0.0220 U	0.0370 U	2.6	0.005 U	0.0095
32-87	10/26/87	4	0.6198	NR	0.0220 U	0.0463	NR	NR	0.0076 U

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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 Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
42-86	03/12/87	1	17.9722	0.5742	0.01 U	0.240 U	0.03
42-86	05/26/87	2	14.4499	0.5034 U	0.01 U	0.0240 U	0.0200 U
42-86	07/23/87	3	15.3966	0.4566	0.01 U	0.0240 U	0.0200 U
42-86	09/03/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
42-86	10/14/87	4	15.3125	0.4461	0.01 U	0.0393	0.0257
42-86	03/03/88	1	14.7025	0.4405	0.010 U	0.0240 U	0.0200 U
42-86	05/04/88	2	14.7554	0.4071	0.01 U	0.0360 U	0.0559
42-86	08/25/88	3	17.8630	0.4498	0.010 U	0.0360 U	0.0283
42-86	11/17/88	4	18.1312	0.5120	0.01 U	0.0360 U	0.0200 U
27-87	10/26/87	4	DRY				
27-87	03/09/88	1	DRY				
27-87	05/11/88	2	DRY				
27-87	08/23/88	3	28.0970	0.4914	0.010 U	0.0360 U	0.0397
27-87	08/23/88	3	27.5836	0.4937	0.010 U	0.0360 U	0.0200 U
27-87	11/17/88	4	27.3135	0.5492	0.01 U	0.0360 U	0.0256
32-87	10/26/87	4	24.5042	0.5598	NR	0.0240 U	0.0200 U

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E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
32-87	10/26/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
32-87	03/09/88	1	0.0290 U	0.014	0.005 U	0.1972	0.005 U	0.001 U	114.4551
32-87	05/12/88	2	0.0302	0.0340 U	0.005 U	0.1074	0.0010 U	0.0050 U	119.8149
32-87	08/23/88	3	0.0290 U	0.0340 U	0.005 U	0.1612	0.0010 U	0.0050 U	115.3676
32-87	11/17/88	4	0.0359	0.0340 U	0.005 U	0.1867	0.0010 U	0.0050 U	129.3694
41-86	05/06/87	1	0.0290 U	0.0600 U	0.01 U	0.1802	0.005 U	0.005 U	130.3624
41-86	06/01/87	2	0.0290 U	0.06 U	0.01 U	0.1372	0.005 U	0.005 U	41.9511
41-86	07/20/87	3	0.0397	0.02 U	0.005 U	0.1832	0.005 U	0.001 U	111.9865
41-86	10/22/87	4	0.0679	0.006 J	0.005 U	0.2023	0.004 J	0.001 U	105.3990
41-86	10/22/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
41-86	12/16/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
41-86	03/10/88	1	0.0290 U	0.02 U	0.005 U	0.1973	0.005 U	0.001	104.4861
41-86	05/04/88	2	0.0516	0.0340 U	0.005 U	0.1985	0.0027	0.0050 U	115.0324
41-86	08/24/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
41-86	11/22/88	4	0.0692	0.0434	0.005 U	0.2334	0.0010 U	0.0050 U	129.1391
39-86	05/06/87	1	0.0290 U	0.0600 U	0.01 U	0.2274	0.005 U	0.005 U	120.5403

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Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
32-87	10/26/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
32-87	03/09/88	1	0.02 U	0.0100 U	0.2227	0.0106	0.005 U	0.1 U	16.0040
32-87	05/12/88	2	0.02 U	0.0100 U	0.0621	0.0561	0.005 U	NR	19.4299
32-87	08/23/88	3	0.020 U	0.0100 U	0.0100	0.0467	0.005* U	NR	14.4738
32-87	11/17/88	4	0.02 U	0.0100 U	0.0063 U	0.0283	0.005 U	NR	15.0660
41-86	05/06/87	1	0.2 U	0.0100 U	0.0063 U	0.0069 U	0.005 U	NR	17.7762
41-86	06/01/87	2	0.2 U	0.0100 U	0.0077	0.5796	0.005 U	NR	16.0342
41-86	07/20/87	3	0.02 U	0.0100 U	0.0112	0.0112	0.005 U	NR	16.1562
41-86	10/22/87	4	0.02 U	0.0123	0.0103	0.0789	0.005 U	0.01 J	15.9402
41-86	10/22/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
41-86	12/16/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
41-86	03/10/88	1	0.02 U	0.0100 U	0.0063 U	0.0107	0.005 U	0.1 U	15.6787
41-86	05/04/88	2	0.02 U	0.0100 U	0.0211	0.0284	0.005 U	NR	17.1654
41-86	08/24/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
41-86	11/22/88	4	0.02 U	0.0110	0.0063 U	0.0551	0.005 U	NR	16.8428
39-86	05/06/87	1	0.2 U	0.0100 U	0.0063 U	0.0069 U	0.005 U	NR	11.8066

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Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
32-87	10/26/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
32-87	03/09/88	1	0.4679	0.0002 U	0.0220 U	0.3783	3.2	0.005 U	0.0076 U
32-87	05/12/88	2	0.1821	0.0002 U	0.0220 U	0.0584	3.7	0.005 U	0.0076 U
32-87	08/23/88	3	0.0316	0.0002 U	0.0220 U	0.0370 U	2.6	0.005 U	0.0076 U
32-87	11/17/88	4	0.0199	0.0002 U	0.0220 U	0.0370 U	1.4	0.005 U	0.0076 U
41-86	05/06/87	1	0.2290	0.0002 U	0.0220 U	0.0370 U	3.0	0.0050 U	0.0076 U
41-86	06/01/87	2	0.0051 U	0.0002 U	0.0220 U	0.0370 U	8.2	0.005 U	0.0076 U
41-86	07/20/87	3	0.0754	0.0002 U	0.0220 U	0.0613	3.1	0.005 U	0.0076 U
41-86	10/22/87	4	0.0186	0.0002 U	0.0220 U	0.0754	2.1	0.005 U	0.0076 U
41-86	10/22/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
41-86	12/16/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
41-86	03/10/88	1	0.0051 U	0.0002 U	0.0220 U	0.0370 U	1.9	0.005 U	0.0076 U
41-86	05/04/88	2	0.0051 U	0.0002 U	0.0220 U	0.0370 U	1.9	0.005 U	0.0295
41-86	08/24/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
41-86	11/22/88	4	0.0051 U	0.0002 U	0.0220 U	0.0370 U	1.2	0.005 U	0.0076 U
39-86	05/06/87	1	0.0067	0.0002 U	0.0220 U	0.0370 U	5.0 U	0.0050 U	0.0076 U

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* = Holding time not met
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E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
32-87	10/26/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
32-87	03/09/88	1	25.0755	0.5935	0.01 U	0.0240 U	0.9800
32-87	05/12/88	2	31.8007	0.5876	0.01 U	0.0360 U	0.1173
32-87	08/23/88	3	25.5758	0.5098	0.010 U	0.0360 U	0.0502
32-87	11/17/88	4	26.0447	0.6276	0.01 U	0.0360 U	0.0220
41-86	05/06/87	1	25.9055	0.6754	0.01 U	0.0240 U	0.02 U
41-86	06/01/87	2	18.0695	0.5429	0.01 U	0.0240 U	0.0200 U
41-86	07/20/87	3	18.2521	0.5832	0.01 U	0.0366	0.0200 U
41-86	10/22/87	4	19.4115	0.5712	0.01 U	0.0240 U	0.0786
41-86	10/22/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
41-86	12/16/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
41-86	03/10/88	1	16.3165	0.5817	0.01 U	0.0240 U	0.0200 U
41-86	05/04/88	2	16.6979	0.5893	0.01 U	0.0360 U	0.0377
41-86	08/24/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
41-86	11/22/88	4	19.1148	0.6698	0.01 U	0.0360 U	0.0555
39-86	05/06/87	1	15.8685	0.5293	0.01 U	0.0240 U	0.02 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
39-86	06/03/87	2	0.0384	0.06 U	0.01 U	0.2166	0.005 U	0.005 U	93.0783
39-86	07/24/87	3	0.0756	0.02 U	0.005 U	0.2411	0.005 U	0.0003 J	112.5738
39-86	09/03/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
39-86	12/12/87	4	0.0670	0.02 U	0.005 U	0.2244	0.05 U	0.001 U	99.7727
39-86	03/09/88	1	0.0290 U	0.02 U	0.005 U	0.2576	0.005 U	0.001 U	111.6517
39-86	05/04/88	2	0.0313	0.0340 U	0.005 U	0.2264	0.0010 U	0.0050 U	108.6039
39-86	08/19/88	3	0.0290 U	0.0340 U	0.005 U	0.2536	0.0010 U	0.0050 U	110.9536
39-86	11/10/88	4	0.0421	0.0360	0.005 U	0.2459	0.0010 U	0.0050 U	109.9309
66-86	05/11/87	1	0.0411	0.06 U	0.0100 U	0.0726	0.005 U	0.0050 U	33.8505
66-86	05/28/87	2	0.0290 U	0.06 U	0.01 U	0.1065	0.005 U	0.005 U	49.7015
66-86	07/17/87	3	DRY						
66-86	10/19/87	4	DRY						
66-86	03/31/88	1	0.0305	0.0340 U	0.005 U	0.0473	0.0010 U	0.0050 U	29.8451
66-86	06/02/88	2	0.0533	0.0340 U	0.005 U	0.0792	0.0010 U	0.0050 U	24.1847
66-86	10/07/88		DRY						
66-86	12/23/88		DRY						
67-86	05/11/87	1	0.0434	0.06 U	0.0100 U	0.0909	0.005 U	0.0050 U	88.8143

