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REMEDIAL ACTION PLAN AND SITE DESIGN FOR STABILIZATION OF THE INACTIVE URANIUM MILL TAILINGS SITES AT SLICK ROCK, COLORADO

APPENDIX C TO ATTACHMENT 3, CALCULATIONS

Final

September 1995

Appendix B of the
Cooperative Agreement
No. DE-FC04-81AL16257

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APPENDIX C TO ATTACHMENT 3
CALCULATIONS

<u>Calculation Number</u>	<u>Title</u>
SRK-05-93-14-10-00	Slick Rock Processing Sites (SRK 01) Background Ground Water Quality
SRK-05-93-12-07-00	Slick Rock Processing Sites (SRK 01) Lysimeter Water Quality
SRK-05-93-14-11-00	Slick Rock Processing Sites (SRK 01) On-Site and Downgradient Ground Water Quality
SRK-05-93-12-10-00	Slick Rock Disposal Site (SRK 02) Background Ground Water Quality
SRK-05-93-14-06-00	Burro Canyon Disposal Site, Slick Rock, Colorado, Calculation of Average Hydraulic Gradients and Average Linear Ground Water Velocities in the Upper, Middle, and Lower Sandstone Units of the Burro Canyon Formation
SRK-06-91-14-03-00	Slick Rock - Burro Canyon Disposal Site, Burro Canyon Pumping and Slug Tests: Analyses
SRK-09-94-12-01-00	Water Balance and Surface Contours - Burro Canyon Disposal Cell
SRK-11-94-14-09-00	Analytical Calculation of Drawdown in a Hypothetical Well Completed in the Upper Sandstone Unit of the Burro Canyon Formation

J.D. 6/15/93
KM 6/15/93

JE JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

CALCULATION COVER SHEET

CALC NO. SRK 05931410 DISCIPLINE Hydro

NO. OF SHEETS 117 A
115

PROJECT:

UMTRA

SITE:

SLICK ROLL Processing sites (SRK 01.)

FEATURE:

Background Groundwater Quality

SOURCES OF DATA:

UMTRA DART system

SOURCES OF FORMULAE & REFERENCES:

UMTRA DART system.

PRELIMINARY CALC. ☐ FINAL CALC. ☐ SUPERSEDES CALC. NO. _____

00	N/A	J. Thompson	6/17/93	Kathy Marks	6/15/93		
REV. NO.	REVISION	CALCULATION BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE

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BACKGROUND GROUNDWATER QUALITY
SLICKROCK PROCESSING SITES (SRK01)
CALC # SRK-05-93-14-10

A. PURPOSE OF CALCULATION

To determine background groundwater quality of the Dolores River alluvium, and the Entrada and Navajo Sandstone Formations at both the Union Carbide (UC) and North Continent (NC) processing sites at Slick Rock, Colorado.

B. OVERVIEW OF METHOD

Groundwater quality data were collected from eight groundwater monitoring wells installed by the Department of Energy (DOE). These wells are: 501, 505, 551, 558, 668, 686, 687, and 703. Wells 501 and 686 (NC site), and 505 (UC site) are upgradient wells completed in Dolores River alluvium. Wells 551 and 703 (UC site) are upgradient wells completed in the Entrada Sandstone Formation. Wells 558 and 668 (UC site), and 687 (NC site) are upgradient wells completed in the Navajo Sandstone Formation. All monitor well locations are shown in Figures 1 and 2.

Groundwater quality data were collected and analyzed for a period from July 1, 1986 to November 13, 1992.

C. ASSUMPTIONS

- o The data at each location was not averaged before statistical calculations were preformed.
- o Chemical constituents were analyzed with approved and established procedures.
- o Quality control procedures were used during all sampling activities.

D. MATERIAL PROPERTIES

There are three hydrostratigraphic units which correspond to the three formations of interest at the Slick Rock sites: Dolores River alluvium, Entrada Sandstone, and Navajo Sandstone. The Dolores River alluvium is composed of unconsolidated clayey sands, sandy

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gravels, and cobbles from the ground surface to an approximate depth of 20 feet (6 meters) at both the UC and NC sites. The depth to groundwater in the Dolores River alluvium at both processing sites ranges from 10 to 20 ft (3 to 6 meters). The average hydraulic conductivity of the Dolores River alluvium is 22.8 ft/day (8.0×10^{-3} cm/s) at the NC site and 13.3 ft/day (4.7×10^{-3} cm/s) at the UC site. The average linear groundwater velocity in the alluvium at the NC site is estimated at 100 ft/yr (1.5×10^{-4} cm/s) and 150 ft/yr (2.4×10^{-4} cm/s) at the UC site.

The Entrada Sandstone underlies the Dolores River alluvium and consists of two members: the Slick Rock Member and the Dewey Bridge Member. The Slick Rock Member underlies the alluvium at the NC site but pinches out under the UC site. The erosive Slick Rock Member is composed of light brown fine-grained sand that generally is not well cemented. The Dewey Bridge Member underlies the Slick Rock Member at the NC site and directly underlies the Dolores River alluvium at the UC site. The Dewey Bridge Member ranges from 20 to 38 feet thick (6 to 12 meters) and is the most impermeable section, consisting of reddish-brown clayey siltstone, very fine-grained sandstone, and shale. The depth to groundwater in the Entrada Sandstone is approximately 27 to 45 feet (8 to 14 meters) depending on location.

The Navajo Sandstone underlies the Entrada Sandstone throughout the Slick Rock area at depths ranging from 53 to 170 feet (16 to 52 meters). The Navajo Sandstone consists of light-brown to reddish-brown, fine-grained sandstone. The bottom of this unit was not encountered in any of the DOE borings, thus the thickness has not been determined in the immediate area. The depths to groundwater in the Navajo Sandstone vary from 40 to 75 feet (12 to 23 meters) at the UC site and from 25 to 60 feet (8 to 18 meters) at the NC site. In the Navajo Sandstone the hydraulic conductivity is estimated to range from 6.6×10^{-6} to 1.9×10^{-1} ft/day (2.3×10^{-6} to 67×10^{-6} cm/s) and averages 2.4×10^{-2} ft/day (8.5×10^{-6} cm/s). The average linear groundwater velocity in the Navajo Sandstone is 1 ft/yr (1.0×10^{-6} cm/s).

Groundwater flow is unconfined in the Dolores River alluvium and in general is semi-confined in the underlying Entrada and Navajo Sandstone Formations. These three formations are hydraulically connected, and groundwater elevations remain relatively constant, regardless of the time of year.

E. DATA SOURCES

Groundwater quality data are stored in the UMTRA data base management system. This information is reproduced in the attached tables. Tables 1 - 4 lists background groundwater quality data and statistics by parameter for the Slick Rock processing site (UC or NC) for the Dolores River alluvium. Tables 5 and 6 list the same for the Entrada Sandstone Formation. Tables 7 - 10 lists the same

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for the Navajo sandstone Formation. Note that no background monitor wells are screened in the Entrada Sandstone at the NC site.

A hazardous constituent is any constituent listed in 40 CFR 192 Table 1 and Appendix I and in 40 CFR 264 Appendix ix which has been incorporated by reference into 40 CFR 192. Table 11 is a list of inorganic and selected organic hazardous constituents.

F. CONCLUSIONS AND RECOMMENDATIONS

Table 12.1 and 12.2 present a summary of background groundwater quality of the Dolores River alluvium by presenting selected constituent parameters, the median or mean value, and the statistical maximum value for each processing site. Maximum concentration limits (MCLs) are also given as comparison values. Table 12.3 presents the same type of data for the Entrada Sandstone Formation. Again, note that no background water quality data is available for the Entrada Sandstone at the NC processing site. Table 12.4 and 12.5 present the same type of data for the Navajo Sandstone Formation for each processing site.

G. REFERENCES

UMTRA data base management system DART stores all groundwater quality data.

H. ATTACHMENTS

Figure 1 - Location of Background Monitor Wells, UC Processing Site.

Figure 2 - Location of Background Monitor Wells, NC Processing Site.

Table 1 - Background Groundwater Quality Data by Parameter in the Dolores River alluvium, UC processing site.

Table 2 - Background Groundwater Quality Statistics by Parameter in the Dolores River alluvium, UC processing site.

Table 3 - Background Groundwater Quality Data by Parameter in the Dolores River alluvium, NC processing site.

Table 4 - Background Groundwater Quality Statistics by Parameter in the Dolores River alluvium, NC processing site.

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Table 5 - Background Groundwater Quality Data by Parameter in the Entrada Sandstone, UC processing site.

Table 6 - Background Groundwater Quality Statistics by Parameter in the Entrada Sandstone, UC processing site.

Table 7 - Background Groundwater Quality Data by Parameter in the Navajo Sandstone, UC processing site.

Table 8 - Background Groundwater Quality Statistics by Parameter in the Navajo Sandstone, UC processing site.

Table 9 - Background Groundwater Quality Data by Parameter in the Navajo Sandstone, NC processing site.

Table 10 - Background Groundwater Quality Statistics by Parameter in the Navajo Sandstone, NC processing site

Table 11 - Maximum concentration of regulated constituents for groundwater protection

Table 12.1 - Summary of Selected Constituents in background Groundwater Quality in the Dolores River Alluvium, UC Processing Site

Table 12.2 - Summary of Selected Constituents in Background Groundwater Quality in the Dolores River Alluvium, NC Processing Site

Table 12.3 - Summary of Selected Constituents in Background Groundwater Quality in the Entrada Sandstone Formation, UC Processing Site

Table 12.4 - Summary of Selected Constituents in Background Groundwater Quality in the Navajo Sandstone Formation, UC Processing Site

Table 12.5 - Summary of Selected Constituents in Background Groundwater Quality in the Navajo Sandstone Formation, NC Processing Site

15 D.D.
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TABLE 1. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/17/86 TO 10/13/92
REPORT DATE: 05/04/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	0505	07/17/86	0001	AL	O	MG/L CaCO ₃		298.		-	-
	0505	10/15/87	0001	AL	O			281.		-	-
	0505	02/22/88	0001	AL	O			243.		-	-
	0505	05/16/90	0001	AL	O			307.		-	-
	0505	03/27/91	0001	AL	O			320.		-	-
	0505	12/05/91	0001	AL	O			289		-	-
	0505	10/13/92	0001	AL	O			277		-	-
ALUMINUM	0505	07/17/86	0001	AL	O	MG/L		0.2		0.1	-
	0505	10/15/87	0001	AL	O		<	0.1		0.1	-
	0505	02/22/88	0001	AL	O			0.16		0.1	-
	0505	05/16/90	0001	AL	O		<	0.1		0.1	-
	0505	03/27/91	0001	AL	O		<	0.05		0.05	-
	0505	11/21/91	0001	AL	O		<	0.05		0.05	-
	0505	10/13/92	0001	AL	O		<	0.05		0.05	-
AMMONIUM	0505	07/17/86	0001	AL	O	MG/L		5.2		0.1	-
	0505	10/15/87	0001	AL	O			4.0		0.1	-
	0505	02/22/88	0001	AL	O			4.0		0.1	-
	0505	05/16/90	0001	AL	O			4.3		0.1	-
	0505	03/27/91	0001	AL	O			2.6		0.1	-
	0505	11/21/91	0001	AL	O			4.6		0.1	-
	0505	10/13/92	0001	AL	O			1.3		0.1	-
ANTIMONY	0505	07/17/86	0001	AL	O	MG/L	<	0.003		0.003	-
	0505	05/16/90	0001	AL	O		<	0.003		0.003	-
	0505	03/27/91	0001	AL	O		<	0.005	I	0.005	-
	0505	11/21/91	0001	AL	O		<	0.003		0.003	-
	0505	10/13/92	0001	AL	O		<	0.003		0.003	-
ARSENIC	0505	07/17/86	0001	AL	O	MG/L	<	0.01		0.01	-
	0505	10/15/87	0001	AL	O		<	0.01		0.01	-
	0505	05/16/90	0001	AL	O		<	0.01		0.01	-
	0505	03/27/91	0001	AL	O		<	0.01		0.01	-
	0505	11/21/91	0001	AL	O		<	0.01		0.01	-
	0505	10/13/92	0001	AL	O		<	0.005		0.005	-
BARIUM	0505	07/17/86	0001	AL	O	MG/L		0.1		0.1	-
	0505	10/15/87	0001	AL	O		<	0.1		0.1	-
	0505	05/16/90	0001	AL	O		<	0.1		0.1	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

16 D.D
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TABLE 1. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/17/86 TO 10/13/92
REPORT DATE: 05/04/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BARIUM	0505	03/27/91	0001	AL	0	MG/L	0.03		0.01	-
	0505	11/21/91	0001	AL	0		0.03		0.01	-
	0505	10/13/92	0001	AL	0		0.03		0.01	-
BERYLLIUM	0505	05/16/90	0001	AL	0	MG/L	< 0.01		0.01	-
	0505	03/27/91	0001	AL	0		< 0.005		0.005	-
	0505	11/21/91	0001	AL	0		< 0.005		0.005	-
BORON	0505	07/17/86	0001	AL	0	MG/L	< 0.1		0.1	-
	0505	10/15/87	0001	AL	0		0.3		0.1	-
	0505	05/16/90	0001	AL	0		0.3		0.1	-
	0505	03/27/91	0001	AL	0		0.21		0.05	-
	0505	11/21/91	0001	AL	0		0.27		0.05	-
BROMIDE	0505	03/27/91	0001	AL	0	MG/L	0.2		0.1	-
	0505	11/21/91	0001	AL	0		< 0.1		0.1	-
	0505	10/13/92	0001	AL	0		< 0.5 I		0.5	-
CADMIUM	0505	07/17/86	0001	AL	0	MG/L	< 0.001		0.001	-
	0505	10/15/87	0001	AL	0		< 0.001		0.001	-
	0505	05/16/90	0001	AL	0		< 0.001		0.001	-
	0505	03/27/91	0001	AL	0		< 0.001		0.001	-
	0505	11/21/91	0001	AL	0		< 0.001		0.001	-
	0505	10/13/92	0001	AL	0		< 0.001		0.001	-
CALCIUM	0505	07/17/86	0001	AL	0	MG/L	113.		0.01	-
	0505	10/15/87	0001	AL	0		93.		0.01	-
	0505	02/22/88	0001	AL	0		102.		0.01	-
	0505	05/16/90	0001	AL	0		116.		0.01	-
	0505	03/27/91	0001	AL	0		115.		0.5	-
	0505	11/21/91	0001	AL	0		110.		0.5	-
	0505	10/13/92	0001	AL	0		115.		0.5	-
CHLORIDE	0505	07/17/86	0001	AL	0	MG/L	77.		1.	-
	0505	10/15/87	0001	AL	0		40.		1.	-
	0505	02/22/88	0001	AL	0		49.		1.	-
	0505	05/16/90	0001	AL	0		49.		1.	-
	0505	03/27/91	0001	AL	0		54.		0.5	-
	0505	11/21/91	0001	AL	0		62.		1.	-
	0505	10/13/92	0001	AL	0		49.		1.	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

17 J.2
6/15/93

TABLE 1. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/17/86 TO 10/13/92
REPORT DATE: 05/04/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CHROMIUM	0505	07/17/86	0001	AL	O	MG/L		0.07		0.01	-
	0505	10/15/87	0001	AL	O		<	0.01		0.01	-
	0505	05/16/90	0001	AL	O		<	0.01		0.01	-
	0505	03/27/91	0001	AL	O		<	0.01		0.01	-
	0505	11/21/91	0001	AL	O		<	0.01		0.01	-
	0505	10/13/92	0001	AL	O		<	0.01		0.01	-
COBALT	0505	05/16/90	0001	AL	O	MG/L	<	0.05		0.05	-
	0505	03/27/91	0001	AL	O		<	0.03		0.03	-
	0505	11/21/91	0001	AL	O		<	0.03		0.03	-
COPPER	0505	07/17/86	0001	AL	O	MG/L		0.03		0.02	-
	0505	10/15/87	0001	AL	O		<	0.02		0.02	-
	0505	05/16/90	0001	AL	O		<	0.02		0.02	-
	0505	03/27/91	0001	AL	O		<	0.01		0.01	-
	0505	11/21/91	0001	AL	O		<	0.01		0.01	-
	0505	10/13/92	0001	AL	O		<	0.01		0.01	-
CYANIDE	0505	03/27/91	0001	AL	O	MG/L	<	0.01		0.01	-
	0505	11/21/91	0001	AL	O		<	0.01		0.01	-
DISSOLVED OXYGEN	0505	10/13/92	0001	AL	O	MG/L		0.0		-	-
FIELD FE (2+)	0505	10/13/92	0001	AL	O	MG/L		1.10		-	-
FIELD FE (TOTAL)	0505	10/13/92	0001	AL	O	MG/L		0.97		-	-
FLUORIDE	0505	07/17/86	0001	AL	O	MG/L		0.3		0.1	-
	0505	10/15/87	0001	AL	O			0.3		0.1	-
	0505	02/22/88	0001	AL	O			0.28		0.1	-
	0505	05/16/90	0001	AL	O			0.2		0.1	-
	0505	03/27/91	0001	AL	O			0.2		0.1	-
	0505	11/21/91	0001	AL	O			0.3		0.1	-
	0505	10/13/92	0001	AL	O			0.3		0.1	-
GROSS ALPHA	0505	03/27/91	0001	AL	O	PCI/L		23.6		1.	13.5
	0505	12/05/91	0001	AL	O			0.0		1.	17.6
	0505	10/13/92	0001	AL	O			7.7	N	16.1	10.5
GROSS BETA	0505	03/27/91	0001	AL	O	PCI/L		16.6		0.5	7.9

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS

7

18 J.A.
6/15/93

TABLE 1. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/17/86 TO 10/13/92
REPORT DATE: 05/04/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
GROSS BETA	0505	12/05/91	0001	AL	0	PCI/L		0.0		0.5	9.9
	0505	10/13/92	0001	AL	0			8.5	*N	14.5	9.0
IRON	0505	07/17/86	0001	AL	0	MG/L		0.31		0.03	-
	0505	10/15/87	0001	AL	0			0.24		0.03	-
	0505	02/22/88	0001	AL	0			0.12		0.03	-
	0505	05/16/90	0001	AL	0			0.67		0.03	-
	0505	03/27/91	0001	AL	0			0.39		0.03	-
	0505	11/21/91	0001	AL	0			0.58		0.03	-
	0505	10/13/92	0001	AL	0			0.92		0.03	-
LEAD	0505	07/17/86	0001	AL	0	MG/L	<	0.01		0.01	-
	0505	10/15/87	0001	AL	0		<	0.01		0.01	-
	0505	05/16/90	0001	AL	0		<	0.01		0.01	-
	0505	03/27/91	0001	AL	0		<	0.005		0.005	-
	0505	11/21/91	0001	AL	0		<	0.005		0.005	-
	0505	10/13/92	0001	AL	0		<	0.02	I	0.02	-
LEAD-210	0505	07/17/86	0001	AL	0	PCI/L		0.7		1.5	1.3
	0505	12/05/91	0001	AL	0			2.9		1.5	1.0
MAGNESIUM	0505	07/17/86	0001	AL	0	MG/L		52.2		0.001	-
	0505	10/15/87	0001	AL	0			41.		0.001	-
	0505	02/22/88	0001	AL	0			45.5		0.001	-
	0505	05/16/90	0001	AL	0			50.4		0.001	-
	0505	03/27/91	0001	AL	0			48.9		0.1	-
	0505	11/21/91	0001	AL	0			48.7		0.1	-
	0505	10/13/92	0001	AL	0			55.0		0.5	-
MANGANESE	0505	07/17/86	0001	AL	0	MG/L		0.38		0.01	-
	0505	10/15/87	0001	AL	0			0.22		0.01	-
	0505	02/22/88	0001	AL	0			0.24		0.01	-
	0505	05/16/90	0001	AL	0			0.39		0.01	-
	0505	03/27/91	0001	AL	0			0.34		0.01	-
	0505	11/21/91	0001	AL	0			0.37		0.01	-
	0505	10/13/92	0001	AL	0			0.39		0.01	-
MERCURY	0505	07/17/86	0001	AL	0	MG/L	<	0.0002		0.0002	-
	0505	10/15/87	0001	AL	0		<	0.0002		0.0002	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
* - DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS

8

19 J.A.
6/15/93

TABLE 1. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/17/86 TO 10/13/92
REPORT DATE: 05/04/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MERCURY	0505	05/16/90	0001	AL	O	MG/L	<	0.0002		0.0002	-
	0505	03/27/91	0001	AL	O		<	0.0002		0.0002	-
	0505	11/21/91	0001	AL	O		<	0.0002		0.0002	-
MOLYBDENUM	0505	07/17/86	0001	AL	O	MG/L		0.14		0.01	-
	0505	10/15/87	0001	AL	O			0.06		0.01	-
	0505	02/22/88	0001	AL	O			0.1		0.01	-
	0505	05/16/90	0001	AL	O			0.05		0.01	-
	0505	03/27/91	0001	AL	O			0.04		0.01	-
	0505	11/21/91	0001	AL	O			0.05		0.01	-
	0505	10/13/92	0001	AL	O			0.06		0.01	-
NET GROSS ALPHA *	0505	03/27/91	0001	AL	O	PCI/L		5.08		-	-
	0505	12/05/91	0001	AL	O			-17.15		-	-
	0505	10/13/92	0001	AL	O			-9.45		-	-
NICKEL	0505	07/17/86	0001	AL	O	MG/L	<	0.04		0.04	-
	0505	10/15/87	0001	AL	O		<	0.04		0.04	-
	0505	02/22/88	0001	AL	O			0.02	c	0.02	-
	0505	05/16/90	0001	AL	O		<	0.04		0.04	-
	0505	03/27/91	0001	AL	O		<	0.04		0.04	-
	0505	11/21/91	0001	AL	O		<	0.04		0.04	-
	0505	10/13/92	0001	AL	O		<	0.04		0.04	-
NITRATE	0505	07/17/86	0001	AL	O	MG/L	<	1.		1.	-
	0505	10/15/87	0001	AL	O		<	1.0		1.	-
	0505	02/22/88	0001	AL	O			0.4	c	0.4	-
	0505	05/16/90	0001	AL	O		<	1.		1.	-
	0505	03/27/91	0001	AL	O			12.		1.	-
	0505	11/21/91	0001	AL	O			1.3		1.	-
	0505	10/13/92	0001	AL	O			2.0		1.0	-
NITRITE AND NITRATE	0505	02/22/88	0001	AL	O	MG/L		0.4	c	0.4	-
	0505	05/16/90	0001	AL	O		<	1.		1.	-
	0505	03/27/91	0001	AL	O			2.67		0.05	-
PH	0505	07/17/86	0001	AL	O	SU		6.98		-	-
	0505	10/15/87	0001	AL	O			6.90		-	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

6

20 JJA.
6/15/9.

TABLE 1. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/17/86 TO 10/13/92
REPORT DATE: 05/04/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PH	0505	02/22/88	0001	AL	0	SU		7.15		-	-
	0505	05/16/90	0001	AL	0			7.26		-	-
	0505	03/27/91	0001	AL	0			7.00		-	-
	0505	12/05/91	0001	AL	0			7.07		-	-
	0505	10/13/92	0001	AL	0			7.28		-	-
PHOSPHATE	0505	07/17/86	0001	AL	0	MG/L	<	0.1		0.1	-
	0505	10/15/87	0001	AL	0		<	0.1		0.1	-
	0505	05/16/90	0001	AL	0		<	0.1		0.1	-
	0505	03/27/91	0001	AL	0			0.1		0.1	-
	0505	11/21/91	0001	AL	0			0.1		0.1	-
	0505	10/13/92	0001	AL	0		<	0.1	J	0.1	-
POLONIUM-210	0505	07/17/86	0001	AL	0	PCI/L	<	0.5	b	1.	0.5
	0505	12/05/91	0001	AL	0			0.2		1.	1.0
POTASSIUM	0505	07/17/86	0001	AL	0	MG/L		6.64		0.01	-
	0505	10/15/87	0001	AL	0			5.1		0.01	-
	0505	02/22/88	0001	AL	0			5.19		0.01	-
	0505	05/16/90	0001	AL	0			5.7		0.01	-
	0505	03/27/91	0001	AL	0			5.0		0.01	-
	0505	11/21/91	0001	AL	0			5.63		0.01	-
	0505	10/13/92	0001	AL	0			5.94		0.01	-
RADIUM-226	0505	07/17/86	0001	AL	0	PCI/L		0.2	c	0.4	0.2
	0505	10/15/87	0001	AL	0			0.1	c	0.2	0.1
	0505	02/22/88	0001	AL	0		<	0.1	d	0.1	0.1
	0505	05/16/90	0001	AL	0			0.9		1.	0.3
	0505	03/27/91	0001	AL	0			0.1		1.	0.1
	0505	12/05/91	0001	AL	0			0.1		1.	0.2
	0505	10/13/92	0001	AL	0			0.0		0.8	0.5
RADIUM-226 + RADIUM-228	0505	07/17/86	0001	AL	0	PCI/L		0.70		-	-
	0505	10/15/87	0001	AL	0			2.20		-	-
	0505	05/16/90	0001	AL	0			1.80		-	-
	0505	03/27/91	0001	AL	0			0.10		-	-
	0505	12/05/91	0001	AL	0			0.10		-	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE
b - CHANGED PARAMETER VALUE
c - CHANGED DETECTION LIMIT
d - CHANGED DETECTION LIMIT AND PARAMETER VALUE

21 J.L.
6/15/93

TABLE 1. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/17/86 TO 10/13/92
REPORT DATE: 05/04/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
RADIUM-226 + RADIUM-228	0505	10/13/92	0001	AL	O	PCI/L		1.60		-	-
RADIUM-228	0505	07/17/86	0001	AL	O	PCI/L	<	0.9	b	1.	0.9
	0505	10/15/87	0001	AL	O			2.1		1.	1.4
	0505	05/16/90	0001	AL	O			0.9		1.	0.7
	0505	03/27/91	0001	AL	O			0.0		1.	1.0
	0505	12/05/91	0001	AL	O			0.0		1.	1.0
	0505	10/13/92	0001	AL	O			1.6		2.4	1.6
REDOX POTENTIAL	0505	10/13/92	0001	AL	O	mVOLTS		403.9		-	-
SELENIUM	0505	07/17/86	0001	AL	O	MG/L	<	0.005		0.005	-
	0505	10/15/87	0001	AL	O		<	0.005		0.005	-
	0505	05/16/90	0001	AL	O		<	0.005		0.005	-
	0505	03/27/91	0001	AL	O		<	0.005		0.005	-
	0505	11/21/91	0001	AL	O			0.007		0.005	-
	0505	10/13/92	0001	AL	O		<	0.005		0.005	-
SILICA - SiO2	0505	07/17/86	0001	AL	O	MG/L		4.		2.	-
	0505	10/15/87	0001	AL	O			9.8		2.	-
	0505	02/22/88	0001	AL	O			8.2		2.	-
	0505	05/16/90	0001	AL	O			10.		2.	-
	0505	03/27/91	0001	AL	O			9.3		0.1	-
	0505	11/21/91	0001	AL	O			10.7		0.1	-
	0505	10/13/92	0001	AL	O			11.3		0.1	-
SILVER	0505	07/17/86	0001	AL	O	MG/L	<	0.01		0.01	-
	0505	10/15/87	0001	AL	O		<	0.01		0.01	-
	0505	05/16/90	0001	AL	O		<	0.01		0.01	-
	0505	03/27/91	0001	AL	O		<	0.01		0.01	-
	0505	11/21/91	0001	AL	O		<	0.01		0.01	-
SODIUM	0505	07/17/86	0001	AL	O	MG/L		186.		0.002	-
	0505	10/15/87	0001	AL	O			129.		0.002	-
	0505	02/22/88	0001	AL	O			129.		0.002	-
	0505	05/16/90	0001	AL	O			142.		0.002	-
	0505	03/27/91	0001	AL	O			149.		5.	-
	0505	11/21/91	0001	AL	O			151.		5.	-
	0505	10/13/92	0001	AL	O			143.		5.	-
SPECIFIC CONDUCTANCE	0505	07/17/86	0001	AL	O	UMHO/CM		1000.		-	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
b - CHANGED PARAMETER VALUE

11

23 22.2.
6/15/93

TABLE 1. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/17/86 TO 10/13/92
REPORT DATE: 05/04/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TIN	0505	07/17/86	0001	AL	0	MG/L	<	0.005		0.005	-
	0505	05/16/90	0001	AL	0		<	0.005		0.005	-
	0505	03/27/91	0001	AL	0		<	0.005		0.005	-
	0505	11/21/91	0001	AL	0		<	0.005		0.005	-
	0505	10/13/92	0001	AL	0		<	0.05	1	0.05	-
TOTAL DISSOLVED SOLIDS	0505	07/17/86	0001	AL	0	MG/L		1180.		10.	-
	0505	10/15/87	0001	AL	0			880.		10.	-
	0505	02/22/88	0001	AL	0			875.		10.	-
	0505	05/16/90	0001	AL	0			914.		10.	-
	0505	03/27/91	0001	AL	0			993.		10.	-
	0505	11/21/91	0001	AL	0			1010.		10.	-
	0505	10/13/92	0001	AL	0			1050.		10.	-
TOTAL KJELDAHL NITROGEN	0505	03/27/91	0001	AL	0	MG/L		2.		1.	-
	0505	11/21/91	0001	AL	0			3.		2.	-
TOTAL ORGANIC CARBON	0505	03/27/91	0001	AL	0	MG/L		3.		1.	-
	0505	11/21/91	0001	AL	0			3.		1.	-
	0505	10/13/92	0001	AL	0			4.		1.	-
URANIUM	0505	07/17/86	0001	AL	0	MG/L		0.0304		0.003	-
	0505	10/15/87	0001	AL	0			0.035		0.003	-
	0505	02/22/88	0001	AL	0			0.0323		0.003	-
	0505	05/16/90	0001	AL	0			0.026		0.003	-
	0505	03/27/91	0001	AL	0			0.027		0.001	-
	0505	12/05/91	0001	AL	0			0.025		0.001	-
	0505	10/13/92	0001	AL	0			0.025		0.001	-
VANADIUM	0505	07/17/86	0001	AL	0	MG/L		0.24		0.01	-
	0505	10/15/87	0001	AL	0		<	0.01		0.01	-
	0505	05/16/90	0001	AL	0			0.02		0.01	-
	0505	03/27/91	0001	AL	0		<	0.01		0.01	-
	0505	11/21/91	0001	AL	0		<	0.01		0.01	-
	0505	10/13/92	0001	AL	0		<	0.01		0.01	-
ZINC	0505	07/17/86	0001	AL	0	MG/L		0.013		0.005	-
	0505	10/15/87	0001	AL	0		<	0.005		0.005	-
	0505	05/16/90	0001	AL	0		<	0.005		0.005	-
	0505	03/27/91	0001	AL	0		<	0.03	1	0.03	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
1 - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

13

22 J.D.
6/15/93

TABLE 1. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/17/86 TO 10/13/92
REPORT DATE: 05/04/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SPECIFIC CONDUCTANCE	0505	10/15/87	0001	AL	0	UMHO/CM		900.		-	-
	0505	02/22/88	0001	AL	0			850.		-	-
	0505	05/16/90	0001	AL	0			990.		-	-
	0505	03/27/91	0001	AL	0			1126.		-	-
	0505	12/05/91	0001	AL	0			1180		-	-
	0505	10/13/92	0001	AL	0			1144		-	-
STRONTIUM	0505	05/16/90	0001	AL	0	MG/L		1.27		0.1	-
	0505	03/27/91	0001	AL	0			1.33		0.01	-
	0505	11/21/91	0001	AL	0			1.37		0.01	-
	0505	10/13/92	0001	AL	0			1.33		0.01	-
SULFATE	0505	07/17/86	0001	AL	0	MG/L		524.		0.1	-
	0505	10/15/87	0001	AL	0			380.		0.1	-
	0505	02/22/88	0001	AL	0			376.		0.1	-
	0505	05/16/90	0001	AL	0			468.		0.1	-
	0505	03/27/91	0001	AL	0			418.		10.	-
	0505	11/21/91	0001	AL	0			473.		10.	-
	0505	10/13/92	0001	AL	0			422.		50.	-
SULFIDE	0505	07/17/86	0001	AL	0	MG/L	<	0.1		0.1	-
	0505	03/27/91	0001	AL	0			0.3		0.1	-
	0505	11/21/91	0001	AL	0			0.3		0.1	-
	0505	10/13/92	0001	AL	0		<	0.1		0.1	-
TEMPERATURE	0505	07/17/86	0001	AL	0	C - DEGREE		11.5		-	-
	0505	10/15/87	0001	AL	0			13.0		-	-
	0505	02/22/88	0001	AL	0			9.5		-	-
	0505	05/16/90	0001	AL	0			10.5		-	-
	0505	03/27/91	0001	AL	0			9.0		-	-
	0505	12/05/91	0001	AL	0			12.7		-	-
	0505	10/13/92	0001	AL	0			12.7		-	-
THALLIUM	0505	05/16/90	0001	AL	0	MG/L	<	0.01		0.01	-
	0505	03/27/91	0001	AL	0		<	0.01		0.01	-
	0505	11/21/91	0001	AL	0		<	0.01		0.01	-
	0505	10/13/92	0001	AL	0		<	0.005		0.005	-
THORIUM-230	0505	07/17/86	0001	AL	0	PCI/L		0.5	c	0.9	0.4
	0505	12/05/91	0001	AL	0			1.5		1.	0.7

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

12

25 D.L.
6/15/93

TABLE 2. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/17/86 TO 10/13/92
REPORT DATE: 05/04/93

PARAMETER NAME				UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN					MINIMUM	MAXIMUM *		
ALKALINITY				MG/L CaCO3								
7	243.0000	320.0000	289.0000	287.8571		24.7685	0.0860	0.0	258.4336	317.2806	NORMAL	
ALUMINUM				MG/L								
7	** 0.0500	0.2000	0.0500	NA		NA	NA	71.4	** 0.0500	0.2000	NONPARAMETRIC	2
AMMONIUM				MG/L								
7	1.3000	5.2000	4.0000	3.7143		1.3272	0.3573	0.0	2.1377	5.2909	NORMAL	
ANTIMONY				MG/L								
5	** 0.0030	** 0.0030	** 0.0030	NA		NA	NA	100.0	** 0.0030	** 0.0030	NONPARAMETRIC	2,5
ARSENIC				MG/L								
6	** 0.0050	0.0050	+ 0.0050	NA		NA	NA	100.0	** 0.0050	0.0050	NONPARAMETRIC	2,6
BARIUM				MG/L								
6	0.0300	0.1000	+ 0.0400	NA		NA	NA	33.3	0.0300	0.1000	NONPARAMETRIC	2,6
BERYLLIUM				MG/L								
3	** 0.0050	0.0050	** 0.0050	NA		NA	NA	100.0	NA	NA	UNKNOWN	1
BORON				MG/L								
5	0.0500	0.3000	0.2700	NA		NA	NA	20.0	0.0500	0.3000	NONPARAMETRIC	2,5
BROMIDE				MG/L								
3	** 0.1000	0.2500	0.2000	NA		NA	NA	66.7	NA	NA	UNKNOWN	1

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

5) The stat. range is the 93.8% confidence interval due to a sample size of 5. The maximum is the 96.9% one sided confidence int.