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
39-86	06/03/87	2	0.2 U	0.0100 U	0.0078	0.0274	0.005 U	NR	10.0903
39-86	07/24/87	3	0.02 U	0.0100 U	0.0094	0.0433	0.005 U	NR	11.0669
39-86	09/03/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
39-86	12/12/87	4	0.02 U	0.0100 U	0.0216	0.0661	0.005 U	0.1 U	10.1957
39-86	03/09/88	1	0.02 U	0.0100 U	0.0063 U	0.0122	0.005 U	0.1 U	11.4966
39-86	05/04/88	2	0.02 U	0.0100 U	0.0188	0.0429	0.005 U	NR	11.6715
39-86	08/19/88	3	0.020 U	0.0117	0.0063 U	0.0312	NR	NR	11.5095
39-86	11/10/88	4	NR	0.0100 U	0.0063 U	0.0683	NR	NR	11.2983
66-86	05/11/87	1	0.2 U	0.0100 U	0.0063 U	0.0193	0.0050 U	NR	7.6188
66-86	05/28/87	2	0.2 U	0.0100 U	0.0063 U	0.0125	0.018	NR	9.5567
66-86	07/17/87	3	DRY						
66-86	10/19/87	4	DRY						
66-86	03/31/88	1	0.020 U	0.0100 U	0.0072	0.0336	0.005 U	0.1 U	6.7024
66-86	06/02/88	2	0.02 U	0.0100 U	0.0063 U	0.1015	0.005 U	NR	5.4617
66-86	10/07/88		DRY						
66-86	12/23/88		DRY						
67-86	05/11/87	1	0.2 U	0.0100 U	0.0091	0.0223	0.0050 U	NR	38.0920

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
39-86	06/03/87	2	0.0051 U	0.0002 U	0.0220 U	0.0370 U	5.0 U	0.005 U	0.0076 U
39-86	07/24/87	3	0.0084	0.005	0.0220 U	0.0370 U	1.1	0.002 J	0.0076 U
39-86	09/03/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
39-86	12/12/87	4	0.0064	0.0002 U	0.0220 U	0.0370 U	1.2	0.005 U	0.0076 U
39-86	03/09/88	1	0.0054	0.0002 U	0.0220 U	0.0370 U	0.9	0.005 U	0.0076 U
39-86	05/04/88	2	0.0051 U	0.0002 U	0.0220 U	0.0370 U	1.0	0.005 U	0.0408
39-86	08/19/88	3	0.0051 U	0.0002 U	0.0220 U	0.0370 U	1.0	0.005 U	0.0076 U
39-86	11/10/88	4	0.0051 U	0.0002 U	0.0220 U	0.0370 U	0.8	0.005 U	0.0076 U
66-86	05/11/87	1	0.1277	0.0002 U	0.0220 U	0.0983	5.0 U	0.005 U	0.0076 U
66-86	05/28/87	2	0.1474	0.0002 U	0.0220 U	0.0370 U	5.0 U	0.005 U	0.0076 U
66-86	07/17/87	3	DRY						
66-86	10/19/87	4	DRY						
66-86	03/31/88	1	0.0167	0.0002 U	0.0220 U	0.0415	1.0	0.005 U	0.0076 U
66-86	06/02/88	2	0.0092	0.0002 U	0.0220 U	0.0370 U	1.7	0.005 U	0.0076 U
66-86	10/07/88		DRY						
66-86	12/23/88		DRY						
67-86	05/11/87	1	0.0051 U	0.0002 U	0.0220 U	0.0370 U	5.0 U	0.005 U	0.0076 U

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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
39-86	06/03/87	2	15.5111	0.4562	0.01 U	0.0240 U	0.0200 U
39-86	07/24/87	3	16.2862	0.4936	0.01 U	0.0289	0.0563
39-86	09/03/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
39-86	12/12/87	4	14.7377	0.4650	0.01 U	0.0240 U	0.0279
39-86	03/09/88	1	16.2557	0.5017	0.01 U	0.0258	0.0200 U
39-86	05/04/88	2	15.9310	0.4938	0.01 U	0.0360 U	0.0262
39-86	08/19/88	3	18.1539	0.4820	0.010 U	0.0360 U	0.0241
39-86	11/10/88	4	16.8616	0.5387	0.01 U	0.0360 U	0.0436
66-86	05/11/87	1	23.3693	0.2074	0.0100 U	0.0240 U	0.02 U
66-86	05/28/87	2	28.6255	0.2748	0.01 U	0.0240 U	0.0200 U
66-86	07/17/87	3	DRY				
66-86	10/19/87	4	DRY				
66-86	03/31/88	1	29.4104	0.1921	0.010 U	0.0360 U	0.0466
66-86	06/02/88	2	21.1230	0.1450	0.01 U	0.0360 U	0.0281
66-86	10/07/88		DRY				
66-86	12/23/88		DRY				
67-86	05/11/87	1	91.2838	1.2075	0.0100 U	0.0240 U	0.02 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
67-86	06/01/87	2	0.0290 U	0.06 U	0.01 U	0.1412	0.005 U	0.005 U	85.1284
67-86	07/20/87	3	0.0379	0.02 U	0.005 U	0.0824	0.005 U	0.001 U	84.8549
67-86	10/22/87	4	DRY						
67-86	03/09/88	1	DRY						
67-86	05/04/88	2	DRY						
67-86	11/17/88		DRY						
26-87	11/19/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
26-87	11/20/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
26-87	03/09/88	1	DRY						
26-87	05/11/88	2	DRY						
26-87	08/18/88	3	DRY						
26-87	11/17/88		DRY						
37-86	07/27/87	3	DRY						
37-86	12/10/87	4	DRY						
37-86	03/07/88	1	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
67-86	06/01/87	2	0.2 U	0.0100 U	0.0063 U	0.0069 U	0.022	NR	33.2019
67-86	07/20/87	3	0.02 U	0.0100 U	0.0175	0.0531	0.005 U	NR	32.6420
67-86	10/22/87	4	DRY						
67-86	03/09/88	1	DRY						
67-86	05/04/88	2	DRY						
67-86	11/17/88		DRY						
26-87	11/19/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
26-87	11/20/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
26-87	03/09/88	1	DRY						
26-87	05/11/88	2	DRY						
26-87	08/18/88	3	DRY						
26-87	11/17/88		DRY						
37-86	07/27/87	3	DRY						
37-86	12/10/87	4	DRY						
37-86	03/07/88	1	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
67-86	06/01/87	2	0.0051 U	0.0002 U	0.0220 U	0.0370 U	5.0 U	0.005 U	0.0076 U
67-86	07/20/87	3	0.0051 U	0.0002 U	0.0220 U	0.0370 U	0.8	0.003 J	0.0076 U
67-86	10/22/87	4	DRY						
67-86	03/09/88	1	DRY						
67-86	05/04/88	2	DRY						
67-86	11/17/88		DRY						
26-87	11/19/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
26-87	11/20/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
26-87	03/09/88	1	DRY						
26-87	05/11/88	2	DRY						
26-87	08/18/88	3	DRY						
26-87	11/17/88		DRY						
37-86	07/27/87	3	DRY						
37-86	12/10/87	4	DRY						
37-86	03/07/88	1	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
67-86	06/01/87	2	80.9195	1.0895	0.01 U	0.0240 U	0.0677
67-86	07/20/87	3	91.2942	1.0861	0.01 U	0.0359	0.0200 U
67-86	10/22/87	4	DRY				
67-86	03/09/88	1	DRY				
67-86	05/04/88	2	DRY				
67-86	11/17/88		DRY				
26-87	11/19/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
26-87	11/20/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
26-87	03/09/88	1	DRY				
26-87	05/11/88	2	DRY				
26-87	08/18/88	3	DRY				
26-87	11/17/88		DRY				
37-86	07/27/87	3	DRY				
37-86	12/10/87	4	DRY				
37-86	03/07/88	1	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
37-86	05/09/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
37-86	08/11/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
37-86	11/08/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
38-86	05/06/87	1	0.0290 U	0.0600 U	0.01 U	0.1336	0.005 U	0.005 U	366.5145
38-86	06/03/87	2	0.0290 U	0.06 U	0.01 U	0.0635	0.005 U	0.005 U	210.7304
38-86	07/28/87	3	0.1383	0.007 J	0.005 U	0.0686	0.005 U	0.0007 J	391.0784
38-86	12/10/87	4	DRY						
38-86	03/31/88	1	0.0290 U	0.0340 U	0.005 U	0.0473	0.0010 U	0.0050 U	231.7949
38-86	06/01/88	2	0.0332	0.1030	0.005 U	0.0461	0.0010 U	0.0050 U	228.4062
38-86	10/04/88		DRY						
38-86	12/23/88		DRY						
35-87	11/20/87	4	DRY						
35-87	03/09/88	1	DRY						
35-87	05/04/88	2	DRY						
35-87	08/18/88	3	DRY						
35-87	11/17/88		DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
37-86	05/09/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
37-86	08/11/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
37-86	11/08/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
38-86	05/06/87	1	0.2 U	0.0100 U	0.1002	0.0069 U	0.005 U	NR	92.9234
38-86	06/03/87	2	0.2 U	0.0100 U	0.0179	0.0069 U	0.005 U	NR	65.5377
38-86	07/28/87	3	0.02 U	0.0100 U	0.0095	0.0902	0.005 U	NR	127.6756
38-86	12/10/87	4	DRY						
38-86	03/31/88	1	0.020 U	0.0100 U	0.0124	0.1255	0.005 U	0.15	73.4006
38-86	06/01/88	2	0.02 U	0.0172	0.0114	0.0411	0.005 U	NR	79.9000
38-86	10/04/88		DRY						
38-86	12/23/88		DRY						
35-87	11/20/87	4	DRY						
35-87	03/09/88	1	DRY						
35-87	05/04/88	2	DRY						
35-87	08/18/88	3	DRY						
35-87	11/17/88		DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
37-86	05/09/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
37-86	08/11/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
37-86	11/08/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
38-86	05/06/87	1	0.2236	0.0002 U	0.0220 U	0.1277	7.0	0.006	0.0076 U
38-86	06/03/87	2	0.0433	0.0002 U	0.0220 U	0.3368	5.4	0.005 U	0.0076 U
38-86	07/28/87	3	1.0320	0.0002 U	0.0220 U	0.5639	3.0	0.003 J	0.0076 U
38-86	12/10/87	4	DRY						
38-86	03/31/88	1	1.0614	0.0002 U	0.0220 U	0.7804	2.9	0.005 U	0.0076 U
38-86	06/01/88	2	0.6925	0.0002 U	0.0220 U	0.3223	3.7	0.005 U	0.0076 U
38-86	10/04/88		DRY						
38-86	12/23/88		DRY						
35-87	11/20/87	4	DRY						
35-87	03/09/88	1	DRY						
35-87	05/04/88	2	DRY						
35-87	08/18/88	3	DRY						
35-87	11/17/88		DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
37-86	05/09/88	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
37-86	08/11/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
37-86	11/08/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
38-86	05/06/87	1	229.6521	2.8140	0.01 U	0.0240 U	0.02 U
38-86	06/03/87	2	172.8750	1.9654	0.01 U	0.0240 U	0.0268
38-86	07/28/87	3	289.2273	4.5789	0.01 U	0.0240 U	0.0346
38-86	12/10/87	4	DRY				
38-86	03/31/88	1	181.6792	2.2999	0.010 U	0.0360 U	0.0494
38-86	06/01/88	2	183.8775	2.5278	0.01 U	0.0360 U	0.0325
38-86	10/04/88		DRY				
38-86	12/23/88		DRY				
35-87	11/20/87	4	DRY				
35-87	03/09/88	1	DRY				
35-87	05/04/88	2	DRY				
35-87	08/18/88	3	DRY				
35-87	11/17/88		DRY				