6) The stat. range is the 96.9% confidence interval due to a sample size of 6. The maximum is the 98.5% one sided confidence int.

24 522
6/5/93

TABLE 1. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/17/86 TO 10/13/92
REPORT DATE: 05/04/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ZINC	0505	11/21/91	0001	AL	0	MG/L	<	0.005		0.005	-
	0505	10/13/92	0001	AL	0		<	0.005		0.005	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

DATA FILE NAME: M:\DART\SRK01\GWQ10037.DAT

27 6/15/93
D.A.

TABLE 2. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/17/86 TO 10/13/92
REPORT DATE: 05/04/93

PARAMETER NAME					UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN									
FLUORIDE				MG/L									
7	0.2000	0.3000	0.3000	0.2686		0.0474	0.1765	0.0	0.2123	0.3249		NORMAL	
GROSS ALPHA				PCI/L									
3	** 1.0000	23.6000	7.7000	NA		NA	NA	0.0	NA	NA		UNKNOWN	1
GROSS BETA				PCI/L									
3	** 0.5000	16.6000	8.5000	NA		NA	NA	0.0	NA	NA		UNKNOWN	1
IRON				MG/L									
7	0.1200	0.9200	0.3900	0.4614		0.2773	0.6010	0.0	0.1320	0.7909		NORMAL	
LEAD				MG/L									
6	** 0.0050	0.0100	+ 0.0050	NA		NA	NA	100.0	** 0.0050	0.0100		NONPARAMETRIC	2,6
LEAD-210				PCI/L									
2	** 1.5000	2.9000	+ 1.8000	NA		NA	NA	0.0	NA	NA		UNKNOWN	1
MAGNESIUM				MG/L									
7	41.0000	55.0000	48.9000	48.8143		4.5517	0.0932	0.0	43.4071	54.2215		NORMAL	
MANGANESE				MG/L									
7	0.2200	0.3900	0.3700	0.3329		0.0725	0.2178	0.0	0.2467	0.4190		NORMAL	
MERCURY				MG/L									
5	** 0.0002	** 0.0002	** 0.0002	NA		NA	NA	100.0	** 0.0002	** 0.0002		NONPARAMETRIC	2,5

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

5) The stat. range is the 93.8% confidence interval due to a sample size of 5. The maximum is the 96.9% one sided confidence int.

6) The stat. range is the 96.9% confidence interval due to a sample size of 6. The maximum is the 98.5% one sided confidence int.

26 J.L.
6/15/93

TABLE 2. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/17/86 TO 10/13/92
REPORT DATE: 05/04/93

PARAMETER NAME					UNITS					STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN									MINIMUM	MAXIMUM *		
CADMIUM					MG/L											
6	** 0.0010	** 0.0010	** 0.0010	NA		NA	NA	100.0	** 0.0010	** 0.0010	NONPARAMETRIC	2,6				
CALCIUM					MG/L											
7	93.0000	116.0000	113.0000	109.1429		8.5912	0.0787	0.0	98.9370	119.3488	NORMAL					
CHLORIDE					MG/L											
7	40.0000	77.0000	49.0000	54.2857		11.9960	0.2210	0.0	40.0351	68.5363	NORMAL					
CHROMIUM					MG/L											
6	** 0.0100	0.0700	** 0.0100	NA		NA	NA	83.3	** 0.0100	0.0700	NONPARAMETRIC	2,6				
COBALT					MG/L											
3	** 0.0300	** 0.0300	** 0.0300	NA		NA	NA	100.0	NA	NA	UNKNOWN	1				
COPPER					MG/L											
6	** 0.0100	0.0300	** 0.0100	NA		NA	NA	83.3	** 0.0100	0.0300	NONPARAMETRIC	2,6				
CYANIDE					MG/L											
2	** 0.0100	** 0.0100	** 0.0100	NA		NA	NA	100.0	NA	NA	UNKNOWN	1				
DISSOLVED OXYGEN					MG/L											
1	0.0000	0.0000	0.0000	NA		NA	NA	0.0	NA	NA	UNKNOWN	1				
FIELD FE (2+)					MG/L											
1	1.1000	1.1000	1.1000	NA		NA	NA	0.0	NA	NA	UNKNOWN	1				
FIELD FE (TOTAL)					MG/L											
1	0.9700	0.9700	0.9700	NA		NA	NA	0.0	NA	NA	UNKNOWN	1				

** The reported value is the minimum detection limit of the data set

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

6) The stat. range is the 96.9% confidence interval due to a sample size of 6. The maximum is the 98.5% one sided confidence int.

16

29 22.2
6/15/93

TABLE 2. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/17/86 TO 10/13/92
REPORT DATE: 05/04/93

PARAMETER NAME				UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN					MINIMUM	MAXIMUM *		
RADIUM-226				PCI/L								
7	** 0.1000	0.9000	0.1000	NA	NA	NA	14.3	**	0.1000	0.9000	NONPARAMETRIC	9
RADIUM-226 + RADIUM-228				PCI/L								
6	0.1000	2.2000	+ 1.1500	1.0833	0.9065	0.8367	0.0		-0.1619	2.3286	NORMAL	
RADIUM-228				PCI/L								
6	** 1.0000	2.1000	** 1.0000	NA	NA	NA	16.7	**	1.0000	2.1000	NONPARAMETRIC	2,6
REDOX POTENTIAL				mVOLTS								
1	403.9000	403.9000	403.9000	NA	NA	NA	0.0		NA	NA	UNKNOWN	1
SELENIUM				MG/L								
6	** 0.0050	0.0070	** 0.0050	NA	NA	NA	83.3	**	0.0050	0.0070	NONPARAMETRIC	2,6
SILICA - SI02				MG/L								
7	4.0000	11.3000	9.8000	9.0429	2.4337	0.2691	0.0		6.1518	11.9339	NORMAL	
SILVER				MG/L								
5	** 0.0100	** 0.0100	** 0.0100	NA	NA	NA	100.0	**	0.0100	** 0.0100	NONPARAMETRIC	2,5
SODIUM				MG/L								
7	129.0000	186.0000	143.0000	147.0000	19.2787	0.1311	0.0		124.0981	169.9019	NORMAL	
SPECIFIC CONDUCTANCE				UMHO/CM								
7	850.0000	1180.0000	1000.0000	1027.1429	126.7904	0.1234	0.0		876.5231	1177.7626	NORMAL	

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

5) The stat. range is the 93.8% confidence interval due to a sample size of 5. The maximum is the 96.9% one sided confidence int.

6) The stat. range is the 96.9% confidence interval due to a sample size of 6. The maximum is the 98.5% one sided confidence int.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

28 J.A.
6/15/93

TABLE 2. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/17/86 TO 10/13/92
REPORT DATE: 05/04/93

PARAMETER NAME					UNITS					STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION	FOOT
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	MINIMUM	MAXIMUM *	TYPE	NOTE		
MOLYBDENUM					MG/L								
7	0.0400	0.1400	0.0600	0.0714	0.0358	0.5011	0.0	0.0289	0.1139	NORMAL			
NET GROSS ALPHA ***					PCI/L								
3	-17.1500	5.0800	-9.4500	NA	NA	NA	0.0	NA	NA	UNKNOWN	1		
NICKEL					MG/L								
7	0.0200	0.0200	0.0200	NA	NA	NA	85.7	0.0200	0.0200	NONPARAMETRIC	2		
NITRATE					MG/L								
7	0.4000	12.0000	0.5000	NA	NA	NA	42.9	0.4000	12.0000	NONPARAMETRIC	2		
NITRITE AND NITRATE					MG/L								
3	0.4000	2.6700	0.5000	NA	NA	NA	33.3	NA	NA	UNKNOWN	1		
PH					SU								
7	6.9000	7.2800	7.0700	NA	NA	NA	0.0	NA	NA	UNKNOWN			
PHOSPHATE					MG/L								
6	** 0.1000	0.1000	** 0.1000	NA	NA	NA	66.7	** 0.1000	0.1000	NONPARAMETRIC	2,6		
POLONIUM-210					PCI/L								
2	** 1.0000	** 1.0000	** 1.0000	NA	NA	NA	50.0	NA	NA	UNKNOWN	1		
POTASSIUM					MG/L								
7	5.0000	6.6400	5.6300	5.6000	0.5754	0.1027	0.0	4.9165	6.2835	NORMAL			

*** NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

** The reported value is the minimum detection limit of the data set

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

6) The stat. range is the 96.9% confidence interval due to a sample size of 6. The maximum is the 98.5% one sided confidence int.

28

31 J.A.
6/15/93

TABLE 2. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/17/86 TO 10/13/92
REPORT DATE: 05/04/93

PARAMETER NAME				UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN								
TOTAL ORGANIC CARBON				MG/L								
3	3.0000	4.0000	3.0000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
URANIUM				MG/L								
7	0.0250	0.0350	0.0270	0.0287	0.0039	0.1374	0.0	0.0240	0.0334	NORMAL		
VANADIUM				MG/L								
6	** 0.0100	0.2400	** 0.0100	NA	NA	NA	66.7	** 0.0100	0.2400	NONPARAMETRIC	2,6	
ZINC				MG/L								
6	** 0.0050	0.0150	** 0.0050	NA	NA	NA	83.3	** 0.0050	0.0150	NONPARAMETRIC	2,6	

** The reported value is the minimum detection limit of the data set

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

6) The stat. range is the 96.9% confidence interval due to a sample size of 6. The maximum is the 98.5% one sided confidence int.

INPUT DATA FILENAME: M:\DART\SRK01\GWQ10030.DAT

30 J.A.
6/15/93

TABLE 2. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/17/86 TO 10/13/92
REPORT DATE: 05/04/93

PARAMETER NAME				UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN					MINIMUM	MAXIMUM *		
STRONTIUM				MG/L								
4	1.2700	1.3700	+ 1.3300	1.3250		0.0412	0.0311	0.0	1.2314	1.4186	NORMAL	
SULFATE				MG/L								
7	376.0000	524.0000	422.0000	437.2857		53.8229	0.1231	0.0	373.3472	501.2242	NORMAL	
SULFIDE				MG/L								
4	** 0.1000	0.3000	+ 0.1750	NA		NA	NA	50.0	** 0.1000	0.3000	NONPARAMETRIC	2,4
TEMPERATURE				C - DEGREE								
7	9.0000	13.0000	11.5000	11.2714		1.6337	0.1449	0.0	9.3307	13.2122	NORMAL	
THALLIUM				MG/L								
4	** 0.0050	0.0050	+ 0.0050	NA		NA	NA	100.0	** 0.0050	0.0050	NONPARAMETRIC	2,4
THORIUM-230				PCI/L								
2	** 0.9000	1.5000	+ 1.0000	NA		NA	NA	0.0	NA	NA	UNKNOWN	1
TIN				MG/L								
5	** 0.0050	0.0250	** 0.0050	NA		NA	NA	100.0	** 0.0050	0.0250	NONPARAMETRIC	2,5
TOTAL DISSOLVED SOLIDS				MG/L								
7	875.0000	1180.0000	993.0000	986.0000		108.8562	0.1104	0.0	856.6851	1115.3149	NORMAL	
TOTAL KJELDAHL NITROGEN				MG/L								
2	2.0000	3.0000	+ 2.5000	NA		NA	NA	0.0	NA	NA	UNKNOWN	1

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.

5) The stat. range is the 93.8% confidence interval due to a sample size of 5. The maximum is the 96.9% one sided confidence int.

20

33 6/15/93
D.A.

TABLE 3. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/01/86 TO 10/09/92
REPORT DATE: 05/04/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ANTIMONY	0686	04/08/87	0001	AL	O	MG/L	< 0.003		0.003	-
ARSENIC	0501	07/01/86	0001	AL	O	MG/L	< 0.01		0.01	-
	0501	10/14/87	0001	AL	O		< 0.01		0.01	-
	0501	03/29/91	0001	AL	O		< 0.01		0.01	-
	0501	08/27/91	0001	AL	O		< 0.01		0.01	-
	0501	12/09/91	0001	AL	O		< 0.01		0.01	-
	0501	10/09/92	0001	AL	O		< 0.005		0.005	-
	0686	07/17/86	0001	AL	O		< 0.01		0.01	-
	0686	10/15/87	0001	AL	O		< 0.01		0.01	-
BARIUM	0501	10/14/87	0001	AL	O	MG/L	< 0.1		0.1	-
	0501	03/29/91	0001	AL	O		0.02		0.01	-
	0501	08/27/91	0001	AL	O		0.02		0.01	-
	0501	12/09/91	0001	AL	O		0.02		0.01	-
	0501	10/09/92	0001	AL	O		0.02		0.01	-
	0686	07/17/86	0001	AL	O		0.2		0.1	-
	0686	04/08/87	0001	AL	O		< 0.1		0.1	-
	0686	10/15/87	0001	AL	O		< 0.1		0.1	-
BERYLLIUM	0501	03/29/91	0001	AL	O	MG/L	< 0.005		0.005	-
	0501	08/27/91	0001	AL	O		< 0.005		0.005	-
	0501	12/09/91	0001	AL	O		< 0.005		0.005	-
BORON	0501	10/14/87	0001	AL	O	MG/L	0.1		0.1	-
	0501	03/29/91	0001	AL	O		0.08		0.05	-
	0501	08/27/91	0001	AL	O		0.09		0.05	-
	0501	12/09/91	0001	AL	O		0.10		0.05	-
	0686	07/17/86	0001	AL	O		0.3		0.1	-
	0686	10/15/87	0001	AL	O		0.1		0.1	-
BROMIDE	0501	03/29/91	0001	AL	O	MG/L	0.2		0.1	-
	0501	08/27/91	0001	AL	O		< 0.5	I	0.5	-
	0501	12/09/91	0001	AL	O		0.2		0.1	-
	0501	10/09/92	0001	AL	O		< 0.3	I	0.3	-
CADMIUM	0501	10/14/87	0001	AL	O	MG/L	< 0.001		0.001	-
	0501	03/29/91	0001	AL	O		< 0.0005		0.0005	-
	0501	08/27/91	0001	AL	O		< 0.001		0.001	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

23

32 J.A.
6/15/93

TABLE 3. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/01/86 TO 10/09/92
REPORT DATE: 05/04/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	0501	07/01/86	0001	AL	0	MG/L CAC03		231.		-	-
	0501	10/14/87	0001	AL	0			219.		-	-
	0501	02/22/88	0001	AL	0			204.		-	-
	0501	03/29/91	0001	AL	0			254.		-	-
	0501	08/27/91	0001	AL	0			230		-	-
	0501	12/05/91	0001	AL	0			230		-	-
	0501	10/09/92	0001	AL	0			224		-	-
	0686	07/17/86	0001	AL	0			435.		-	-
	0686	04/08/87	0001	AL	0			322.		-	-
	0686	10/15/87	0001	AL	0			235.		-	-
	0686	02/22/88	0001	AL	0			222.		-	-
	0686	10/09/92	0001	AL	0			235		-	-
ALUMINUM	0501	07/01/86	0001	AL	0	MG/L		0.4		0.1	-
	0501	10/14/87	0001	AL	0		<	0.1		0.1	-
	0501	02/22/88	0001	AL	0			0.20		0.1	-
	0501	03/29/91	0001	AL	0		<	0.05		0.05	-
	0501	08/27/91	0001	AL	0		<	0.05		0.05	-
	0501	12/09/91	0001	AL	0		<	0.05		0.05	-
	0501	10/09/92	0001	AL	0		<	0.05		0.05	-
	0686	07/17/86	0001	AL	0			0.3		0.1	-
	0686	04/08/87	0001	AL	0		<	0.1		0.1	-
	0686	10/15/87	0001	AL	0		<	0.1		0.1	-
	0686	02/22/88	0001	AL	0			0.17		0.1	-
AMMONIUM	0501	10/14/87	0001	AL	0	MG/L	<	0.1		0.1	-
	0501	02/22/88	0001	AL	0		<	0.1		0.1	-
	0501	03/29/91	0001	AL	0		<	0.1		0.1	-
	0501	08/27/91	0001	AL	0		<	0.1		0.1	-
	0501	12/09/91	0001	AL	0			0.1		0.1	-
	0501	10/09/92	0001	AL	0		<	0.1		0.1	-
	0686	07/17/86	0001	AL	0		<	0.1		0.1	-
	0686	04/08/87	0001	AL	0			0.6		0.1	-
	0686	10/15/87	0001	AL	0		<	0.1		0.1	-
	0686	02/22/88	0001	AL	0		<	0.1		0.1	-
ANTIMONY	0501	03/29/91	0001	AL	0	MG/L	<	0.003		0.003	-
	0501	08/27/91	0001	AL	0		<	0.003		0.003	-
	0501	12/09/91	0001	AL	0		<	0.003		0.003	-
	0501	10/09/92	0001	AL	0		<	0.003		0.003	-
	0686	07/17/86	0001	AL	0		<	0.003		0.003	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