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
33-87	11/20/87	4	DRY						
33-87	03/09/88	1	DRY						
33-87	05/11/88	2	DRY						
33-87	08/24/88	3	DRY						
33-87	11/17/88		DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
33-87	11/20/87	4	DRY						
33-87	03/09/88	1	DRY						
33-87	05/11/88	2	DRY						
33-87	08/24/88	3	DRY						
33-87	11/17/88		DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
33-87	11/20/87	4	DRY						
33-87	03/09/88	1	DRY						
33-87	05/11/88	2	DRY						
33-87	08/24/88	3	DRY						
33-87	11/17/88		DRY						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
33-87	11/20/87	4	DRY				
33-87	03/09/88	1	DRY				
33-87	05/11/88	2	DRY				
33-87	08/24/88	3	DRY				
33-87	11/17/88		DRY				

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
42-86	03/12/87	1	526	57.0	7.20	70.0	171
42-86	05/26/87	2	468	34.7	5.9	24.0	297
42-86	07/23/87	3	475	50.5	4.10	20.0	279
42-86	09/03/87	3	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
42-86	10/14/87	4	483	42.1	5.58	18.0	322
42-86	03/03/88	1	465	37.0	4.76	26.6	183
42-86	05/04/88	2	401	35.6	4.30	16.5	209
42-86	08/25/88	3	268 J	33.3 J	0.02	16.8 J	170 J
42-86	11/17/88	4	384	40.7	4.26	16.9	292
27-87	10/26/87	4	DRY				
27-87	03/09/88	1	DRY				
27-87	05/11/88	2	DRY				
27-87	08/23/88	3	391 J	31.1 J	9.23	58.6 J	212 J
27-87	08/23/88	3	396 J	30.5 J	9.92 J	57.9 J	221 J
27-87	11/17/88	4	407	33.0	7.32	77.3	189
32-87	10/26/87	4	623	35.9	15.45	74	243
32-87	10/26/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
32-87	03/09/88	1	564	32.5	14.4	103	140
32-87	05/12/88	2	630	32.4	10.1	113	240
32-87	08/23/88	3	480 J	36.7 J	4.70 J	59.6 J	289 J
32-87	11/17/88	4	453	39.6	3.77	77.6	273
41-86	05/06/87	1	480	36.9	9.60	65.0	249
41-86	06/01/87	2	442	33.0	9.80	62.5	231
41-86	07/20/87	3	427	34.0	10.9	66.1	233
41-86	10/22/87	4	492	33.9	10.5	62.0	246
41-86	10/22/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
41-86	12/16/87	4	1806	947	0.02 U	58.0	99.6
41-86	03/10/88	1	460	32.1	13.6	78.5	126
41-86	05/04/88	2	510	32.5	13.0	55.0	220
41-86	08/24/88	3	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
41-86	11/22/88	4	474	10.9	6.69	70.1	261
39-86	05/06/87	1	407	31.9	7.20	60.0	218
39-86	06/03/87	2	389	27.6	6.40	60.0	212
39-86	07/24/87	3	396	31.9	4.80	57.5	209
39-86	09/03/87	3	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
39-86	12/12/87	4	415	34.9	5.89	65.3	242
39-86	03/09/88	1	429	33.5	7.11	42.4	134
39-86	05/04/88	2	436	34.3	6.60	53.0	223
39-86	08/19/88	3	381 J	30.9 J	5.86 J	53.1 J	241 J
39-86	11/10/88	4	412	40.1	5.77	64.6	219
66-86	05/11/87	1	193	17.0	0.20 U	26.5	100
66-86	05/28/87	2	249	19.8	0.20 U	33.0	150
66-86	07/17/87	3	DRY				
66-86	10/19/87	4	DRY				
66-86	03/31/88	1	209	42.6	0.09	27.0	73.9
66-86	06/02/88	2	163	20.1	0.02 U	24.8	83.9
66-86	10/07/88		DRY				
66-86	12/23/88		DRY				
67-86	05/11/87	1	560	43.8	4.90	70.0	358
67-86	06/01/87	2	566	47.2	3.80	110	333
67-86	07/20/87	3	564	46.5	3.4	95.5	344
67-86	10/22/87	4	DRY				

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
67-86	03/09/88	1	DRY				
67-86	05/04/88	2	DRY				
67-86	11/17/88		DRY				
26-87	11/19/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
26-87	11/20/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
26-87	03/09/88	1	DRY				
26-87	05/11/88	2	DRY				
26-87	08/18/88	3	DRY				
26-87	11/17/88		DRY				
37-86	07/27/87	3	DRY				
37-86	12/10/87	4	DRY				
37-86	03/07/88	1	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
37-86	05/09/88	2	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
37-86	08/11/88	3	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
37-86	11/08/88	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
38-86	05/06/87	1	2032	275	0.20	820	411
38-86	06/03/87	2	1774	261	0.22	610	455
38-86	07/28/87	3	2181	209	0.21	780	412
38-86	12/10/87	4	DRY				
38-86	03/31/88	1	1715	138	0.02 U	540	292
38-86	06/01/88	2	1942	132	0.02 U	740	370
38-86	10/04/88		DRY				
38-86	12/23/88		DRY				
35-87	11/20/87	4	DRY				
35-87	03/09/88	1	DRY				
35-87	05/04/88	2	DRY				
35-87	08/18/88	3	DRY				
35-87	11/17/88		DRY				
33-87	11/20/87	4	DRY				
33-87	03/09/88	1	DRY				
33-87	05/11/88	2	DRY				

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
33-87	08/24/88	3	DRY				
33-87	11/17/88		DRY				

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Gross Alpha PCI/L	(MDA)	Gross Beta PCI/L	(MDA)	Strontium 89, 90 PCI/L	(MDA)	Plutonium 239, 240 PCI/L	(MDA)
42-86	03/12/87	1	See total radiochemistry.							
42-86	05/26/87	2	See total radiochemistry.							
42-86	07/23/87	3	215 ± 157		144 ± 62		<1.0		.36 ± .74	
42-86	09/03/87	3	***							
42-86	10/14/87	4	12 ± 5		7 ± 9		1.3		0.00 ± .08	.31
42-86	03/03/88	1	5 ± 5	8	-5 ± 9	22	NR		0.18 ± 0.13	0.52
42-86	05/04/88	2	7 ± 3		10 ± 11	24	NR		0.00 ± 0.03	0.13
42-86	08/25/88	3	4 ± 1		4 ± 1		NR		0.00 ± 0.04	
42-86	11/17/88	4	Data not yet received							
27-87	10/26/87	4	DRY							
27-87	03/09/88	1	DRY							
27-87	05/11/88	2	DRY							
27-87	08/23/88	3	7 ± 2		8 ± 2		NR		0.00 ± 0.04	
27-87	08/23/88	3	6 ± 2		8 ± 2		NR		0.00 ± 0.04	
27-87	11/17/88	4	Data not yet received							
32-87	10/26/87	4	78 ± 50		61 ± 48		NR		NR	
32-87	10/26/87	4	***							
32-87	03/09/88	1	15 ± 9		7 ± 19		NR		0.00 ± 0.13	

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Americium 241 PCI/L	(MDA)	Tritium PCI/L	(MDA)	Total Uranium PCI/L
42-86	03/12/87	1	See total radiochemistry.				
42-86	05/26/87	2	See total radiochemistry.				
42-86	07/23/87	3	0.0 ± 2.8	0.5	<502		5.4
42-86	09/03/87	3	***				
42-86	10/14/87	4	0.00 ± .06	.21	560 ± 290		3.3
42-86	03/03/88	1	0.00 ± 1.2	3.1	<200		3.5
42-86	05/04/88	2	NR		<220		3.1
42-86	08/25/88	3	0.01 ± 0.08		200		3.4
42-86	11/17/88	4	Data not yet received				
27-87	10/26/87	4	DRY				
27-87	03/09/88	1	DRY				
27-87	05/11/88	2	DRY				
27-87	08/23/88	3	0.00 ± 0.08		200		7.7
27-87	08/23/88	3	0.00 ± 0.08		200		8.0
27-87	11/17/88	4	Data not yet received				
32-87	10/26/87	4	NR		<460		0.0
32-87	10/26/87	4	***				
32-87	03/09/88	1	NR		200		4.3

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Gross Alpha PCI/L	(MDA)	Gross Beta PCI/L	(MDA)	Strontium 89, 90 PCI/L	(MDA)	Plutonium 239, 240 PCI/L	(MDA)
32-87	05/12/88	2	19 ± 6		4 ± 14	33	NR		0.00 ± 0.04	0.20
32-87	08/23/88	3	4 ± 1		5 ± 1		NR		0.00 ± 0.04	
32-87	11/17/88	4	Data not yet received							
41-86	05/06/87	1	See total radiochemistry.							
41-86	06/01/87	2	See total radiochemistry.							
41-86	07/20/87	3	0 ± 24	46	85 ± 48		1.2		-.04 ± .66	0.6
41-86	10/22/87	4	11 ± 7		21 ± 10		<1.0		0.00 ± .11	.49
41-86	10/22/87	4	***							
41-86	12/16/87	4	***							
41-86	03/10/88	1	19 ± 8		31 ± 15		NR		0.00 ± 0.11	
41-86	05/04/88	2	9 ± 4		16 ± 10	23	NR		0.00 ± 0.03	0.19
41-86	08/24/88	3	***							
41-86	11/22/88	4	Data not yet received							
39-86	05/06/87	1	See total radiochemistry.							
39-86	06/03/87	2	See total radiochemistry.							
39-86	07/24/87	3	4 ± 21	39	21 ± 43	79	1.2		-.05 ± .60	0.5
39-86	09/03/87	3	***							
39-86	12/12/87	4	25 ± 8		32 ± 13		1.4		0.00 ± .18	1.2
39-86	03/09/88	1	26 ± 11		24 ± 18		NR		0.00 ± 0.1	

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Americium 241 PCI/L	(MDA)	Tritium PCI/L	(MDA)	Total Uranium PCI/L
32-87	05/12/88	2	0.10 ± 0.09	0.91	<200		7.4
32-87	08/23/88	3	0.00 ± 0.08		200		5.1
32-87	11/17/88	4	Data not yet received				
41-86	05/06/87	1	See total radiochemistry.				
41-86	06/01/87	2	See total radiochemistry.				
41-86	07/20/87	3	.27 ± .57	0.7	<475		2.8
41-86	10/22/87	4	0.00 ± .15	1.0	<520		4.7
41-86	10/22/87	4	***				
41-86	12/16/87	4	***				
41-86	03/10/88	1	0.00 ± 0.26		220		5.7
41-86	05/04/88	2	NR		<200		5.7
41-86	08/24/88	3	***				
41-86	11/22/88	4	Data not yet received				
39-86	05/06/87	1	See total radiochemistry.				
39-86	06/03/87	2	See total radiochemistry.				
39-86	07/24/87	3	.38 ± .53	0.6	<502		4.6
39-86	09/03/87	3	***				
39-86	12/12/87	4	0.00 ± .10	.66	<210		3.8
39-86	03/09/88	1	0.00 ± 0.07		200		3.8

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Gross Alpha PCI/L	(MDA)	Gross Beta PCI/L	(MDA)	Strontium 89, 90 PCI/L	(MDA)	Plutonium 239, 240 PCI/L	(MDA)
39-86	05/04/88	2	7 ± 4		9 ± 10	23	NR		0.00 ± 0.03	0.13
39-86	08/19/88	3	4 ± 1		4 ± 1		NR		0.02 ± 0.04	
39-86	11/10/88	4	Data not yet received							
66-86	05/11/87	1	See total radiochemistry.							
66-86	05/28/87	2	See total radiochemistry.							
66-86	07/17/87	3	DRY							
66-86	10/19/87	4	DRY							
66-86	03/31/88	1	12 ± 5		3 ± 11	25	NR		0.00 ± 0.16	0.57
66-86	06/02/88	2	1 ± 4	9	6 ± 8	18	NR		0.00 ± 0.04	0.11
66-86	10/07/88		DRY							
66-86	12/23/88		DRY							
67-86	05/11/87	1	See total radiochemistry.							
67-86	06/01/87	2	See total radiochemistry.							
67-86	07/20/87	3	19 ± 33	49	49 ± 44		1.1		.25 ± .80	0.9
67-86	10/22/87	4	DRY							
67-86	03/09/88	1	DRY							
67-86	05/04/88	2	DRY							
67-86	11/17/88		DRY							

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Americium 241 PCI/L	(MDA)	Tritium PCI/L	(MDA)	Total Uranium PCI/L
39-86	05/04/88	2	0.03 ± 0.10	0.62	<220		3.8
39-86	08/19/88	3	0.07 ± 0.08		200		4.0
39-86	11/10/88	4	Data not yet received				
66-86	05/11/87	1	See total radiochemistry.				
66-86	05/28/87	2	See total radiochemistry.				
66-86	07/17/87	3	DRY				
66-86	10/19/87	4	DRY				
66-86	03/31/88	1	0.00 ± 0.40	1.3	<210		0.6
66-86	06/02/88	2	0.00 ± 0.10	0.36	<210		0.1
66-86	10/07/88		DRY				
66-86	12/23/88		DRY				
67-86	05/11/87	1	See total radiochemistry.				
67-86	06/01/87	2	See total radiochemistry.				
67-86	07/20/87	3	0.6 ± 1.4	2.1	<475		4.1
67-86	10/22/87	4	DRY				
67-86	03/09/88	1	DRY				
67-86	05/04/88	2	DRY				
67-86	11/17/88		DRY				