20

35 J.A.
6/15/93

TABLE 3. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, NC, PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/01/86 TO 10/09/92
REPORT DATE: 05/04/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
COBALT	0501	12/09/91	0001	AL	0	MG/L	< 0.03		0.03	-
COPPER	0501	10/14/87	0001	AL	0	MG/L	< 0.02		0.02	-
	0501	03/29/91	0001	AL	0		< 0.01		0.01	-
	0501	08/27/91	0001	AL	0		< 0.01		0.01	-
	0501	12/09/91	0001	AL	0		< 0.01		0.01	-
	0501	10/09/92	0001	AL	0		< 0.01		0.01	-
	0686	07/17/86	0001	AL	0		0.05		0.02	-
	0686	04/08/87	0001	AL	0		0.04		0.02	-
	0686	10/15/87	0001	AL	0		< 0.02		0.02	-
CYANIDE	0501	03/29/91	0001	AL	0	MG/L	< 0.01		0.01	-
	0501	08/27/91	0001	AL	0		< 0.01		0.01	-
	0501	12/09/91	0001	AL	0		< 0.01		0.01	-
DISSOLVED OXYGEN	0501	10/09/92	0001	AL	0	MG/L	1.3		-	-
FIELD FE (2+)	0501	10/09/92	0001	AL	0	MG/L	0.05		-	-
FIELD FE (TOTAL)	0501	10/09/92	0001	AL	0	MG/L	0.0		-	-
FLUORIDE	0501	10/14/87	0001	AL	0	MG/L	0.2		0.1	-
	0501	02/22/88	0001	AL	0		0.21		0.1	-
	0501	03/29/91	0001	AL	0		0.2		0.1	-
	0501	08/27/91	0001	AL	0		0.2		0.1	-
	0501	12/09/91	0001	AL	0		0.2		0.1	-
	0501	10/09/92	0001	AL	0		0.3		0.1	-
	0686	07/17/86	0001	AL	0		0.4		0.1	-
	0686	04/08/87	0001	AL	0		0.24		0.1	-
	0686	10/15/87	0001	AL	0		0.1		0.1	-
	0686	02/22/88	0001	AL	0		0.23		0.1	-
GROSS ALPHA	0501	03/29/91	0001	AL	0	PCI/L	20.5		1.	9.0
	0501	08/27/91	0001	AL	0		9.6		1.	6.9
	0501	12/05/91	0001	AL	0		3.6		1.	13.8
	0501	10/09/92	0001	AL	0		17.0	N	12.2	9.2
GROSS BETA	0501	03/29/91	0001	AL	0	PCI/L	9.9		0.5	4.6
	0501	08/27/91	0001	AL	0		11.5		0.5	4.3
	0501	12/05/91	0001	AL	0		0.6		0.5	7.8

FORMATION OF COMPLETION CODE:

AL - ALLUVIUM

FLOW RELATIONSHIP CODE:

0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS

25

34 J.A.
6/15/93

TABLE 3. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, HC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/01/86 TO 10/09/92
REPORT DATE: 05/04/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CADMIUM	0501	12/09/91	0001	AL	0	MG/L	<	0.001		0.001	-
	0501	10/09/92	0001	AL	0		<	0.001		0.001	-
	0686	07/17/86	0001	AL	0		<	0.001		0.001	-
	0686	04/08/87	0001	AL	0		<	0.001		0.001	-
	0686	10/15/87	0001	AL	0		<	0.001		0.001	-
	0686	02/22/88	0001	AL	0		<	0.001		0.001	-
CALCIUM	0501	07/01/86	0001	AL	0	MG/L		99.6		0.01	-
	0501	10/14/87	0001	AL	0			134.		0.01	-
	0501	02/22/88	0001	AL	0			150.		0.01	-
	0501	03/29/91	0001	AL	0			108.		0.5	-
	0501	08/27/91	0001	AL	0			114.		0.5	-
	0501	12/09/91	0001	AL	0			104.		0.5	-
	0501	10/09/92	0001	AL	0			106.		0.5	-
	0686	07/17/86	0001	AL	0			73.8		0.01	-
	0686	04/08/87	0001	AL	0			112.		0.01	-
	0686	10/15/87	0001	AL	0			111.		0.01	-
	0686	02/22/88	0001	AL	0			127.		0.01	-
	0686	02/22/88	0001	AL	0			127.		0.01	-
CHLORIDE	0501	07/01/86	0001	AL	0	MG/L		64.		1.	-
	0501	10/14/87	0001	AL	0			69.		1.	-
	0501	02/22/88	0001	AL	0			89.		1.	-
	0501	03/29/91	0001	AL	0			75.		0.5	-
	0501	08/27/91	0001	AL	0			62.		1.	-
	0501	12/09/91	0001	AL	0			59.		1.	-
	0501	10/09/92	0001	AL	0			49.		1.	-
	0686	07/17/86	0001	AL	0			40.		1.	-
	0686	04/08/87	0001	AL	0			39.3		1.	-
	0686	10/15/87	0001	AL	0			38.		1.	-
	0686	02/22/88	0001	AL	0			55.		1.	-
	0686	02/22/88	0001	AL	0			55.		1.	-
CHROMIUM	0501	10/14/87	0001	AL	0	MG/L	<	0.01		0.01	-
	0501	03/29/91	0001	AL	0		<	0.01		0.01	-
	0501	08/27/91	0001	AL	0		<	0.01		0.01	-
	0501	12/09/91	0001	AL	0		<	0.01		0.01	-
	0501	10/09/92	0001	AL	0		<	0.01		0.01	-
	0686	07/17/86	0001	AL	0		<	0.04		0.01	-
	0686	04/08/87	0001	AL	0		<	0.01		0.01	-
	0686	10/15/87	0001	AL	0		<	0.01		0.01	-
COBALT	0501	03/29/91	0001	AL	0	MG/L	<	0.03		0.03	-
	0501	08/27/91	0001	AL	0		<	0.03		0.03	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

24

37 J.A.
6/15/93

TABLE 3. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/01/86 TO 10/09/92
REPORT DATE: 05/04/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MANGANESE	0501	10/14/87	0001	AL	0	MG/L	<		0.01	-
	0501	02/22/88	0001	AL	0		<		0.01	-
	0501	03/29/91	0001	AL	0		<		0.01	-
	0501	08/27/91	0001	AL	0				0.01	-
	0501	12/09/91	0001	AL	0				0.01	-
	0501	10/09/92	0001	AL	0				0.01	-
	0686	07/17/86	0001	AL	0				0.01	-
	0686	04/08/87	0001	AL	0				0.01	-
	0686	10/15/87	0001	AL	0				0.01	-
	0686	02/22/88	0001	AL	0				0.01	-
MERCURY	0501	10/14/87	0001	AL	0	MG/L	<		0.0002	-
	0501	03/29/91	0001	AL	0		<		0.0002	-
	0501	08/27/91	0001	AL	0		<		0.0002	-
	0501	12/09/91	0001	AL	0		<		0.0002	-
	0686	07/17/86	0001	AL	0		<		0.0002	-
	0686	04/08/87	0001	AL	0		<		0.0002	-
	0686	10/15/87	0001	AL	0		<		0.0002	-
	0686	02/22/88	0001	AL	0		<		0.0002	-
	0501	07/01/86	0001	AL	0	MG/L			0.01	-
	0501	10/14/87	0001	AL	0				0.01	-
MOLYBDENUM	0501	02/22/88	0001	AL	0				0.01	-
	0501	03/29/91	0001	AL	0				0.01	-
	0501	08/27/91	0001	AL	0				0.01	-
	0501	12/09/91	0001	AL	0				0.01	-
	0501	10/09/92	0001	AL	0				0.01	-
	0501	07/17/86	0001	AL	0				0.01	-
	0686	04/08/87	0001	AL	0				0.01	-
	0686	10/15/87	0001	AL	0		<	c	0.1	-
	0686	02/22/88	0001	AL	0				0.01	-
	0501	03/29/91	0001	AL	0	PCI/L			-	-
NET GROSS ALPHA *	0501	08/27/91	0001	AL	0				-	-
	0501	12/05/91	0001	AL	0				-	-
	0501	10/09/92	0001	AL	0				-	-
	0501	10/14/87	0001	AL	0	MG/L	<	c	0.04	-
NICKEL	0501	02/22/88	0001	AL	0				0.02	-
	0501									-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

FORMATION OF COMPLETION CODE:

AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

36 JLD.
6/15/93

TABLE 3. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, MC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/01/86 TO 10/09/92
REPORT DATE: 05/04/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
GROSS BETA	0501	10/09/92	0001	AL	O	PCI/L		12.6	*N	10.6	6.9
IRON	0501	07/01/86	0001	AL	O	MG/L		0.05		0.03	-
	0501	10/14/87	0001	AL	O		<	0.03		0.03	-
	0501	02/22/88	0001	AL	O			0.05		0.03	-
	0501	03/29/91	0001	AL	O		<	0.03		0.03	-
	0501	08/27/91	0001	AL	O		<	0.03		0.03	-
	0501	12/09/91	0001	AL	O		<	0.03		0.03	-
	0501	10/09/92	0001	AL	O		<	0.03		0.03	-
	0686	07/17/86	0001	AL	O			0.07		0.03	-
	0686	04/08/87	0001	AL	O			0.06		0.03	-
	0686	10/15/87	0001	AL	O			0.58		0.03	-
	0686	02/22/88	0001	AL	O			0.65		0.03	-
LEAD	0501	10/14/87	0001	AL	O	MG/L	<	0.01		0.01	-
	0501	03/29/91	0001	AL	O		<	0.005		0.005	-
	0501	08/27/91	0001	AL	O		<	0.005		0.005	-
	0501	12/09/91	0001	AL	O		<	0.005		0.005	-
	0501	10/09/92	0001	AL	O		<	0.02	I	0.02	-
	0686	07/17/86	0001	AL	O		<	0.01		0.01	-
	0686	04/08/87	0001	AL	O		<	0.001		0.01	-
	0686	10/15/87	0001	AL	O		<	0.01		0.01	-
LEAD-210	0501	08/27/91	0001	AL	O	PCI/L		1.1		1.5	1.0
	0501	12/05/91	0001	AL	O			1.5		1.5	1.4
MAGNESIUM	0501	07/01/86	0001	AL	O	MG/L		29.		0.001	-
	0501	10/14/87	0001	AL	O			36.		0.001	-
	0501	02/22/88	0001	AL	O			41.9		0.001	-
	0501	03/29/91	0001	AL	O			28.7		0.1	-
	0501	08/27/91	0001	AL	O			30.3		0.1	-
	0501	12/09/91	0001	AL	O			28.3		0.1	-
	0501	10/09/92	0001	AL	O			27.5		0.1	-
	0686	07/17/86	0001	AL	O			20.9		0.001	-
	0686	04/08/87	0001	AL	O			30.3		0.001	-
	0686	10/15/87	0001	AL	O			26.		0.001	-
	0686	02/22/88	0001	AL	O			30.9		0.001	-
MANGANESE	0501	07/01/86	0001	AL	O	MG/L		0.04		0.01	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

- * - DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS
- I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
- N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS

26

39 M.L.
6/15/93

TABLE 3. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/01/86 TO 10/09/92
REPORT DATE: 05/04/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PHOSPHATE	0501	10/14/87	0001	AL	0	MG/L	<	0.1		0.1	-
	0501	03/29/91	0001	AL	0		<	0.1		0.1	-
	0501	08/27/91	0001	AL	0			0.1		0.1	-
	0501	12/09/91	0001	AL	0		<	0.1		0.1	-
	0501	10/09/92	0001	AL	0		<	0.1	J	0.1	-
	0686	07/17/86	0001	AL	0		<	0.1		0.1	-
	0686	04/08/87	0001	AL	0		<	0.1		0.1	-
	0686	10/15/87	0001	AL	0		<	0.1		0.1	-
POLONIUM-210	0501	08/27/91	0001	AL	0	PCI/L		0.1		1.	0.5
	0501	12/05/91	0001	AL	0			0.0		1.	0.3
POTASSIUM	0501	07/01/86	0001	AL	0	MG/L		4.75		0.01	-
	0501	10/14/87	0001	AL	0			3.8		0.01	-
	0501	02/22/88	0001	AL	0			4.42		0.01	-
	0501	03/29/91	0001	AL	0			3.9		0.01	-
	0501	08/27/91	0001	AL	0			4.1		0.01	-
	0501	12/09/91	0001	AL	0			3.82		0.01	-
	0501	10/09/92	0001	AL	0			3.96		0.01	-
	0686	07/17/86	0001	AL	0			6.08		0.01	-
	0686	04/08/87	0001	AL	0			4.35		0.01	-
	0686	10/15/87	0001	AL	0			3.3		0.01	-
	0686	02/22/88	0001	AL	0			3.42		0.01	-
RADIUM-226	0501	02/22/88	0001	AL	0	PCI/L		0.1	c	0.2	0.1
	0501	03/29/91	0001	AL	0			0.0		1.	0.1
	0501	08/27/91	0001	AL	0			0.0		1.	0.1
	0501	12/05/91	0001	AL	0			0.0		1.	0.2
	0501	10/09/92	0001	AL	0			0.0		0.8	0.4
	0686	02/22/88	0001	AL	0			0.4	c	0.6	0.2
RADIUM-226 + RADIUM-228	0501	03/29/91	0001	AL	0	PCI/L		7.80		-	-
	0501	08/27/91	0001	AL	0			1.20		-	-
	0501	12/05/91	0001	AL	0			1.50		-	-
	0501	10/09/92	0001	AL	0			0.00		-	-
RADIUM-228	0501	03/29/91	0001	AL	0	PCI/L		7.8		1.	1.2
	0501	08/27/91	0001	AL	0			1.2		1.	2.2
	0501	12/05/91	0001	AL	0			1.5		1.	0.9

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE
c - CHANGED DETECTION LIMIT

38 12.1.
6/15/93

TABLE 3. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/01/86 TO 10/09/92
REPORT DATE: 05/04/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NICKEL	0501	03/29/91	0001	AL	0	MG/L	<	0.04		0.04	-
	0501	08/27/91	0001	AL	0		<	0.04		0.04	-
	0501	12/09/91	0001	AL	0		<	0.04		0.04	-
	0501	10/09/92	0001	AL	0		<	0.04		0.04	-
	0686	07/17/86	0001	AL	0		<	0.04		0.04	-
	0686	04/08/87	0001	AL	0		<	0.04		0.04	-
	0686	10/15/87	0001	AL	0		<	0.04		0.04	-
	0686	02/22/88	0001	AL	0			0.01	c	0.01	-
NITRATE	0501	07/01/86	0001	AL	0	MG/L	<	1.		1.	-
	0501	10/14/87	0001	AL	0			1.4		1.	-
	0501	02/22/88	0001	AL	0			0.5	c	0.5	-
	0501	03/29/91	0001	AL	0		<	1.0		1.	-
	0501	08/27/91	0001	AL	0			7.3		1.	-
	0501	12/09/91	0001	AL	0		<	1.0		1.	-
	0501	10/09/92	0001	AL	0			1.4		1.0	-
	0686	07/17/86	0001	AL	0		<	1.		1.	-
	0686	04/08/87	0001	AL	0			1.6		1.	-
	0686	10/15/87	0001	AL	0		<	1.0		1.	-
	0686	02/22/88	0001	AL	0		<	0.1		1.	-
NITRITE AND NITRATE	0501	02/22/88	0001	AL	0	MG/L		0.5	c	0.5	-
	0501	03/29/91	0001	AL	0			0.20		0.05	-
	0501	08/27/91	0001	AL	0			1.64		0.05	-
	0686	02/22/88	0001	AL	0		<	0.1		1.	-
PH	0501	07/01/86	0001	AL	0	SU		7.16		-	-
	0501	10/14/87	0001	AL	0			7.17		-	-
	0501	02/22/88	0001	AL	0			7.66		-	-
	0501	05/16/90	0001	AL	0			7.36		-	-
	0501	03/29/91	0001	AL	0			7.12		-	-
	0501	08/27/91	0001	AL	0			7.12		-	-
	0501	12/05/91	0001	AL	0			7.25		-	-
	0501	10/09/92	0001	AL	0			7.15		-	-
	0686	07/17/86	0001	AL	0			7.55		-	-
	0686	04/08/87	0001	AL	0			6.98		-	-
	0686	10/15/87	0001	AL	0			6.93		-	-
	0686	02/22/88	0001	AL	0			7.24		-	-
	0686	08/06/91	0001	AL	0			7.50		-	-
	0686	10/09/92	0001	AL	0			6.89		-	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