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Gross Alpha PCI/L	(MDA)	Gross Beta PCI/L	(MDA)	Strontium 89, 90 PCI/L	(MDA)	Plutonium 239, 240 PCI/L	(MDA)
26-87	11/19/87	4	***							
26-87	11/20/87	4	***							
26-87	03/09/88	1	DRY							
26-87	05/11/88	2	DRY							
26-87	08/18/88	3	DRY							
26-87	11/17/88		DRY							
37-86	07/27/87	3	DRY							
37-86	12/10/87	4	DRY							
37-86	03/07/88	1	***							
37-86	05/09/88	2	***							
37-86	08/11/88	3	***							
37-86	11/08/88	4	***							
38-86	05/06/87	1	See total radiochemistry.							
38-86	06/03/87	2	See total radiochemistry.							
38-86	07/28/87	3	NR		NR		NR		1.9 ± 8.8	0.8
38-86	12/10/87	4	DRY							
38-86	03/31/88	1	55 ± 9		20 ± 12	26	NR		0.00 ± 0.10	0.59

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Americium 241 PCI/L	(MDA)	Tritium PCI/L	(MDA)	Total Uranium PCI/L
26-87	11/19/87	4	***				
26-87	11/20/87	4	***				
26-87	03/09/88	1	DRY				
26-87	05/11/88	2	DRY				
26-87	08/18/88	3	DRY				
26-87	11/17/88		DRY				
37-86	07/27/87	3	DRY				
37-86	12/10/87	4	DRY				
37-86	03/07/88	1	***				
37-86	05/09/88	2	***				
37-86	08/11/88	3	***				
37-86	11/08/88	4	***				
38-86	05/06/87	1	See total radiochemistry.				
38-86	06/03/87	2	See total radiochemistry.				
38-86	07/28/87	3	NR		<540		0.0
38-86	12/10/87	4	DRY				
38-86	03/31/88	1	0.00 ± 0.15	0.83	<210		50.0

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Gross Alpha PCI/L	(MDA)	Gross Beta PCI/L	(MDA)	Strontium 89, 90 PCI/L	(MDA)	Plutonium 239, 240 PCI/L	(MDA)
38-86	06/01/88	2	67 ± 12		41 ± 15		NR		0.00 ± 0.04	0.13
38-86	10/04/88		DRY							
38-86	12/23/88		DRY							
35-87	11/20/87	4	DRY							
35-87	03/09/88	1	DRY							
35-87	05/04/88	2	DRY							
35-87	08/18/88	3	DRY							
35-87	11/17/88		DRY							
33-87	11/20/87	4	DRY							
33-87	03/09/88	1	DRY							
33-87	05/11/88	2	DRY							
33-87	08/24/88	3	DRY							
33-87	11/17/88		DRY							

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

EAST TRENCHES ALLUVIAL WELLS

Well Number	Date Sampled	Qtr.	Americium 241 PCI/L	(MDA)	Tritium PCI/L	(MDA)	Total Uranium PCI/L
38-86	06/01/88	2	0.00 ± 0.10	0.50	<210		52.0
38-86	10/04/88		DRY				
38-86	12/23/88		DRY				
35-87	11/20/87	4	DRY				
35-87	03/09/88	1	DRY				
35-87	05/04/88	2	DRY				
35-87	08/18/88	3	DRY				
35-87	11/17/88		DRY				
33-87	11/20/87	4	DRY				
33-87	03/09/88	1	DRY				
33-87	05/11/88	2	DRY				
33-87	08/24/88	3	DRY				
33-87	11/17/88		DRY				

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

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Chloro methane ug/l	Bromo methane ug/l	Vinyl Chloride ug/l	Chloro ethane ug/l	Methylene Chloride ug/l	Acetone ug/l	Carbon Disulfide ug/l
36-87	02/15/89	1	10 U	10 U	10 U	10 U	5 U	10 U	5 U
36-87	05/08/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U
34-87	02/20/89	1	10 U	10 U	10 U	10 U	5 U	10 U	5 U
34-87	05/10/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U
28-87	02/20/89	1	10 U	10 U	10 U	10 U	5 U	10 U	5 U
28-87	05/08/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U
31-87	02/22/89	1	10 U	10 U	10 U	10 U	5 U	10 U	5 U
31-87	05/10/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U
40-86	02/15/89	1	10 U	10 U	10 U	10 U	6 UJ	10 U	5 U
40-86	02/15/89	1	10 U	10 U	10 U	10 U	5 U	10 U	5 U
40-86	05/10/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U
03-74	02/15/89	1	DRY						
03-74	05/08/89	2	10 U	10 U	10 U	10 U	5 U	10 U	5 U

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B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	1,1-Di-chloro ethene ug/l	1,1-Di-chloro ethane ug/l	Total-1,2-Dichloro ethene ug/l	Chloroform ug/l	1,2-Di-chloro ethane ug/l	2-Butanone ug/l	1,1,1-Tri chloro ethane ug/l
36-87	02/15/89	1	32	5 U	5 U	270	5 U	10 U R	63
36-87	05/08/89	2	22 J	5 U	5 U	290E	5 U	10 U R	5 U
34-87	02/20/89	1	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
34-87	05/10/89	2	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
28-87	02/20/89	1	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
28-87	05/08/89	2	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
31-87	02/22/89	1	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
31-87	05/10/89	2	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
40-86	02/15/89	1	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
40-86	02/15/89	1	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
40-86	05/10/89	2	5 U	5 U	5 U	5 U	5 U	10 U R	5 U
03-74	02/15/89	1	DRY						
03-74	05/08/89	2	5 U	5 U	5 U	11 J	5 U	10 U R	5 U

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U = Analyzed but not detected
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N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Carbon Tetra chloride ug/l	Vinyl Acetate ug/l	Bromo dichloro methane ug/l	1,2-Di-chloro propane ug/l	Cis-1,3-Dichloro propene ug/l	Trichloro ethene ug/l	Dibromo chloro methane ug/l
36-87	02/15/89	1	620	10 U	5 U	5 U	5 U	49000	5 U
36-87	05/08/89	2	610	10 U	5 U	5 U	5 U	12000	5 U
34-87	02/20/89	1	5 U	10 U	5 U	5 U	5 U	5 U	5 U
34-87	05/10/89	2	5 U	10 U	5 U	5 U	5 U	10	5 U
28-87	02/20/89	1	5 U	10 U	5 U	5 U	5 U	5 U	5 U
28-87	05/08/89	2	5 U	10 U	5 U	5 U	5 U	5 U	5 U
31-87	02/22/89	1	5 U	10 U	5 U	5 U	5 U	5 U	5 U
31-87	05/10/89	2	5 U	10 U	5 U	5 U	5 U	5 U	5 U
40-86	02/15/89	1	5 U	10 U	5 U	5 U	5 U	18	5 U
40-86	02/15/89	1	5 U	10 U	5 U	5 U	5 U	5 U	5 U
40-86	05/10/89	2	5 U	10 U	5 U	5 U	5 U	5 U	5 U
03-74	02/15/89	1	DRY						
03-74	05/08/89	2	1100	10 U	5 U	5 U	5 U	25	5 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	1,1,2-Tri chloro ethane ug/l	Benzene ug/l	Trans-1,3- Dichloro propene ug/l	2-Chloro ethylvinyl ether ug/l	Bromoform ug/l	4-Methyl- 2-penta none ug/l	2-Hexanone ug/l
36-87	02/15/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
36-87	05/08/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
34-87	02/20/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
34-87	05/10/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
28-87	02/20/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
28-87	05/08/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
31-87	02/22/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
31-87	05/10/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
40-86	02/15/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
40-86	02/15/89	1	5 U	5 U	5 U	NR	5 U	10 U	10 U
40-86	05/10/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U
03-74	02/15/89	1	DRY						
03-74	05/08/89	2	5 U	5 U	5 U	NR	5 U	10 U	10 U

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
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Groundwater Volatile Organic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Tetra chloro ethene ug/l	1,1,2,2-Tetrachloro ethane ug/l	Toluene ug/l	Chloro benzene ug/l	Ethyl benzene ug/l	Styrene ug/l	Total Xylenes ug/l
36-87	02/15/89	1	260	5 U	5 U	5 U	5 U	5 U	5 U
36-87	05/08/89	2	350E	5 U	2 J	5 U	5 U	5 U	5 U
34-87	02/20/89	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
34-87	05/10/89	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U
28-87	02/20/89	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
28-87	05/08/89	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U
31-87	02/22/89	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
31-87	05/10/89	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U
40-86	02/15/89	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
40-86	02/15/89	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
40-86	05/10/89	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U
03-74	02/15/89	1	DRY						
03-74	05/08/89	2	50	5 U	5 U	5 U	5 U	5 U	5 U

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
36-87	11/05/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
36-87	11/05/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
36-87	11/06/87	4	0.0327	NR	NR	0.1858	NR	NR	98.4384
36-87	03/09/88	1	0.0290 U	0.02 U	0.005 U	0.1700	0.005 U	0.001 U	110.3891
36-87	05/04/88	2	0.0680	0.0340 U	0.005 U	0.1176	0.0010 U	0.0050 U	104.1592
36-87	08/19/88	3	0.0290 U	0.0340 U	0.005 U	0.1435	0.0010 U	0.0050 U	112.5575
36-87	11/10/88	4	0.0294	0.0340 U	0.005 U	0.1669	0.0010 U	0.0050 U	111.3045
34-87	03/09/88	1	0.0290 U	0.02 U	0.007	0.0424	0.005 U	0.001 U	192.5822
34-87	05/12/88	2	0.1194	0.0340 U	0.005 U	0.0486	0.0010 U	0.0050 U	19.3843
34-87	05/12/88	2	0.1204	0.0340 U	0.005 U	0.0463	0.0010 U	0.0050 U	17.8546
34-87	08/24/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
34-87	09/28/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
34-87	11/16/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
28-87	03/14/88	1	0.0290 U	0.02 U	0.004 J	0.0238	0.005 U	0.001	13.1315
28-87	05/12/88	2	0.2705	0.0340 U	0.005 U	0.0913	0.0010 U	0.0050 U	19.9311
28-87	08/22/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
28-87	11/16/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

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
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Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
36-87	11/05/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
36-87	11/05/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
36-87	11/06/87	4	NR	0.0100 U	0.0109	0.0261	NR	NR	9.6752
36-87	03/09/88	1	0.02 U	0.0100 U	0.0063 U	0.0122	0.005 U	0.1 U	8.5566
36-87	05/04/88	2	0.02 U	0.0220	0.0065	0.0303	0.005 U	NR	8.5449
36-87	08/19/88	3	0.020 U	0.0154	0.0063 U	0.0295	0.005 U	NR	8.6749
36-87	11/10/88	4	0.02 U	0.0100 U	0.0063 U	0.0118	0.005 U	NR	8.8751
34-87	03/09/88	1	0.02 U	0.0123	0.0063 U	0.9745	0.005 U	0.22	63.8066
34-87	05/12/88	2	0.02 U	0.0109	0.0125	0.0874	0.005 U	NR	2.9255
34-87	05/12/88	2	0.02 U	0.0111	0.0128	0.0802	0.005 U	NR	2.8998
34-87	08/24/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
34-87	09/28/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
34-87	11/16/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
28-87	03/14/88	1	0.02 U	0.0100 U	0.0063 U	0.0143	0.005 U	0.1 U	1.7166
28-87	05/12/88	2	0.02 U	0.0100 U	0.0463	0.1786	0.005 U	NR	3.1309
28-87	08/22/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
28-87	11/16/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

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
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Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
36-87	11/05/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
36-87	11/05/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
36-87	11/06/87	4	0.3544	NR	0.0220 U	0.0548	NR	NR	0.0076 U
36-87	03/09/88	1	0.0916	0.0002 U	0.0220 U	0.0370 U	0.7	0.005 U	0.0076 U
36-87	05/04/88	2	0.0486	0.0002 U	0.0220 U	0.0370 U	0.9	0.005 U	0.0076 U
36-87	08/19/88	3	0.0499	0.0002 U	0.0220 U	0.0370 U	0.9	0.005 U	0.0076 U
36-87	11/10/88	4	0.0879	0.0002 U	0.0220 U	0.0370 U	0.9	0.005 U	0.0076 U
34-87	03/09/88	1	0.1477	0.0002 U	0.0243	0.0370 U	7.6	0.005 U	0.0076 U
34-87	05/12/88	2	0.0105	0.0002 U	0.0323	0.0370 U	2.5	0.005 U	0.0076 U
34-87	05/12/88	2	0.0106	0.0002 U	0.0358	0.0370 U	2.5	0.005 U	0.0076 U
34-87	08/24/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
34-87	09/28/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
34-87	11/16/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
28-87	03/14/88	1	0.0092	0.0002 U	0.0251	0.0370 U	14	0.003 J	0.0076 U
28-87	05/12/88	2	0.0304	0.0002 U	0.1347	0.0370 U	5.2	0.005 U	0.0076 U
28-87	08/22/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
28-87	11/16/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

NR = Analyte not reported
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* = Holding time not met
E = Estimated value
J = Present below detection limit
B = Present in laboratory blank
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Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
36-87	11/05/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
36-87	11/05/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
36-87	11/06/87	4	11.0671	0.3658	NR	0.0240 U	0.0365
36-87	03/09/88	1	9.3131	0.2984	0.01 U	0.0240 U	0.0225
36-87	05/04/88	2	9.4793	0.2872	0.01 U	0.0360 U	0.0200 U
36-87	08/19/88	3	8.8509	0.2950	0.010 U	0.0360 U	0.0200 U
36-87	11/10/88	4	9.2711	0.3325	0.01 U	0.0360 U	0.0227
34-87	03/09/88	1	219.1568	2.5972	0.01 U	0.0240 U	0.0200 U
34-87	05/12/88	2	74.7950	0.2137	0.01 U	0.0360 U	0.0334
34-87	05/12/88	2	67.5259	0.1978	0.01 U	0.0360 U	0.0294
34-87	08/24/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
34-87	09/28/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
34-87	11/16/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
28-87	03/14/88	1	19.3060	0.1373	0.01 U	0.0240 U	0.0200 U
28-87	05/12/88	2	92.0039	0.2427	0.01 U	0.0992	0.0489
28-87	08/22/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
28-87	11/16/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
31-87	10/28/87	4	0.2634	NR	NR	0.0562	NR	NR	15.3345
31-87	10/28/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
31-87	03/10/88	1	0.0864	0.02 U	0.019	0.0146	0.005 U	0.0025	21.9756
31-87	05/12/88	2	0.2029	0.0340 U	0.008	0.0472	0.0010 U	0.0050 U	20.2619
31-87	08/25/88	3	0.0419	0.0340 U	0.0053	0.0408	0.0010 U	0.0050 U	22.0879
31-87	11/22/88	4	0.1283	0.0340 U	0.004 J	0.0224	0.0010 U	0.0050 U	21.8225
40-86	05/06/87	1	0.4668	0.06 U	0.0100 U	0.0719	0.005 U	0.0050 U	152.5210
40-86	06/01/87	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
40-86	07/21/87	3	DRY						
40-86	10/26/87	4	0.0561	0.02 U	0.005 U	0.0729	0.005 U	0.0003 J	75.2480
40-86	10/26/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
40-86	03/10/88	1	0.0290 U	0.02 U	0.005 U	0.0540	0.005 U	0.004	76.2347
40-86	05/12/88	2	0.0290 U	0.0340 U	0.005 U	0.0476	0.0010 U	0.0050 U	67.6288
40-86	08/24/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
40-86	11/16/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
03-74	03/17/87	1	0.3854	0.06 U	0.01 U	0.2881	0.005 U	0.005 U	134.7004

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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
31-87	10/28/87	4	NR	0.0260	0.0141	0.1701	NR	NR	0.1157
31-87	10/28/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
31-87	03/10/88	1	0.02 U	0.0100 U	0.0063 U	0.0371	0.005 U	0.1 U	0.1307
31-87	05/12/88	2	0.02 U	0.0100 U	0.0121	0.0906	0.005 U	NR	0.3730
31-87	08/25/88	3	0.020 U	0.0100 U	0.0106	0.0239	0.005 U	NR	0.7221
31-87	11/22/88	4	0.02 U	0.0100 U	0.0063 U	0.1436	0.005 U	NR	1.0221
40-86	05/06/87	1	0.2 U	0.0100 U	0.0130	0.2441	0.0050 U	NR	31.2705
40-86	06/01/87	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
40-86	07/21/87	3	DRY						
40-86	10/26/87	4	0.02 U	0.0270	0.0092	0.0955	0.005 U	0.04 J	17.0217
40-86	10/26/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
40-86	03/10/88	1	0.02 U	0.0100 U	0.0063 U	0.0227	0.005 U	0.1 U	17.6838
40-86	05/12/88	2	0.02 U	0.0100 U	0.0101	0.0228	0.005 U	NR	18.6570
40-86	08/24/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
40-86	11/16/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
03-74	03/17/87	1	0.2 U	0.0100 U	0.0085	0.0580	0.005 U	NR	11.9124