28

41 M.A.
6/15/93

TABLE 3. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/01/86 TO 10/09/92
REPORT DATE: 05/04/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SODIUM	0686	07/17/86	0001	AL	0	MG/L		195.		0.002	-
	0686	04/08/87	0001	AL	0			98.5		0.002	-
	0686	10/15/87	0001	AL	0			92.		0.002	-
	0686	02/22/88	0001	AL	0			90.2		0.002	-
SPECIFIC CONDUCTANCE	0501	07/01/86	0001	AL	0	UMHO/CM		790.		-	-
	0501	10/14/87	0001	AL	0			950.		-	-
	0501	02/22/88	0001	AL	0			1050.		-	-
	0501	05/16/90	0001	AL	0			820.		-	-
	0501	03/29/91	0001	AL	0			1268.		-	-
	0501	08/27/91	0001	AL	0			1240		-	-
	0501	12/05/91	0001	AL	0			1229		-	-
	0501	10/09/92	0001	AL	0			709		-	-
	0686	07/17/86	0001	AL	0			600.		-	-
	0686	04/08/87	0001	AL	0			490.		-	-
	0686	10/15/87	0001	AL	0			750.		-	-
	0686	02/22/88	0001	AL	0			800.		-	-
	0686	08/06/91	0001	AL	0			1357		-	-
	0686	10/09/92	0001	AL	0			447		-	-
STRONTIUM	0501	03/29/91	0001	AL	0	MG/L		1.23		0.01	-
	0501	08/27/91	0001	AL	0			1.41		0.01	-
	0501	12/09/91	0001	AL	0			1.25		0.01	-
	0501	10/09/92	0001	AL	0			1.19		0.01	-
SULFATE	0501	07/01/86	0001	AL	0	MG/L		336.		0.1	-
	0501	10/14/87	0001	AL	0			370.		0.1	-
	0501	02/22/88	0001	AL	0			430.		0.1	-
	0501	03/29/91	0001	AL	0			323.		10.	-
	0501	08/27/91	0001	AL	0			322.		10.	-
	0501	12/09/91	0001	AL	0			348.		30.	-
	0501	10/09/92	0001	AL	0			297.		25.	-
	0686	07/17/86	0001	AL	0			223.		0.1	-
	0686	04/08/87	0001	AL	0			286.		0.1	-
	0686	10/15/87	0001	AL	0			269.		0.1	-
	0686	02/22/88	0001	AL	0			316.		0.1	-
SULFIDE	0501	07/01/86	0001	AL	0	MG/L	<	0.1		0.1	-
	0501	03/29/91	0001	AL	0			0.3		0.1	-
	0501	08/27/91	0001	AL	0			0.1		0.1	-
	0501	12/09/91	0001	AL	0			1.0		0.1	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

40 J.A.
6/15/93

TABLE 3. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/01/86 TO 10/09/92
REPORT DATE: 05/04/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
RADIUM-228	0501	10/09/92	0001	AL	O	PCI/L		0.0		2.6	1.6
REDOX POTENTIAL	0501	10/09/92	0001	AL	O	mVOLTS		452.8		-	-
	0686	10/09/92	0001	AL	O			340.5		-	-
SELENIUM	0501	07/01/86	0001	AL	O	MG/L	<	0.005		0.005	-
	0501	10/14/87	0001	AL	O		<	0.005		0.005	-
	0501	03/29/91	0001	AL	O		<	0.005		0.005	-
	0501	08/27/91	0001	AL	O		<	0.005		0.005	-
	0501	12/09/91	0001	AL	O		<	0.005		0.005	-
	0501	10/09/92	0001	AL	O		<	0.005		0.005	-
	0686	07/17/86	0001	AL	O		<	0.005		0.005	-
	0686	04/08/87	0001	AL	O		<	0.002		0.005	-
	0686	10/15/87	0001	AL	O		<	0.005		0.005	-
	0686	02/22/88	0001	AL	O		<	0.005		0.005	-
SILICA - SiO2	0501	10/14/87	0001	AL	O	MG/L		8.3		2.	-
	0501	02/22/88	0001	AL	O			9.5		2.	-
	0501	03/29/91	0001	AL	O			7.4		0.1	-
	0501	08/27/91	0001	AL	O			8.6		0.1	-
	0501	12/09/91	0001	AL	O			8.8		0.1	-
	0501	10/09/92	0001	AL	O			9.1		0.1	-
	0686	07/17/86	0001	AL	O			4.		2.	-
	0686	04/08/87	0001	AL	O			11.9		2.	-
	0686	10/15/87	0001	AL	O			9.6		2.	-
	0686	02/22/88	0001	AL	O			8.4		2.	-
SILVER	0501	10/14/87	0001	AL	O	MG/L	<	0.01		0.01	-
	0501	03/29/91	0001	AL	O		<	0.01		0.01	-
	0501	08/27/91	0001	AL	O		<	0.01		0.01	-
	0501	12/09/91	0001	AL	O		<	0.01		0.01	-
	0686	07/17/86	0001	AL	O		<	0.01		0.01	-
	0686	04/08/87	0001	AL	O		<	0.01		0.01	-
	0686	10/15/87	0001	AL	O		<	0.01		0.01	-
SODIUM	0501	07/01/86	0001	AL	O	MG/L		125.		0.002	-
	0501	10/14/87	0001	AL	O			108.		0.002	-
	0501	02/22/88	0001	AL	O			111.		0.002	-
	0501	03/29/91	0001	AL	O			127.		5.	-
	0501	08/27/91	0001	AL	O			134.		5.	-
	0501	12/09/91	0001	AL	O			128.		5.	-
	0501	10/09/92	0001	AL	O			113.		5.	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

30

43 M.D.
6/15/93

TABLE 3. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/01/86 TO 10/09/92
REPORT DATE: 05/04/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL DISSOLVED SOLIDS	0686	10/15/87	0001	AL	0	MG/L	672.		10.	-
	0686	02/22/88	0001	AL	0		777.		10.	-
TOTAL KJELDAHL NITROGEN	0501	03/29/91	0001	AL	0	MG/L	< 1.		1.	-
	0501	08/27/91	0001	AL	0		1.		1.	-
	0501	12/09/91	0001	AL	0		< 2.	I	2.	-
TOTAL ORGANIC CARBON	0501	03/29/91	0001	AL	0	MG/L	2.		1.	-
	0501	08/27/91	0001	AL	0		2.		1.	-
	0501	12/09/91	0001	AL	0		2.		1.	-
	0501	10/09/92	0001	AL	0		2.		1.	-
URANIUM	0501	07/01/86	0001	AL	0	MG/L	0.0334		0.003	-
	0501	10/14/87	0001	AL	0		0.034		0.003	-
	0501	02/22/88	0001	AL	0		0.0416		0.003	-
	0501	03/29/91	0001	AL	0		0.023		0.001	-
	0501	08/27/91	0001	AL	0		0.018		0.001	-
	0501	12/05/91	0001	AL	0		0.019		0.001	-
	0501	10/09/92	0001	AL	0		0.022		0.001	-
	0686	07/17/86	0001	AL	0		0.0404		0.003	-
	0686	04/08/87	0001	AL	0		0.0636		0.003	-
	0686	10/15/87	0001	AL	0		0.051		0.003	-
	0686	02/22/88	0001	AL	0		0.0475		0.003	-
VANADIUM	0501	07/01/86	0001	AL	0	MG/L	0.23		0.01	-
	0501	10/14/87	0001	AL	0		< 0.01		0.01	-
	0501	03/29/91	0001	AL	0		< 0.01		0.01	-
	0501	08/27/91	0001	AL	0		< 0.01		0.01	-
	0501	12/09/91	0001	AL	0		< 0.01		0.01	-
	0501	10/09/92	0001	AL	0		< 0.01		0.01	-
	0686	07/17/86	0001	AL	0		0.39		0.01	-
	0686	04/08/87	0001	AL	0		< 0.2	c	0.2	-
	0686	10/15/87	0001	AL	0		< 0.01		0.01	-
ZINC	0501	10/14/87	0001	AL	0	MG/L	< 0.005		0.005	-
	0501	03/29/91	0001	AL	0		< 0.005		0.005	-
	0501	08/27/91	0001	AL	0		0.005		0.005	-
	0501	12/09/91	0001	AL	0		< 0.005		0.005	-
	0501	10/09/92	0001	AL	0		< 0.005		0.005	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
c - CHANGED DETECTION LIMIT

33

42 JJA
6/15/9.

TABLE 3. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/01/86 TO 10/09/92
REPORT DATE: 05/04/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SULFIDE	0501	10/09/92	0001	AL	0	MG/L		0.8		0.1	-
	0686	07/17/86	0001	AL	0		<	0.1		0.1	-
TEMPERATURE	0501	07/01/86	0001	AL	0	C - DEGREE		12.5		-	-
	0501	10/14/87	0001	AL	0			15.0		-	-
	0501	02/22/88	0001	AL	0			12.5		-	-
	0501	05/16/90	0001	AL	0			12.0		-	-
	0501	03/29/91	0001	AL	0			11.1		-	-
	0501	08/27/91	0001	AL	0			14.4		-	-
	0501	12/05/91	0001	AL	0			13.4		-	-
	0501	10/09/92	0001	AL	0			14.6		-	-
	0686	07/17/86	0001	AL	0			13.5		-	-
	0686	04/08/87	0001	AL	0			9.0		-	-
	0686	10/15/87	0001	AL	0			14.5		-	-
	0686	02/22/88	0001	AL	0			11.0		-	-
	0686	08/06/91	0001	AL	0			18.2		-	-
	0686	10/09/92	0001	AL	0			17.2		-	-
THALLIUM	0501	03/29/91	0001	AL	0	MG/L	<	0.01		0.01	-
	0501	08/27/91	0001	AL	0		<	0.01		0.01	-
	0501	12/09/91	0001	AL	0		<	0.01		0.01	-
	0501	10/09/92	0001	AL	0		<	0.005		0.005	-
THORIUM-230	0501	08/27/91	0001	AL	0	PCI/L		0.5		1.	0.6
	0501	12/05/91	0001	AL	0			0.5		1.	0.7
TIN	0501	03/29/91	0001	AL	0	MG/L	<	0.005		0.005	-
	0501	08/27/91	0001	AL	0		<	0.005		0.005	-
	0501	12/09/91	0001	AL	0		<	0.005		0.005	-
	0501	10/09/92	0001	AL	0		<	0.005		0.005	-
	0686	07/17/86	0001	AL	0		<	0.005		0.005	-
TOTAL DISSOLVED SOLIDS	0501	07/01/86	0001	AL	0	MG/L		819.		10.	-
	0501	10/14/87	0001	AL	0			879.		10.	-
	0501	02/22/88	0001	AL	0			991.		10.	-
	0501	03/29/91	0001	AL	0			846.		10.	-
	0501	08/27/91	0001	AL	0			840.		10.	-
	0501	12/09/91	0001	AL	0			822.		10.	-
	0501	10/09/92	0001	AL	0			744.		10.	-
	0686	07/17/86	0001	AL	0			622.		10.	-
	0686	04/08/87	0001	AL	0			813.		10.	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

32

45 2.0
6/15/93

TALBE 4. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/01/86 TO 10/09/92
REPORT DATE: 05/04/93

PARAMETER NAME				UNITS						STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	MINIMUM	MAXIMUM *				
ALKALINITY				MG/L CAC03									
12	204.0000	435.0000	+ 230.5000	253.4167	64.2671	0.2536	0.0	202.9914	303.8419			NORMAL	
ALUMINUM				MG/L									
11	** 0.0500	0.4000	0.0500	NA	NA	NA	63.6	** 0.0500	0.3000			NONPARAMETRIC	2
AMMONIUM				MG/L									
10	** 0.1000	0.6000	** 0.1000	NA	NA	NA	80.0	** 0.1000	0.1000			NONPARAMETRIC	2
ANTIMONY				MG/L									
6	** 0.0030	** 0.0030	** 0.0030	NA	NA	NA	100.0	** 0.0030	** 0.0030			NONPARAMETRIC	2,6
ARSENIC				MG/L									
9	** 0.0050	0.0050	0.0050	NA	NA	NA	100.0	** 0.0050	0.0050			NONPARAMETRIC	2
BARIUM				MG/L									
8	0.0200	0.2000	+ 0.0350	NA	NA	NA	37.5	0.0200	0.2000			NONPARAMETRIC	2
BERYLLIUM				MG/L									
3	** 0.0050	** 0.0050	** 0.0050	NA	NA	NA	100.0	NA	NA			UNKNOWN	1
BORON				MG/L									
6	0.0800	0.3000	+ 0.1000	0.1283	0.0845	0.6583	0.0	** 0.0500	0.2444			NORMAL	
BROMIDE				MG/L									
4	0.1500	0.2500	+ 0.2000	NA	NA	NA	50.0	0.1500	0.2500			NONPARAMETRIC	2,4

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.

6) The stat. range is the 96.9% confidence interval due to a sample size of 6. The maximum is the 98.5% one sided confidence int.

35

44 J.A.
6/15/93

TABLE 3. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, WC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/01/86 TO 10/09/92
REPORT DATE: 05/04/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ZINC	0686	07/17/86	0001	AL	O	MG/L	0.011		0.005	-
	0686	04/08/87	0001	AL	O		< 0.005		0.005	-
	0686	10/15/87	0001	AL	O		< 0.005		0.005	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

DATA FILE NAME: M:\DART\SRK01\GWQ10031.DAT

47 J.A.
6/15/93

TALBE 4. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/01/86 TO 10/09/92
REPORT DATE: 05/04/93

PARAMETER NAME					UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN									
FLUORIDE					MG/L								
10	0.1000	0.4000	+ 0.2050	0.2280		0.0780	0.3421	0.0		0.1584	0.2976	NORMAL	
GROSS ALPHA					PCI/L								
4	3.6000	20.5000	+ 13.3000	12.6750		7.5663	0.5969	0.0	**	1.0000	29.8543	NORMAL	
GROSS BETA					PCI/L								
4	0.6000	12.6000	+ 10.7000	8.6500		5.4800	0.6335	0.0	**	0.5000	21.0923	NORMAL	
IRON					MG/L								
11	** 0.0300	0.6500	0.0500	NA		NA	NA	45.5	**	0.0300	0.5800	NONPARAMETRIC	2
LEAD					MG/L								
8	** 0.0050	0.0100	+ 0.0050	NA		NA	NA	100.0	**	0.0050	0.0100	NONPARAMETRIC	2
LEAD-210					PCI/L								
2	** 1.5000	1.5000	** 1.5000	NA		NA	NA	0.0		NA	NA	UNKNOWN	1
MAGNESIUM					MG/L								
11	20.9000	41.9000	29.0000	29.9818		5.3781	0.1794	0.0		25.4999	34.4638	NORMAL	
MANGANESE					MG/L								
11	** 0.0100	1.2700	0.0200	NA		NA	NA	18.2	**	0.0100	0.3000	NONPARAMETRIC	2
MERCURY					MG/L								
7	** 0.0002	** 0.0002	** 0.0002	NA		NA	NA	100.0	**	0.0002	** 0.0002	NONPARAMETRIC	2
MOLYBDENUM					MG/L								
11	0.0300	0.2400	0.0700	0.0855		0.0568	0.6648	9.1		0.0381	0.1328	NORMAL	

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

46 J.L.
6/15/93

TALBE 4. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE ALLUVIUM, HC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/01/86 TO 10/09/92
REPORT DATE: 05/04/93

PARAMETER NAME				UNITS						STATISTICAL RANGE 98% CONFIDENCE INTERVAL	DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS					
CADMIUM				MG/L								
8	** 0.0005	0.0005	+ 0.0005	NA	NA	NA	100.0	** 0.0005	0.0005	NONPARAMETRIC	2	
CALCIUM				MG/L								
11	73.8000	150.0000	111.0000	112.6727	19.7028	0.1749	0.0	96.2528	129.0926	NORMAL		
CHLORIDE				MG/L								
11	38.0000	89.0000	59.0000	58.1182	16.0858	0.2768	0.0	44.7126	71.5237	NORMAL		
CHROMIUM				MG/L								
8	** 0.0100	0.0400	** 0.0100	NA	NA	NA	87.5	** 0.0100	0.0400	NONPARAMETRIC	2	
COBALT				MG/L								
3	** 0.0300	** 0.0300	** 0.0300	NA	NA	NA	100.0	NA	NA	UNKNOWN	1	
COPPER				MG/L								
8	** 0.0100	0.0500	** 0.0100	NA	NA	NA	75.0	** 0.0100	0.0500	NONPARAMETRIC	2	
CYANIDE				MG/L								
3	** 0.0100	** 0.0100	** 0.0100	NA	NA	NA	100.0	NA	NA	UNKNOWN	1	
DISSOLVED OXYGEN				MG/L								
1	1.3000	1.3000	1.3000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
FIELD FE (2+)				MG/L								
1	0.0500	0.0500	0.0500	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
FIELD FE (TOTAL)				MG/L								
1	0.0000	0.0000	0.0000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

49 M.L.
6/15/93

TALBE 4. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/01/86 TO 10/09/92
REPORT DATE: 05/04/93

PARAMETER NAME					UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN						MINIMUM	MAXIMUM		
RADIUM-226 + RADIUM-228				PCI/L									
4	0.0000	7.8000	+ 1.3500	NA		NA	NA	0.0		0.0000	7.8000	NONPARAMETRIC	9,4
RADIUM-228				PCI/L									
4	** 1.0000	7.8000	+ 1.3500	NA		NA	NA	0.0	**	1.0000	7.8000	NONPARAMETRIC	9,4
REDOX POTENTIAL				mVOLTS									
2	340.5000	452.8000	+ 396.6500	NA		NA	NA	0.0		NA	NA	UNKNOWN	1
SELENIUM				MG/L									
9	** 0.0050	** 0.0050	** 0.0050	NA		NA	NA	100.0	**	0.0050	** 0.0050	NONPARAMETRIC	2
SILICA - SiO2				MG/L									
10	4.0000	11.9000	+ 8.7000	8.5600		1.9918	0.2327	0.0		6.7832	10.3368	NORMAL	
SILVER				MG/L									
7	** 0.0100	** 0.0100	** 0.0100	NA		NA	NA	100.0	**	0.0100	** 0.0100	NONPARAMETRIC	2
SODIUM				MG/L									
11	90.2000	195.0000	113.0000	120.1545		28.9258	0.2407	0.0		96.0484	144.2607	NORMAL	
SPECIFIC CONDUCTANCE				UMHO/CM									
14	447.0000	1357.0000	+ 810.0000	892.8571		296.5429	0.3321	0.0		682.8330	1102.8813	NORMAL	
STRONTIUM				MG/L									
4	1.1900	1.4100	+ 1.2400	1.2700		0.0966	0.0761	0.0		1.0506	1.4894	NORMAL	

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

48 J.D.
6/15/93

TALBE 4. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/01/86 TO 10/09/92
REPORT DATE: 05/04/93

PARAMETER NAME					UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN									
NET GROSS ALPHA ***					PCI/L								
4	-9.4300	4.7200	+	-0.4200	NA	NA	NA	0.0	-9.4300	4.7200	NONPARAMETRIC	9,4	
NICKEL					MG/L								
10	0.0100	0.0400	+	0.0200	NA	NA	NA	70.0	0.0200	0.0200	NONPARAMETRIC	2	
NITRATE					MG/L								
11	0.5000	7.3000		0.5000	NA	NA	NA	54.5	0.5000	1.6000	NONPARAMETRIC	2	
NITRITE AND NITRATE					MG/L								
4	0.2000	1.6400	+	0.5000	NA	NA	NA	25.0	0.2000	1.6400	NONPARAMETRIC	2,4	
PH					SU								
14	6.8900	7.6600	+	7.1650	NA	NA	NA	0.0	NA	NA	UNKNOWN		
PHOSPHATE					MG/L								
8	** 0.1000	0.1000	**	0.1000	NA	NA	NA	87.5	** 0.1000	0.1000	NONPARAMETRIC	2	
POLONIUM-210					PCI/L								
2	** 1.0000	** 1.0000	**	1.0000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
POTASSIUM					MG/L								
11	3.3000	6.0800		3.9600	4.1727	0.7603	0.1822	0.0	3.5391	4.8063	NORMAL		
RADIUM-226					PCI/L								
6	** 0.2000	0.4000	**	0.2000	NA	NA	NA	0.0	** 0.2000	0.4000	NONPARAMETRIC	9,6	

*** NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.

6) The stat. range is the 96.9% confidence interval due to a sample size of 6. The maximum is the 98.5% one sided confidence int.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

38

SI J.A.
6/15/93

TALBE 4. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO. ;
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/01/86 TO 10/09/92
REPORT DATE: 05/04/93

PARAMETER NAME					UNITS	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOO NOT
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	MINIMUM				MAXIMUM *			
URANIUM					MG/L	0.0147	0.4106	0.0	0.0235	0.0480	NORMAL	
11	0.0180	0.0636	0.0340	0.0358								
VANADIUM					MG/L	NA	NA	77.8	** 0.0100	0.3900	NONPARAMETRIC	2
9	** 0.0100	0.3900	** 0.0100	NA								
ZINC					MG/L	NA	NA	75.0	** 0.0050	0.0110	NONPARAMETRIC	2
8	** 0.0050	0.0110	** 0.0050	NA								

** The reported value is the minimum detection limit of the data set

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

INPUT DATA FILENAME: H:\DART\SRK01\GWQ10031.DAT

41

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6/15/93

TALBE 4. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/01/86 TO 10/09/92
REPORT DATE: 05/04/93

PARAMETER NAME				UNITS					STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS		MINIMUM	MAXIMUM *		
SULFATE				MG/L								
11	223.0000	430.0000	322.0000	320.0000	54.1886	0.1693	0.0		274.8405	365.1595	NORMAL	
SULFIDE				MG/L								
6	** 0.1000	1.0000	+ 0.2000	NA	NA	NA	33.3	**	0.1000	1.0000	NONPARAMETRIC	2,6
TEMPERATURE				C - DEGREE								
14	9.0000	18.2000	+ 13.4500	13.4929	2.4427	0.1810	0.0		11.7628	15.2229	NORMAL	
THALLIUM				MG/L								
4	** 0.0050	0.0050	+ 0.0050	NA	NA	NA	100.0	**	0.0050	0.0050	NONPARAMETRIC	2,4
THORIUM-230				PCI/L								
2	** 1.0000	** 1.0000	** 1.0000	NA	NA	NA	0.0		NA	NA	UNKNOWN	1
TIN				MG/L								
5	** 0.0050	** 0.0050	** 0.0050	NA	NA	NA	100.0	**	0.0050	** 0.0050	NONPARAMETRIC	2,5
TOTAL DISSOLVED SOLIDS				MG/L								
11	622.0000	991.0000	819.0000	802.2727	99.5631	0.1241	0.0		719.2991	885.2464	NORMAL	
TOTAL KJELDAHL NITROGEN				MG/L								
3	** 1.0000	1.0000	1.0000	NA	NA	NA	66.7		NA	NA	UNKNOWN	1
TOTAL ORGANIC CARBON				MG/L								
4	2.0000	2.0000	+ 2.0000	2.0000	0.0000	0.0000	0.0		2.0000	2.0000	NORMAL	

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.

5) The stat. range is the 93.8% confidence interval due to a sample size of 5. The maximum is the 96.9% one sided confidence int.

6) The stat. range is the 96.9% confidence interval due to a sample size of 6. The maximum is the 98.5% one sided confidence int.

TABLE 5 BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/11/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	0551	12/12/90	0001	JE	U	MG/L CaCO3		607.		-	-
	0551	03/28/91	0001	JE	U			274.		-	-
	0551	08/06/91	0001	JE	U			270		-	-
	0551	12/05/91	0001	JE	U			309		-	-
	0551	10/10/92	0001	JE	U			260		-	-
	0703	03/29/89	0001	JE	O			139.		-	-
	0703	12/12/90	0001	JE	O			180.		-	-
	0703	03/30/91	0001	JE	O			181.		-	-
	0703	08/07/91	0001	JE	O			170		-	-
	0703	12/05/91	0001	JE	O			151		-	-
	0703	10/11/92	0001	JE	O			145		-	-
ALUMINUM	0551	12/12/90	0001	JE	U	MG/L	<	0.1		0.1	-
	0551	03/28/91	0001	JE	U		<	0.05		0.05	-
	0551	08/06/91	0001	JE	U		<	0.05		0.05	-
	0551	12/11/91	0001	JE	U		<	0.05		0.05	-
	0551	10/10/92	0001	JE	U		<	0.05		0.05	-
	0703	03/29/89	0001	JE	O		<	0.05		0.1	-
	0703	12/12/90	0001	JE	O		<	0.1		0.1	-
	0703	03/30/91	0001	JE	O		<	0.05		0.05	-
	0703	08/07/91	0001	JE	O		<	0.05		0.05	-
	0703	12/07/91	0001	JE	O		<	0.05		0.05	-
	0703	10/11/92	0001	JE	O		<	0.05		0.05	-
AMMONIUM	0551	12/12/90	0001	JE	U	MG/L		1.9.		0.1	-
	0551	03/28/91	0001	JE	U			0.1		0.1	-
	0551	08/06/91	0001	JE	U		<	0.1		0.1	-
	0551	12/11/91	0001	JE	U			0.1		0.1	-
	0551	10/10/92	0001	JE	U			0.3	H	0.1	-
	0703	03/29/89	0001	JE	O			0.05	c	0.05	-
	0703	12/12/90	0001	JE	O		<	0.1		0.1	-
	0703	03/30/91	0001	JE	O			0.1		0.1	-
	0703	08/07/91	0001	JE	O			0.1		0.1	-
	0703	12/07/91	0001	JE	O		<	0.1		0.1	-
	0703	10/11/92	0001	JE	O		<	0.1		0.1	-
ANTIMONY	0551	12/12/90	0001	JE	U	MG/L	<	0.003		0.003	-
	0551	03/28/91	0001	JE	U		<	0.003		0.003	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
U - UPGRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
H - HOLD TIME EXPIRED, VALUE SUSPECT
c - CHANGED DETECTION LIMIT

6/15/93

47

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6/15/93

TABLE 5 BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/11/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ANTIMONY	0551	08/06/91	0001	JE	U	MG/L	<	0.003		0.003	-
	0551	12/11/91	0001	JE	U		<	0.003		0.003	-
	0551	10/10/92	0001	JE	U		<	0.003		0.003	-
	0703	03/29/89	0001	JE	O		<	0.001		0.003	-
	0703	12/12/90	0001	JE	O		<	0.003		0.003	-
	0703	03/30/91	0001	JE	O		<	0.003		0.003	-
	0703	08/07/91	0001	JE	O		<	0.003		0.003	-
	0703	12/07/91	0001	JE	O		<	0.003		0.003	-
	0703	10/11/92	0001	JE	O		<	0.003		0.003	-
ARSENIC	0551	12/12/90	0001	JE	U	MG/L	<	0.01		0.01	-
	0551	03/28/91	0001	JE	U		<	0.01		0.01	-
	0551	08/06/91	0001	JE	U		<	0.01		0.01	-
	0551	12/11/91	0001	JE	U		<	0.01		0.01	-
	0551	10/10/92	0001	JE	U		<	0.005		0.005	-
	0703	03/29/89	0001	JE	O		<	0.001		0.01	-
	0703	12/12/90	0001	JE	O		<	0.01		0.01	-
	0703	03/30/91	0001	JE	O		<	0.01		0.01	-
	0703	08/07/91	0001	JE	O		<	0.01		0.01	-
	0703	12/07/91	0001	JE	O		<	0.01		0.01	-
	0703	10/11/92	0001	JE	O		<	0.005		0.005	-
BARIUM	0551	12/12/90	0001	JE	U	MG/L	<	0.1		0.1	-
	0551	03/28/91	0001	JE	U			0.05		0.01	-
	0551	08/06/91	0001	JE	U			0.06		0.01	-
	0551	12/11/91	0001	JE	U			0.07		0.01	-
	0551	10/10/92	0001	JE	U			0.07		0.01	-
	0703	03/29/89	0001	JE	O			0.12		0.1	-
	0703	12/12/90	0001	JE	O			0.2		0.1	-
	0703	03/30/91	0001	JE	O			0.13		0.01	-
	0703	08/07/91	0001	JE	O			0.14		0.01	-
	0703	12/07/91	0001	JE	O			0.31		0.01	-
	0703	10/11/92	0001	JE	O			0.16		0.01	-
BERYLLIUM	0551	12/12/90	0001	JE	U	MG/L	<	0.01		0.01	-
	0551	03/28/91	0001	JE	U		<	0.005		0.005	-
	0551	08/06/91	0001	JE	U		<	0.005		0.005	-
	0551	12/11/91	0001	JE	U		<	0.005		0.005	-
	0703	03/29/89	0001	JE	O		<	0.005		0.005	-
	0703	12/12/90	0001	JE	O		<	0.01		0.01	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
U - UPGRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

43

54 J.D.D.
6/15/93

TABLE 5 BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/11/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BERYLLIUM	0703	03/30/91	0001	JE	O	MG/L	<	0.005		0.005	-
	0703	08/07/91	0001	JE	O		<	0.005		0.005	-
	0703	12/07/91	0001	JE	O		<	0.005		0.005	-
BORON	0551	12/12/90	0001	JE	U	MG/L		0.2		0.1	-
	0551	03/28/91	0001	JE	U			0.14		0.05	-
	0551	08/06/91	0001	JE	U			0.14		0.05	-
	0551	12/11/91	0001	JE	U			0.14		0.05	-
	0703	12/12/90	0001	JE	O			0.3		0.1	-
	0703	03/30/91	0001	JE	O			0.48		0.05	-
	0703	08/07/91	0001	JE	O			0.08		0.05	-
	0703	12/07/91	0001	JE	O			0.07		0.05	-
BROMIDE	0551	12/12/90	0001	JE	U	MG/L		0.8		0.01	-
	0551	03/28/91	0001	JE	U		<	0.1		0.1	-
	0551	08/06/91	0001	JE	U		<	0.1		0.1	-
	0551	12/11/91	0001	JE	U		<	0.1		0.1	-
	0551	10/10/92	0001	JE	U		<	0.5	I	0.5	-
	0703	12/12/90	0001	JE	O		<	0.1	c	0.1	-
	0703	03/30/91	0001	JE	O		<	0.1		0.1	-
	0703	08/07/91	0001	JE	O		<	0.1		0.1	-
	0703	12/07/91	0001	JE	O		<	0.1		0.1	-
	0703	10/11/92	0001	JE	O		<	0.1		0.1	-
CADMIUM	0551	12/12/90	0001	JE	U	MG/L	<	0.001		0.001	-
	0551	03/28/91	0001	JE	U		<	0.001		0.001	-
	0551	08/06/91	0001	JE	U		<	0.001		0.001	-
	0551	12/11/91	0001	JE	U		<	0.001		0.001	-
	0551	10/10/92	0001	JE	U		<	0.001		0.001	-
	0703	03/29/89	0001	JE	O		<	0.0001		0.001	-
	0703	12/12/90	0001	JE	O		<	0.001		0.001	-
	0703	03/30/91	0001	JE	O		<	0.001		0.001	-
	0703	08/07/91	0001	JE	O		<	0.001		0.001	-
	0703	12/07/91	0001	JE	O		<	0.005	I	0.005	-
	0703	10/11/92	0001	JE	O		<	0.005	I	0.005	-
CALCIUM	0551	12/12/90	0001	JE	U	MG/L		54.2		0.01	-
	0551	03/28/91	0001	JE	U			28.3		0.5	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
O - ON-SITE
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
c - CHANGED DETECTION LIMIT

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55 6/15/93
D.A.

TABLE 5 BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/11/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CALCIUM	0551	08/06/91	0001	JE	U	MG/L		26.2		0.5	-
	0551	12/11/91	0001	JE	U			24.4		0.5	-
	0551	10/10/92	0001	JE	U			27.9		0.5	-
	0703	03/29/89	0001	JE	O			26.		0.01	-
	0703	12/12/90	0001	JE	O			25.3		0.01	-
	0703	03/30/91	0001	JE	O			27.5		0.5	-
	0703	08/07/91	0001	JE	O			22.3		0.5	-
	0703	12/07/91	0001	JE	O			18.5		0.1	-
	0703	10/11/92	0001	JE	O			22.4		0.5	-
	0703	10/11/92	0001	JE	O			22.4		0.5	-
CHLORIDE	0551	12/12/90	0001	JE	U	MG/L		696.		1.	-
	0551	03/28/91	0001	JE	U			133.		0.5	-
	0551	08/06/91	0001	JE	U			103.		1.	-
	0551	12/11/91	0001	JE	U			164.		1.	-
	0551	10/10/92	0001	JE	U			77.		1.	-
	0703	03/29/89	0001	JE	O			4.		1.	-
	0703	12/12/90	0001	JE	O			4.		1.	-
	0703	03/30/91	0001	JE	O			4.3		0.5	-
	0703	08/07/91	0001	JE	O			4.8		0.5	-
	0703	12/07/91	0001	JE	O			4.6		0.5	-
	0703	10/11/92	0001	JE	O			4.4		0.5	-
CHROMIUM	0551	12/12/90	0001	JE	U	MG/L	<	0.01		0.01	-
	0551	03/28/91	0001	JE	U		<	0.01		0.01	-
	0551	08/06/91	0001	JE	U		<	0.01		0.01	-
	0551	12/11/91	0001	JE	U		<	0.01		0.01	-
	0551	10/10/92	0001	JE	U		<	0.01		0.01	-
	0703	03/29/89	0001	JE	O		<	0.01		0.01	-
	0703	12/12/90	0001	JE	O		<	0.01		0.01	-
	0703	03/30/91	0001	JE	O		<	0.01		0.01	-
	0703	08/07/91	0001	JE	O		<	0.01		0.01	-
	0703	12/07/91	0001	JE	O		<	0.01		0.01	-
	0703	10/11/92	0001	JE	O		<	0.01		0.01	-
COBALT	0551	12/12/90	0001	JE	U	MG/L	<	0.05		0.05	-
	0551	03/28/91	0001	JE	U		<	0.03		0.03	-
	0551	08/06/91	0001	JE	U		<	0.03		0.03	-
	0551	12/11/91	0001	JE	U		<	0.03		0.03	-
	0703	03/29/89	0001	JE	O		<	0.02		0.05	-
	0703	12/12/90	0001	JE	O		<	0.05		0.05	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
U - UPGRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

45

56 J.A.
6/15/93

TABLE 5 BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/11/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
COBALT	0703	03/30/91	0001	JE	O	MG/L	<	0.03		0.03	-
	0703	08/07/91	0001	JE	O		<	0.03		0.03	-
	0703	12/07/91	0001	JE	O		<	0.03		0.03	-
COPPER	0551	12/12/90	0001	JE	U	MG/L	<	0.02		0.02	-
	0551	03/28/91	0001	JE	U		<	0.01		0.01	-
	0551	08/06/91	0001	JE	U		<	0.01		0.01	-
	0551	12/11/91	0001	JE	U		<	0.01		0.01	-
	0551	10/10/92	0001	JE	U		<	0.01		0.01	-
	0703	03/29/89	0001	JE	O		<	0.01		0.02	-
	0703	12/12/90	0001	JE	O		<	0.02		0.02	-
	0703	03/30/91	0001	JE	O		<	0.01		0.01	-
	0703	08/07/91	0001	JE	O		<	0.01		0.01	-
	0703	12/07/91	0001	JE	O		<	0.01		0.01	-
	0703	10/11/92	0001	JE	O		<	0.01		0.01	-
CYANIDE	0551	12/12/90	0001	JE	U	MG/L	<	0.01		0.01	-
	0551	03/28/91	0001	JE	U		<	0.01		0.01	-
	0551	08/06/91	0001	JE	U		<	0.01		0.01	-
	0551	12/11/91	0001	JE	U		<	0.01		0.01	-
	0703	03/29/89	0001	JE	O		<	0.002		0.01	-
	0703	12/12/90	0001	JE	O		<	0.01		0.01	-
	0703	03/30/91	0001	JE	O		<	0.01		0.01	-
	0703	08/07/91	0001	JE	O		<	0.01		0.01	-
	0703	12/07/91	0001	JE	O		<	0.01		0.01	-
FLUORIDE	0551	12/12/90	0001	JE	U	MG/L		0.6		0.1	-
	0551	03/28/91	0001	JE	U			0.6		0.1	-
	0551	08/06/91	0001	JE	U			0.7		0.1	-
	0551	12/11/91	0001	JE	U			0.6		0.1	-
	0551	10/10/92	0001	JE	U			0.7		0.1	-
	0703	03/29/89	0001	JE	O			0.3		0.1	-
	0703	12/12/90	0001	JE	O			0.6		0.1	-
	0703	03/30/91	0001	JE	O			0.6		0.1	-
	0703	08/07/91	0001	JE	O			0.4		0.1	-
	0703	12/07/91	0001	JE	O			0.3		0.1	-
	0703	10/11/92	0001	JE	O			0.5		0.1	-
GROSS ALPHA	0551	12/12/90	0001	JE	U	PCI/L		5.		1.	23.
	0551	03/28/91	0001	JE	U			7.7		1.	9.6

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
O - ON-SITE
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

46

57 6/15/93
D.L.