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
31-87	10/28/87	4	0.0051 U	NR	0.0568	0.0370 U	NR	NR	0.0076 U
31-87	10/28/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
31-87	03/10/88	1	0.0051 U	0.0002 U	0.0464	0.0370 U	4.3	0.005 U	0.0076 U
31-87	05/12/88	2	0.0051 U	0.0002 U	0.0408	0.0370 U	3.0	0.005 U	0.0076 U
31-87	08/25/88	3	0.0051 U	0.0002 U	0.0440	0.0370 U	3.0	0.005 U	0.0076 U
31-87	11/22/88	4	0.0051 U	0.0002 U	0.0309	0.0370 U	2.2	0.005 U	0.0076 U
40-86	05/06/87	1	0.5351	0.0002 U	0.1035	0.0551	6.0	0.005 U	0.0076 U
40-86	06/01/87	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
40-86	07/21/87	3	DRY						
40-86	10/26/87	4	0.1816	0.0002 U	0.0497	0.0468	3.9	0.005	0.0076 U
40-86	10/26/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
40-86	03/10/88	1	0.0432	0.0002 U	0.0256	0.0370 U	5.3	0.004 J	0.0291
40-86	05/12/88	2	0.0125	0.0002 U	0.0220 U	0.0378	3.8	0.005 U	0.0076 U
40-86	08/24/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
40-86	11/16/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
03-74	03/17/87	1	0.0625	0.0002 U	0.0220 U	0.0370 U	5.0 U	0.005 U	0.0076 U

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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
31-87	10/28/87	4	78.5306	0.1768	NR	0.1137	0.0237
31-87	10/28/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
31-87	03/10/88	1	67.1358	0.1962	0.01 U	0.0240 U	0.0200 U
31-87	05/12/88	2	69.2078	0.1697	0.01 U	0.0360 U	0.0258
31-87	08/25/88	3	72.9478	0.2119	0.010 U	0.0360 U	0.0306
31-87	11/22/88	4	80.6209	0.2277	0.01 U	0.0360 U	0.1041
40-86	05/06/87	1	134.5506	1.4881	0.0100 U	0.0240 U	0.05
40-86	06/01/87	2	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
40-86	07/21/87	3	DRY				
40-86	10/26/87	4	101.0152	0.8204	0.01 U	0.0240 U	0.0229
40-86	10/26/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
40-86	03/10/88	1	99.9352	0.8327	0.01 U	0.0240 U	0.0269
40-86	05/12/88	2	90.0279	0.7155	0.01 U	0.0360 U	0.0380
40-86	08/24/88	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
40-86	11/16/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
03-74	03/17/87	1	21.9046	0.4007	0.01 U	0.0240 U	0.36

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
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Aluminum (Al), diss. mg/l	Antimony (Sb), diss. mg/l	Arsenic (As), diss. mg/l	Barium (Ba), diss. mg/l	Beryllium (Be), diss. mg/l	Cadmium (Cd), diss. mg/l	Calcium (Ca), diss. mg/l
03-74	06/03/87	2	0.0290 U	0.06 U	0.01 U	0.2045	0.005 U	0.005 U	111.5307
03-74	07/23/87	3	0.0290 U	0.02 U	0.005 U	0.1884	0.005 U	0.001 U	126.5740
03-74	08/11/87	3	DRY						
03-74	09/03/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
03-74	10/22/87	4	0.0356	0.02 U	0.005 U	0.1988	0.003 J	0.001 U	105.9805
03-74	10/22/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
03-74	03/07/88	1	0.0909	0.02 U	0.005 U	0.1971	0.005 U	0.001 U	115.2379
03-74	05/04/88	2	0.0419	0.0340 U	0.005 U	0.1904	0.0010 U	0.0050 U	12.6524
03-74	08/19/88	3	0.0290 U	0.0340 U	0.005 U	0.1959	0.0010 U	0.0050 U	117.0657
03-74	11/10/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Cesium (Cs), diss. mg/l	Chromium (Cr), diss. mg/l	Copper (Cu), diss. mg/l	Iron (Fe), diss. mg/l	Lead (Pb), diss. mg/l	Lithium (Li), diss. mg/l	Magnesium (Mg), diss. mg/l
03-74	06/03/87	2	0.2 U	0.0100 U	0.0063 U	0.0069 U	0.005 U	NR	11.0585
03-74	07/23/87	3	0.02 U	0.0100 U	0.0064	0.0086	0.005 U	NR	11.1472
03-74	08/11/87	3	DRY						
03-74	09/03/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
03-74	10/22/87	4	0.02 U	0.1223	0.0104	0.3480	0.001 J	0.01 J	10.2265
03-74	10/22/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
03-74	03/07/88	1	0.02 U	0.0100 U	0.0242	0.0513	0.005 U	0.1 U	10.8145
03-74	05/04/88	2	0.02 U	0.0100 U	0.0118	0.0077	0.007	NR	11.4483
03-74	08/19/88	3	0.020 U	0.0107	0.0063 U	0.0278	0.005 U	NR	10.5830
03-74	11/10/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Manganese (Mn), diss. mg/l	Mercury (Hg), diss. mg/l	Molybdenum (Mo), diss. mg/l	Nickel (Ni), diss. mg/l	Potassium (K), diss. mg/l	Selenium (Se), diss. mg/l	Silver (Ag), diss. mg/l
03-74	06/03/87	2	0.0051 U	0.0002 U	0.0220 U	0.0452	5.0 U	0.005 U	0.0076 U
03-74	07/23/87	3	0.0051 U	0.0002 U	0.0220 U	0.0370 U	0.9	0.004 J	0.0076 U
03-74	08/11/87	3	DRY						
03-74	09/03/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
03-74	10/22/87	4	0.0051 U	0.0002 U	0.0220 U	0.0370 U	1.0	0.003 J	0.0076 U
03-74	10/22/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						
03-74	03/07/88	1	0.0051 U	0.0002 U	0.0220 U	0.0370 U	0.9	0.005 U	0.0076 U
03-74	05/04/88	2	0.0051 U	0.0002 U	0.0220 U	0.0370 U	1.0	0.005 U	0.0161
03-74	08/19/88	3	0.0051 U	0.0002 U	0.0220 U	0.0370 U	0.9	0.005 U	0.0076 U
03-74	11/10/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS						

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Dissolved Metals Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Sodium (Na), diss. mg/l	Strontium (Sr), diss. mg/l	Thallium (Tl), diss. mg/l	Vanadium (V), diss. mg/l	Zinc (Zn), diss. mg/l
03-74	06/03/87	2	29.1251	0.3992	0.01 U	0.0240 U	0.0200 U
03-74	07/23/87	3	31.6352	0.3951	0.01 U	0.0240 U	0.0200 U
03-74	08/11/87	3	DRY				
03-74	09/03/87	3	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
03-74	10/22/87	4	21.8861	0.3549	0.01 U	0.0240 U	0.0330
03-74	10/22/87	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				
03-74	03/07/88	1	22.4269	0.3905	0.01 U	0.0240 U	0.0233
03-74	05/04/88	2	20.8114	0.3817	0.01 U	0.0360 U	0.0200 U
03-74	08/19/88	3	22.0883	0.3533	0.010 U	0.0360 U	0.0202
03-74	11/10/88	4	INSUFFICIENT SAMPLE FOR METALS ANALYSIS				

NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank
* = Holding time not met
N = Batch spike not in 80-120% range
E = Estimated value
R = Data rejected during validation.