TABLE 5 BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/11/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
GROSS ALPHA	0551	08/06/91	0001	JE	U	PCI/L		0.0		1.	5.1
	0551	12/05/91	0001	JE	U			0.0		1.	9.1
	0551	10/10/92	0001	JE	U			0.0	N	7.6	4.2
	0703	12/12/90	0001	JE	O			6.3		1.	3.0
	0703	03/30/91	0001	JE	O			4.5		1.	3.3
	0703	08/07/91	0001	JE	O			3.0		1.	2.8
	0703	12/05/91	0001	JE	O			0.0		1.	4.2
	0703	10/11/92	0001	JE	O			0.9	N	4.5	2.8
GROSS BETA	0551	12/12/90	0001	JE	U	PCI/L		24.		0.5	18.
	0551	03/28/91	0001	JE	U			10.8		0.5	6.7
	0551	08/06/91	0001	JE	U			4.4		0.5	3.3
	0551	12/05/91	0001	JE	U			0.0		0.5	5.3
	0551	10/10/92	0001	JE	U			4.5	*N	7.1	4.4
	0703	03/29/89	0001	JE	O			11.0		0.5	4.80
	0703	12/12/90	0001	JE	O			5.9		0.5	1.8
	0703	03/30/91	0001	JE	O			7.4		0.5	2.1
	0703	08/07/91	0001	JE	O			6.0		0.5	2.0
	0703	12/05/91	0001	JE	O			0.0		0.5	3.6
	0703	10/11/92	0001	JE	O			7.5	*N	4.5	3.0
IRON	0551	12/12/90	0001	JE	U	MG/L	<	0.03		0.03	-
	0551	03/28/91	0001	JE	U		<	0.03		0.03	-
	0551	08/06/91	0001	JE	U		<	0.03		0.03	-
	0551	12/11/91	0001	JE	U		<	0.03		0.03	-
	0551	10/10/92	0001	JE	U		<	0.03		0.03	-
	0703	03/29/89	0001	JE	O		<	0.02		0.03	-
	0703	12/12/90	0001	JE	O		<	0.03		0.03	-
	0703	03/30/91	0001	JE	O		<	0.03		0.03	-
	0703	08/07/91	0001	JE	O		<	0.03		0.03	-
	0703	12/07/91	0001	JE	O		<	0.03		0.03	-
	0703	10/11/92	0001	JE	O		<	0.03		0.03	-
LEAD	0551	12/12/90	0001	JE	U	MG/L	<	0.01		0.01	-
	0551	03/28/91	0001	JE	U		<	0.005		0.005	-
	0551	08/06/91	0001	JE	U		<	0.005		0.005	-
	0551	12/11/91	0001	JE	U		<	0.005		0.005	-
	0551	10/10/92	0001	JE	U		<	0.003		0.003	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
U - UPGRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
• - DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS
N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS

47

58 J. Q.
6/15/93

TABLE 5 BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/11/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
LEAD	0703	03/29/89	0001	JE	O	MG/L		0.003	c	0.003	-
	0703	12/12/90	0001	JE	O		<	0.01		0.01	-
	0703	03/30/91	0001	JE	O		<	0.005		0.005	-
	0703	08/07/91	0001	JE	O		<	0.005		0.005	-
	0703	12/07/91	0001	JE	O		<	0.005		0.005	-
	0703	10/11/92	0001	JE	O		<	0.02	I	0.02	-
LEAD-210	0551	08/06/91	0001	JE	U	PCI/L		0.7		1.5	0.9
	0551	12/05/91	0001	JE	U			0.3		1.5	1.3
	0703	08/07/91	0001	JE	O			0.4		1.5	0.9
	0703	12/05/91	0001	JE	O			0.0		1.5	0.8
MAGNESIUM	0551	12/12/90	0001	JE	U	MG/L		81.4		0.001	-
	0551	03/28/91	0001	JE	U			46.8		0.1	-
	0551	08/06/91	0001	JE	U			46.0		0.1	-
	0551	12/11/91	0001	JE	U			45.3		0.1	-
	0551	10/10/92	0001	JE	U			47.5		0.1	-
	0703	03/29/89	0001	JE	O			18.		0.001	-
	0703	12/12/90	0001	JE	O			26.4		0.001	-
	0703	03/30/91	0001	JE	O			27.9		0.1	-
	0703	08/07/91	0001	JE	O			22.5		0.1	-
	0703	12/07/91	0001	JE	O			19.7		0.1	-
	0703	10/11/92	0001	JE	O			21.7		0.1	-
MANGANESE	0551	12/12/90	0001	JE	U	MG/L		0.02		0.01	-
	0551	03/28/91	0001	JE	U		<	0.01		0.01	-
	0551	08/06/91	0001	JE	U		<	0.01		0.01	-
	0551	12/11/91	0001	JE	U		<	0.01		0.01	-
	0551	10/10/92	0001	JE	U		<	0.01		0.01	-
	0703	03/29/89	0001	JE	O			0.02		0.01	-
	0703	12/12/90	0001	JE	O			0.03		0.01	-
	0703	03/30/91	0001	JE	O			0.08		0.01	-
	0703	08/07/91	0001	JE	O		<	0.01		0.01	-
	0703	12/07/91	0001	JE	O		<	0.01		0.01	-
	0703	10/11/92	0001	JE	O		<	0.01		0.01	-
MERCURY	0551	12/12/90	0001	JE	U	MG/L	<	0.0002		0.0002	-
	0551	03/28/91	0001	JE	U		<	0.0002		0.0002	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
O - ON-SITE
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
c - CHANGED DETECTION LIMIT

48

59 2.1
6/15/93

TABLE 5 BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/11/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MERCURY	0551	08/06/91	0001	JE	U	MG/L	<	0.0002		0.0002	-
	0551	12/11/91	0001	JE	U		<	0.0002		0.0002	-
	0703	03/29/89	0001	JE	O		<	0.0001		0.0002	-
	0703	12/12/90	0001	JE	O		<	0.0002		0.0002	-
	0703	03/30/91	0001	JE	O		<	0.0002		0.0002	-
	0703	08/07/91	0001	JE	O		<	0.0002		0.0002	-
	0703	12/07/91	0001	JE	O		<	0.0002		0.0002	-
	0703	12/07/91	0001	JE	O		<	0.0002		0.0002	-
MOLYBDENUM	0551	12/12/90	0001	JE	U	MG/L		0.07		0.01	-
	0551	03/28/91	0001	JE	U			0.02		0.01	-
	0551	08/06/91	0001	JE	U		<	0.01		0.01	-
	0551	12/11/91	0001	JE	U			0.01		0.01	-
	0551	10/10/92	0001	JE	U			0.01		0.01	-
	0703	03/29/89	0001	JE	O			0.002	c	0.002	-
	0703	12/12/90	0001	JE	O			0.03		0.01	-
	0703	03/30/91	0001	JE	O		<	0.01		0.01	-
	0703	08/07/91	0001	JE	O		<	0.01		0.01	-
	0703	12/07/91	0001	JE	O		<	0.01		0.01	-
	0703	10/11/92	0001	JE	O		<	0.01		0.01	-
	0703	10/11/92	0001	JE	O		<	0.01		0.01	-
NET GROSS ALPHA *	0551	12/12/90	0001	JE	U	PCI/L		-6.25		-	-
	0551	03/28/91	0001	JE	U			4.27		-	-
	0551	08/06/91	0001	JE	U			-0.34		-	-
	0551	12/05/91	0001	JE	U			-4.12		-	-
	0551	10/10/92	0001	JE	U			-1.37		-	-
	0703	12/12/90	0001	JE	O			4.10		-	-
	0703	03/30/91	0001	JE	O			1.76		-	-
	0703	08/07/91	0001	JE	O			0.94		-	-
	0703	12/05/91	0001	JE	O			-0.69		-	-
	0703	10/11/92	0001	JE	O			-1.16		-	-
NICKEL	0551	12/12/90	0001	JE	U	MG/L	<	0.04		0.04	-
	0551	03/28/91	0001	JE	U		<	0.04		0.04	-
	0551	08/06/91	0001	JE	U		<	0.04		0.04	-
	0551	12/11/91	0001	JE	U		<	0.04		0.04	-
	0551	10/10/92	0001	JE	U		<	0.04		0.04	-
	0703	03/29/89	0001	JE	O		<	0.02		0.04	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
U - UPGRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

bh

60 J.A.
6/15/93

TABLE 5 BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/11/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NICKEL	0703	12/12/90	0001	JE	O	MG/L	<	0.04		0.04	-
	0703	03/30/91	0001	JE	O		<	0.04		0.04	-
	0703	08/07/91	0001	JE	O		<	0.04		0.04	-
	0703	12/07/91	0001	JE	O		<	0.04		0.04	-
	0703	10/11/92	0001	JE	O		<	0.04		0.04	-
NITRATE	0551	12/12/90	0001	JE	U	MG/L		1.		1.	-
	0551	03/28/91	0001	JE	U			5.5		1.	-
	0551	08/06/91	0001	JE	U			3.5		1.	-
	0551	12/11/91	0001	JE	U			1.8		1.	-
	0551	10/10/92	0001	JE	U			8.5		1.0	-
	0703	03/29/89	0001	JE	O			7.4		1.	-
	0703	12/12/90	0001	JE	O			3.		1.	-
	0703	03/30/91	0001	JE	O			7.3		1.	-
	0703	08/07/91	0001	JE	O			8.9		1.	-
	0703	12/07/91	0001	JE	O			6.2		1.	-
	0703	10/11/92	0001	JE	O			5.7		1.0	-
NITRITE AND NITRATE	0551	03/28/91	0001	JE	U	MG/L		1.24		0.05	-
	0551	08/06/91	0001	JE	U			0.82		0.05	-
	0703	03/30/91	0001	JE	O			1.67		0.05	-
	0703	08/07/91	0001	JE	O			1.98		0.05	-
PH	0551	12/12/90	0001	JE	U	SU		7.82		-	-
	0551	03/28/91	0001	JE	U			7.86		-	-
	0551	08/06/91	0001	JE	U			7.77		-	-
	0551	12/05/91	0001	JE	U			8.01		-	-
	0551	10/10/92	0001	JE	U			7.99		-	-
	0703	03/29/89	0001	JE	O			7.93		-	-
	0703	12/12/90	0001	JE	O			8.04		-	-
	0703	03/30/91	0001	JE	O			7.78		-	-
	0703	08/07/91	0001	JE	O			7.98		-	-
	0703	12/05/91	0001	JE	O			7.93		-	-
	0703	10/11/92	0001	JE	O			8.02		-	-
PHOSPHATE	0551	12/12/90	0001	JE	U	MG/L	<	0.1		0.1	-
	0551	03/28/91	0001	JE	U			0.1		0.1	-
	0551	08/06/91	0001	JE	U		<	0.1		0.1	-
	0551	12/11/91	0001	JE	U			0.9		0.1	-
	0551	10/10/92	0001	JE	U			0.6 J		0.1	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
O - ON-SITE
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE

50

61 92.2.
6/15/93

TABLE 5 BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/11/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PHOSPHATE	0703	03/29/89	0001	JE	O	MG/L	<	0.1		0.1	-
	0703	12/12/90	0001	JE	O		<	0.1		0.1	-
	0703	03/30/91	0001	JE	O			0.1		0.1	-
	0703	08/07/91	0001	JE	O			0.1		0.1	-
	0703	12/07/91	0001	JE	O			0.1		0.01	-
	0703	10/11/92	0001	JE	O			0.5	J	0.1	-
POLONIUM-210	0551	08/06/91	0001	JE	U	PCI/L		0.1		1.	0.4
	0551	12/05/91	0001	JE	U			0.1		1.	0.5
	0703	08/07/91	0001	JE	O			0.1		1.	0.3
	0703	12/05/91	0001	JE	O			0.0		1.	0.6
POTASSIUM	0551	12/12/90	0001	JE	U	MG/L		12.5		0.01	-
	0551	03/28/91	0001	JE	U			7.3		0.01	-
	0551	08/06/91	0001	JE	U			6.9		0.01	-
	0551	12/11/91	0001	JE	U			7.45		0.01	-
	0551	10/10/92	0001	JE	U			7.08		0.01	-
	0703	03/29/89	0001	JE	O			5.9		0.01	-
	0703	12/12/90	0001	JE	O			7.8		0.01	-
	0703	03/30/91	0001	JE	O			8.2		0.01	-
	0703	08/07/91	0001	JE	O			4.5		0.01	-
	0703	12/07/91	0001	JE	O			3.82		0.01	-
	0703	10/11/92	0001	JE	O			5.93		0.01	-
RADIUM-226	0551	12/12/90	0001	JE	U	PCI/L		0.2	c	0.4	0.2
	0551	03/28/91	0001	JE	U			0.2		1.	0.2
	0551	08/06/91	0001	JE	U			0.1		1.	0.2
	0551	12/05/91	0001	JE	U			0.3		1.	0.2
	0551	10/10/92	0001	JE	U			0.9		0.8	0.6
	0703	12/12/90	0001	JE	O			0.6		1.	0.4
	0703	03/30/91	0001	JE	O			0.4		1.	0.2
	0703	08/07/91	0001	JE	O			0.4		1.	0.2
	0703	12/05/91	0001	JE	O			0.3		1.	0.3
	0703	10/11/92	0001	JE	O			0.0		0.8	0.4
RADIUM-226 + RADIUM-228	0551	12/12/90	0001	JE	U	PCI/L		1.50		-	-
	0551	03/28/91	0001	JE	U			2.40		-	-
	0551	08/06/91	0001	JE	U			0.10		-	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
O - ON-SITE
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE
c - CHANGED DETECTION LIMIT

51

62 M.A.
6/15/93

TABLE 5 BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/11/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
RADIUM-226 + RADIUM-228	0551	12/05/91	0001	JE	U	PCI/L		0.30		-	-
	0551	10/10/92	0001	JE	U			2.70		-	-
	0703	12/12/90	0001	JE	O			2.70		-	-
	0703	03/30/91	0001	JE	O			0.40		-	-
	0703	08/07/91	0001	JE	O			6.30		-	-
	0703	12/05/91	0001	JE	O			1.10		-	-
	0703	10/11/92	0001	JE	O			0.70		-	-
RADIUM-228	0551	12/12/90	0001	JE	U	PCI/L		1.3		1.	0.9
	0551	03/28/91	0001	JE	U			2.2		1.	1.2
	0551	08/06/91	0001	JE	U			0.0		1.	1.5
	0551	12/05/91	0001	JE	U			0.0		1.	0.7
	0551	10/10/92	0001	JE	U			1.8		2.4	1.6
	0703	12/12/90	0001	JE	O			2.1		1.	1.0
	0703	03/30/91	0001	JE	O			0.0		1.	1.0
	0703	08/07/91	0001	JE	O			5.9		1.	2.3
	0703	12/05/91	0001	JE	O			0.8		1.	1.1
	0703	10/11/92	0001	JE	O			0.7	N	2.6	1.6
REDOX POTENTIAL	0551	12/12/90	0001	JE	U	mVOLTS		434.3		-	-
	0551	10/10/92	0001	JE	U			456.1		-	-
	0703	12/12/90	0001	JE	O			368.3		-	-
	0703	10/11/92	0001	JE	O			444.8		-	-
SELENIUM	0551	12/12/90	0001	JE	U	MG/L		0.021		0.005	-
	0551	03/28/91	0001	JE	U			0.013		0.005	-
	0551	08/06/91	0001	JE	U		<	0.005		0.005	-
	0551	12/11/91	0001	JE	U			0.005		0.005	-
	0551	10/10/92	0001	JE	U			0.005		0.005	-
	0703	03/29/89	0001	JE	O		<	0.001		0.005	-
	0703	12/12/90	0001	JE	O		<	0.005		0.005	-
	0703	03/30/91	0001	JE	O		<	0.005		0.005	-
	0703	08/07/91	0001	JE	O		<	0.005		0.005	-
	0703	12/07/91	0001	JE	O		<	0.005		0.005	-
	0703	10/11/92	0001	JE	O		<	0.005		0.005	-
SILICA - SiO2	0551	12/12/90	0001	JE	U	MG/L		11.		2.	-
	0551	03/28/91	0001	JE	U			10.5		0.1	-
	0551	08/06/91	0001	JE	U			10.1		0.1	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
U - UPGRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS