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
36-87	11/05/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
36-87	11/05/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
36-87	11/06/87	4	375	218	4.57	43.5	218
36-87	03/09/88	1	395	29.6	4.78	34.4	133
36-87	05/04/88	2	405	29.9	4.40	33.0	212
36-87	08/19/88	3	431 J	34.2 J	4.12 J	40.5 J	240 J
36-87	11/10/88	4	390	41.7	4.42	42.4	208
34-87	03/09/88	1	288	5.37	0.17	114	61.4
34-87	05/12/88	2	319	4.58	0.05	100	127
34-87	05/12/88	2	314	3.94	0.06	97.0	125
34-87	08/24/88	3	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
34-87	09/28/88	3	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
34-87	11/16/88	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
28-87	03/14/88	1	137	6.27	0.09	32.0	38.1
28-87	05/12/88	2	516	23.4	0.04	130	93.6
28-87	08/22/88	3	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
28-87	11/16/88	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
31-87	10/28/87	4	346	10.3	0.20 U	125	60.8

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
31-87	10/28/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
31-87	03/10/88	1	293	9.45	0.07	176	35.3
31-87	05/12/88	2	312	9.01	0.17	115	67.6
31-87	08/25/88	3	308 J	9.07 J	3.55	113 J	94.1 J
31-87	11/22/88	4	293	38.9	0.02	138	93.0
40-86	05/06/87	1	1011	19.9	1.40	470	205
40-86	06/01/87	2	NR	14.9	NR	390	NR
40-86	07/21/87	3	DRY				
40-86	10/26/87	4	679	8.79	6.62	218	255
40-86	10/26/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
40-86	03/10/88	1	598	7.56	3.77	131	180
40-86	05/12/88	2	576	7.24	3.80	135	293
40-86	08/24/88	3	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
40-86	11/16/88	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
03-74	03/17/87	1	441	56.0	9.60	30.0	273
03-74	06/03/87	2	490	52.3	3.75	43.0	267
03-74	07/23/87	3	489	122	6.2	42.0	256

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Inorganic Results

For Wells at Rockwell (Rocky Flats)

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Total Dissolved Solids MG/L	Chloride MG/L	Nitrate+ Nitrite-Nitrogen MG/L	Sulfate MG/L	HCO3- MG/L
03-74	08/11/87	3	DRY				
03-74	09/03/87	3	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
03-74	10/22/87	4	465	46.2	6.84	39.5	276
03-74	10/22/87	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				
03-74	03/07/88	1	478	48.7	7.35	19.8	156
03-74	05/04/88	2	476	47.4	6.30	23.5	222
03-74	08/19/88	3	409 J	43.2 J	6.47 J	20.1 J	267 J
03-74	11/10/88	4	INSUFFICIENT SAMPLE FOR INORGANIC ANALYSIS				

Notes: NR = Analyte not reported
J = Present below detection limit
U = Analyzed but not detected
B = Present in laboratory blank

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Gross Alpha PCI/L	(MDA)	Gross Beta PCI/L	(MDA)	Strontium 89, 90 PCI/L	(MDA)	Plutonium 239, 240 PCI/L	(MDA)
36-87	11/05/87	4	***							
36-87	11/05/87	4	***							
36-87	11/06/87	4	2 ± 20		-6 ± 39		NR		NR	
36-87	03/09/88	1	17 ± 7		23 ± 14		NR		0.00 ± 0.12	
36-87	05/04/88	2	10 ± 4		21 ± 11	24	NR		0.00 ± 0.05	0.10
36-87	08/19/88	3	2 ± 1		2 ± 1		NR		0.03 ± 0.04	
36-87	11/10/88	4	Data not yet received							
34-87	03/09/88	1	4 ± 10		16 ± 16		NR		0.00 ± 0.15	
34-87	05/12/88	2	1 ± 5	12	7 ± 8	19	NR		0.00 ± 0.03	0.16
34-87	05/12/88	2	6 ± 4	7	4 ± 8	18	NR		0.00 ± 0.03	0.14
34-87	08/24/88	3	***							
34-87	09/28/88	3	***							
34-87	11/16/88	4	***							
28-87	03/14/88	1	6 ± 5		14 ± 12		NR		0.00 ± 0.23	
28-87	05/12/88	2	4 ± 4	8	-10 ± 15	36	NR		0.00 ± 0.03	0.14
28-87	08/22/88	3	***							
28-87	11/16/88	4	***							
31-87	10/28/87	4	36 ± 34		26 ± 43		NR		NR	
31-87	10/28/87	4	***							

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Americium 241 PCI/L	(MDA)	Tritium PCI/L	(MDA)	Total Uranium PCI/L
36-87	11/05/87	4	***				
36-87	11/05/87	4	***				
36-87	11/06/87	4	NR		NR		0.0
36-87	03/09/88	1	0.00 ± 0.15		210 ± 92		2.7
36-87	05/04/88	2	NR		<220		1.7
36-87	08/19/88	3	0.04 ± 0.08		310 ± 90		2.3
36-87	11/10/88	4	Data not yet received				
34-87	03/09/88	1	0.00 ± 0.24		200		3.8
34-87	05/12/88	2	0.03 ± 0.12	0.72	<210		4.8
34-87	05/12/88	2	0.00 ± 0.09	0.53	<210		4.8
34-87	08/24/88	3	***				
34-87	09/28/88	3	***				
34-87	11/16/88	4	***				
28-87	03/14/88	1	0.00 ± 0.29		210		1.2
28-87	05/12/88	2	0.01 ± 0.07	0.65	<220		6.8
28-87	08/22/88	3	***				
28-87	11/16/88	4	***				
31-87	10/28/87	4	NR		<460		0.0
31-87	10/28/87	4	***				

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Gross Alpha PCI/L	(MDA)	Gross Beta PCI/L	(MDA)	Strontium 89, 90 PCI/L	(MDA)	Plutonium 239, 240 PCI/L	(MDA)
31-87	03/10/88	1	14 ± 8		15 ± 16		NR		0.00 ± 0.11	
31-87	05/12/88	2	12 ± 6		2 ± 14	32	NR		0.00 ± 0.04	0.19
31-87	08/25/88	3	1 ± 1		4 ± 1		NR		0.00 ± 0.04	
31-87	11/22/88	4	Data not yet received							
40-86	05/06/87	1	See total radiochemistry.							
40-86	06/01/87	2	***							
40-86	07/21/87	3	DRY							
40-86	10/26/87	4	106 ± 18		207 ± 15		<1.0		0.00 ± .14	.84
40-86	10/26/87	4	***							
40-86	03/10/88	1	46 ± 16		23 ± 16		NR		0.00 ± 0.11	
40-86	05/12/88	2	17 ± 6		2 ± 14	33	NR		0.00 ± 0.03	0.18
40-86	08/24/88	3	***							
40-86	11/16/88	4	***							
03-74	03/17/87	1	See total radiochemistry.							
03-74	06/03/87	2	See total radiochemistry.							
03-74	07/23/87	3	6 ± 22	40	25 ± 41	73	<1.0		.10 ± .69	0.7
03-74	08/11/87	3	DRY							
03-74	09/03/87	3	***							
03-74	10/22/87	4	250 ± 52		327 ± 20		<1.0		0.00 ± .10	.12

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Americium 241 PCI/L	(MDA)	Tritium PCI/L	(MDA)	Total Uranium PCI/L
31-87	03/10/88	1	0.00 ± 0.17		220		0.0
31-87	05/12/88	2	0.03 ± 0.09	1.4	<200		0.5
31-87	08/25/88	3	0.08 ± 0.08		200		1.6
31-87	11/22/88	4	Data not yet received				
40-86	05/06/87	1	See total radiochemistry.				
40-86	06/01/87	2	***				
40-86	07/21/87	3	DRY				
40-86	10/26/87	4	0.00 ± 1.6	4.4	<460		10.3
40-86	10/26/87	4	***				
40-86	03/10/88	1	0.00 ± 0.53		220		10.0
40-86	05/12/88	2	0.00 ± 0.09	0.89	<210		7.1
40-86	08/24/88	3	***				
40-86	11/16/88	4	***				
03-74	03/17/87	1	See total radiochemistry.				
03-74	06/03/87	2	See total radiochemistry.				
03-74	07/23/87	3	-.04 ± .28	0.5	<475		3.8
03-74	08/11/87	3	DRY				
03-74	09/03/87	3	***				
03-74	10/22/87	4	0.00 ± .08	.39	<520		3.7

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Gross Alpha PCI/L	(MDA)	Gross Beta PCI/L	(MDA)	Strontium 89, 90 PCI/L	(MDA)	Plutonium 239, 240 PCI/L	(MDA)
03-74	10/22/87	4	***							
03-74	03/07/88	1	10 ± 7		9 ± 15		NR		0.00 ± 0.16	
03-74	05/04/88	2	7 ± 3		6 ± 10	22	NR		0.01 ± 0.04	0.14
03-74	08/19/88	3	5 ± 1		4 ± 1		NR		0.03 ± 0.04	
03-74	11/10/88	4	***							

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

Groundwater Dissolved Radiochemistry Results

for Regulated Units at Rocky Flats Plant

EAST TRENCHES BEDROCK WELLS

Well Number	Date Sampled	Qtr.	Americium 241 PCI/L	(MDA)	Tritium PCI/L	(MDA)	Total Uranium PCI/L
03-74	10/22/87	4	***				
03-74	03/07/88	1	0.00 ± 0.25		210		4.0
03-74	05/04/88	2	0.00 ± 0.10	0.44	<220		3.5
03-74	08/19/88	3	0.03 ± 0.08		230 ± 90		3.7
03-74	11/10/88	4	***				

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