52

63 J.D.
6/15/93

TABLE 5 BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/11/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SILICA - SiO2	0551	12/11/91	0001	JE	U	MG/L		10.1		0.1	-
	0551	10/10/92	0001	JE	U			10.2		0.1	-
	0703	03/29/89	0001	JE	O			12.1		2.	-
	0703	12/12/90	0001	JE	O			13.		2.	-
	0703	03/30/91	0001	JE	O			12.1		0.1	-
	0703	08/07/91	0001	JE	O			10.1		0.1	-
	0703	12/07/91	0001	JE	O			9.6		0.1	-
	0703	10/11/92	0001	JE	O			10.9		0.1	-
SILVER	0551	12/12/90	0001	JE	U	MG/L	<	0.01		0.01	-
	0551	03/28/91	0001	JE	U		<	0.01		0.01	-
	0551	08/06/91	0001	JE	U		<	0.01		0.01	-
	0551	12/11/91	0001	JE	U		<	0.01		0.01	-
	0703	03/29/89	0001	JE	O		<	0.01		0.01	-
	0703	12/12/90	0001	JE	O		<	0.01		0.01	-
	0703	03/30/91	0001	JE	O		<	0.01		0.01	-
	0703	08/07/91	0001	JE	O		<	0.01		0.01	-
SODIUM	0551	12/12/90	0001	JE	U	MG/L		528.		0.002	-
	0551	03/28/91	0001	JE	U			204.		5.	-
	0551	08/06/91	0001	JE	U			135.		5.	-
	0551	12/11/91	0001	JE	U			76.		1.	-
	0551	10/10/92	0001	JE	U			83.		1.	-
	0703	03/29/89	0001	JE	O			2.		0.002	-
	0703	12/12/90	0001	JE	O			5.52		0.002	-
	0703	03/30/91	0001	JE	O			5.8		0.01	-
SPECIFIC CONDUCTANCE	0703	08/07/91	0001	JE	O			2.6		0.01	-
	0703	12/07/91	0001	JE	O			2.27		0.01	-
	0703	10/11/92	0001	JE	O			4.77		0.01	-
	0551	12/12/90	0001	JE	U	UMHO/CM		3650.		-	-
	0551	08/06/91	0001	JE	U			12020		-	-
	0551	12/05/91	0001	JE	U			1400		-	-
	0551	10/10/92	0001	JE	U			725		-	-
	0703	03/29/89	0001	JE	O			230.		-	-
	0703	12/12/90	0001	JE	O			350.		-	-
	0703	08/07/91	0001	JE	O			298		-	-
	0703	12/05/91	0001	JE	O			296		-	-
	0703	10/11/92	0001	JE	O			248		-	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
U - UPGRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

53

69 1032.
6/15/93

TABLE 5 BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/11/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
STRONTIUM	0551	12/12/90	0001	JE	U	MG/L		1.1		0.1	-
	0551	03/28/91	0001	JE	U			0.62		0.01	-
	0551	08/06/91	0001	JE	U			0.54		0.01	-
	0551	12/11/91	0001	JE	U			0.53		0.01	-
	0551	10/10/92	0001	JE	U			0.56		0.01	-
	0703	12/12/90	0001	JE	O			0.6		0.1	-
	0703	03/30/91	0001	JE	O			0.72		0.01	-
	0703	08/07/91	0001	JE	O			0.44		0.01	-
	0703	12/07/91	0001	JE	O			0.33		0.01	-
	0703	10/11/92	0001	JE	O			0.47		0.01	-
SULFATE	0551	12/12/90	0001	JE	U	MG/L		539.		0.1	-
	0551	03/28/91	0001	JE	U			96.7		0.1	-
	0551	08/06/91	0001	JE	U			71.		0.1	-
	0551	12/11/91	0001	JE	U			133.		20.	-
	0551	10/10/92	0001	JE	U			68.		1.	-
	0703	03/29/89	0001	JE	O			8.		0.1	-
	0703	12/12/90	0001	JE	O			7.4		0.1	-
	0703	03/30/91	0001	JE	O			5.4		0.1	-
	0703	08/07/91	0001	JE	O			6.2		0.1	-
	0703	12/07/91	0001	JE	O		<	10.		10.	-
	0703	10/11/92	0001	JE	O			5.		1.	-
SULFIDE	0551	03/28/91	0001	JE	U	MG/L		42.0		0.1	-
	0551	08/06/91	0001	JE	U			0.4		0.1	-
	0551	12/11/91	0001	JE	U			0.3		0.1	-
	0551	10/10/92	0001	JE	U		<	0.1		0.1	-
	0703	03/30/91	0001	JE	O			0.6		0.1	-
	0703	08/07/91	0001	JE	O			0.1		0.1	-
	0703	12/07/91	0001	JE	O			0.3		0.1	-
	0703	10/11/92	0001	JE	O			0.2		0.1	-
TEMPERATURE	0551	12/12/90	0001	JE	U	C - DEGREE		12.2		-	-
	0551	03/28/91	0001	JE	U			11.8		-	-
	0551	08/06/91	0001	JE	U			15.1		-	-
	0551	12/05/91	0001	JE	U			12.4		-	-
	0551	10/10/92	0001	JE	U			17.5		-	-
	0703	03/29/89	0001	JE	O			15.0		-	-
	0703	12/12/90	0001	JE	O			14.3		-	-
	0703	03/30/91	0001	JE	O			13.4		-	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
U - UPGRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

54

65 DA
6/15/93

TABLE 5 BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/11/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TEMPERATURE	0703	08/07/91	0001	JE	O	C - DEGREE		15.0		-	-
	0703	12/05/91	0001	JE	O			13.9		-	-
	0703	10/11/92	0001	JE	O			16.4		-	-
THALLIUM	0551	12/12/90	0001	JE	U	MG/L	<	0.01		0.01	-
	0551	03/28/91	0001	JE	U		<	0.01		0.01	-
	0551	08/06/91	0001	JE	U		<	0.1	I	0.1	-
	0551	12/11/91	0001	JE	U		<	0.01		0.01	-
	0551	10/10/92	0001	JE	U		<	0.005		0.005	-
	0703	03/29/89	0001	JE	O		<	0.001		0.001	-
	0703	12/12/90	0001	JE	O		<	0.01		0.01	-
	0703	03/30/91	0001	JE	O		<	0.01		0.01	-
	0703	08/07/91	0001	JE	O		<	0.01		0.01	-
	0703	12/07/91	0001	JE	O		<	0.01		0.01	-
	0703	10/11/92	0001	JE	O		<	0.005		0.005	-
THORIUM-230	0551	08/06/91	0001	JE	U	PCI/L		0.3		1.	0.6
	0551	12/05/91	0001	JE	U			0.5		1.	0.7
	0703	08/07/91	0001	JE	O			1.1		1.	0.7
	0703	12/05/91	0001	JE	O			0.7		1.	0.6
TIN	0551	12/12/90	0001	JE	U	MG/L	<	0.005		0.005	-
	0551	03/28/91	0001	JE	U		<	0.005		0.005	-
	0551	08/06/91	0001	JE	U		<	0.005		0.005	-
	0551	12/11/91	0001	JE	U		<	0.005		0.005	-
	0551	10/10/92	0001	JE	U		<	0.005		0.005	-
	0703	03/29/89	0001	JE	O		<	0.001	c	0.001	-
	0703	12/12/90	0001	JE	O		<	0.005		0.005	-
	0703	03/30/91	0001	JE	O		<	0.005		0.005	-
	0703	08/07/91	0001	JE	O		<	0.005		0.005	-
	0703	12/07/91	0001	JE	O		<	0.005		0.005	-
	0703	10/11/92	0001	JE	O		<	0.005		0.005	-
TOTAL DISSOLVED SOLIDS	0551	12/12/90	0001	JE	U	MG/L		1990.		10.	-
	0551	03/28/91	0001	JE	U			612.		10.	-
	0551	08/06/91	0001	JE	U			532.		10.	-
	0551	12/11/91	0001	JE	U			472.		10.	-
	0551	10/10/92	0001	JE	U			484.		10.	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
O - ON-SITE
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
C - CHANGED DETECTION LIMIT

55

66 J.D.A.
6/15/93

TABLE 5 BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/11/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL DISSOLVED SOLIDS	0703	03/29/89	0001	JE	O	MG/L		158.		10.	-
	0703	12/12/90	0001	JE	O			156.		10.	-
	0703	03/30/91	0001	JE	O			188.		10.	-
	0703	08/07/91	0001	JE	O			160.		10.	-
	0703	12/07/91	0001	JE	O			147.		10.	-
	0703	10/11/92	0001	JE	O			158.		10.	-
TOTAL KJELDAHL NITROGEN	0551	03/28/91	0001	JE	U	MG/L	<	1.		1.	-
	0551	08/06/91	0001	JE	U			1.		1.	-
	0551	12/11/91	0001	JE	U		<	2.	I	2.	-
	0703	03/30/91	0001	JE	O		<	1.		1.	-
	0703	08/07/91	0001	JE	O		<	1.		1.	-
	0703	12/07/91	0001	JE	O		<	2.	I	2.	-
TOTAL ORGANIC CARBON	0551	03/28/91	0001	JE	U	MG/L	<	1.		1.	-
	0551	08/06/91	0001	JE	U		<	1.		1.	-
	0551	12/11/91	0001	JE	U			1.		1.	-
	0551	10/10/92	0001	JE	U			2.		1.	-
	0703	03/30/91	0001	JE	O		<	1.		1.	-
	0703	08/07/91	0001	JE	O			1.		1.	-
	0703	12/07/91	0001	JE	O			1.		1.	-
	0703	10/11/92	0001	JE	O			4.		1.	-
URANIUM	0551	12/12/90	0001	JE	U	MG/L		0.0164		0.0003	-
	0551	03/28/91	0001	JE	U			0.005		0.001	-
	0551	08/06/91	0001	JE	U		<	0.001		0.001	-
	0551	12/05/91	0001	JE	U			0.006		0.001	-
	0551	10/10/92	0001	JE	U			0.002		0.001	-
	0703	03/29/89	0001	JE	O			0.007		0.003	0.002
	0703	12/12/90	0001	JE	O			0.0032		0.0003	-
	0703	03/30/91	0001	JE	O			0.004		0.001	-
	0703	08/07/91	0001	JE	O			0.003		0.001	-
	0703	12/05/91	0001	JE	O			0.001		0.001	-
	0703	10/11/92	0001	JE	O			0.003		0.001	-
VANADIUM	0551	12/12/90	0001	JE	U	MG/L		0.03		0.01	-
	0551	03/28/91	0001	JE	U		<	0.01		0.01	-
	0551	08/06/91	0001	JE	U		<	0.01		0.01	-
	0551	12/11/91	0001	JE	U		<	0.01		0.01	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
O - ON-SITE
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

67 J.D.L.
6/15/93

TABLE 5 BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/11/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
VANADIUM	0551	10/10/92	0001	JE	U	MG/L	<	0.01		0.01	-
	0703	03/29/89	0001	JE	O		<	0.01		0.01	-
	0703	12/12/90	0001	JE	O			0.02		0.01	-
	0703	03/30/91	0001	JE	O		<	0.01		0.01	-
	0703	08/07/91	0001	JE	O		<	0.01		0.01	-
	0703	12/07/91	0001	JE	O		<	0.01		0.01	-
	0703	10/11/92	0001	JE	O		<	0.01		0.01	-
ZINC	0551	12/12/90	0001	JE	U	MG/L	<	0.005		0.005	-
	0551	03/28/91	0001	JE	U			0.009		0.005	-
	0551	08/06/91	0001	JE	U		<	0.005		0.005	-
	0551	12/11/91	0001	JE	U		<	0.005		0.005	-
	0551	10/10/92	0001	JE	U		<	0.005		0.005	-
	0703	03/29/89	0001	JE	O		<	0.01	c	0.01	-
	0703	12/12/90	0001	JE	O		<	0.005		0.005	-
	0703	03/30/91	0001	JE	O		<	0.005		0.005	-
	0703	08/07/91	0001	JE	O		<	0.005		0.005	-
	0703	12/07/91	0001	JE	O		<	0.005		0.005	-
	0703	10/11/92	0001	JE	O		<	0.005		0.005	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
U - UPGRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

DATA FILE NAME: M:\DART\SRK01\GWQ10024.DAT

57

68 525
6/15/93

TABLE 6. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/11/92
REPORT DATE: 05/05/93

PARAMETER NAME				UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN					MINIMUM	MAXIMUM *		
ALKALINITY				MG/L CaCO3								
11	139.0000	607.0000	181.0000	244.1818	134.4774	0.5507	0.0	132.1114	356.2522	NORMAL		
ALUMINUM				MG/L								
11	** 0.0500	0.0500	** 0.0500	NA	NA	NA	100.0	** 0.0500	0.0500	NONPARAMETRIC	2	
AMMONIUM				MG/L								
11	0.0500	1.9000	0.1000	NA	NA	NA	36.4	0.0500	0.3000	NONPARAMETRIC	2	
ANTIMONY				MG/L								
11	** 0.0030	** 0.0030	** 0.0030	NA	NA	NA	100.0	** 0.0030	** 0.0030	NONPARAMETRIC	2	
ARSENIC				MG/L								
11	** 0.0050	0.0050	0.0050	NA	NA	NA	100.0	** 0.0050	0.0050	NONPARAMETRIC	2	
BARIUM				MG/L								
11	0.0500	0.3100	0.1200	0.1236	0.0793	0.6412	9.1	0.0576	0.1897	NORMAL		
BERYLLIUM				MG/L								
9	** 0.0050	0.0050	** 0.0050	NA	NA	NA	100.0	** 0.0050	0.0050	NONPARAMETRIC	2	
BORON				MG/L								
8	0.0700	0.4800	+ 0.1400	0.1938	0.1364	0.7039	0.0	** 0.0500	0.3383	NORMAL		
BROMIDE				MG/L								
10	0.0500	0.8000	+ 0.0500	NA	NA	NA	90.0	0.0500	0.2500	NONPARAMETRIC	2	
CADMIUM				MG/L								
11	** 0.0010	0.0025	** 0.0010	NA	NA	NA	100.0	** 0.0010	0.0025	NONPARAMETRIC	2	

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

58

69 J.A.
6/15/93

TABLE 6. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/11/92
REPORT DATE: 05/05/93

PARAMETER NAME					UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN									
CALCIUM				MG/L									
11	18.5000	54.2000	26.0000	27.5455		9.3065	0.3379	0.0		19.7896	35.3013	NORMAL	
CHLORIDE				MG/L									
11	4.0000	696.0000	4.8000	22.6496		7.2023	NA	0.0		4.3698	117.3974	LOGNORMAL	7,8
CHROMIUM				MG/L									
11	** 0.0100	** 0.0100	** 0.0100	NA		NA	NA	100.0	** 0.0100	** 0.0100		NONPARAMETRIC	2
COBALT				MG/L									
9	** 0.0300	** 0.0300	** 0.0300	NA		NA	NA	100.0	** 0.0300	** 0.0300		NONPARAMETRIC	2
COPPER				MG/L									
11	** 0.0100	0.0100	** 0.0100	NA		NA	NA	100.0	** 0.0100	0.0100		NONPARAMETRIC	2
CYANIDE				MG/L									
9	** 0.0100	** 0.0100	** 0.0100	NA		NA	NA	100.0	** 0.0100	** 0.0100		NONPARAMETRIC	2
FLUORIDE				MG/L									
11	0.3000	0.7000	0.6000	0.5364		0.1433	0.2672	0.0		0.4169	0.6558	NORMAL	
GROSS ALPHA				PCI/L									
10	** 1.0000	7.7000	+ 1.9500	NA		NA	NA	0.0	** 1.0000	6.3000		NONPARAMETRIC	9
GROSS BETA				PCI/L									
11	** 0.5000	24.0000	6.0000	NA		NA	NA	0.0	** 0.5000	11.0000		NONPARAMETRIC	9

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

59

70 J.D. 6/15/93

TABLE 6. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/11/92
REPORT DATE: 05/05/93

PARAMETER NAME					UNITS	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE		
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN		MINIMUM					MAXIMUM *					
IRON					MG/L										
11	**	0.0300	**	0.0300	**	0.0300	NA	NA	100.0	**	0.0300	**	0.0300	NONPARAMETRIC	2
LEAD					MG/L										
11	**	0.0030		0.0100	**	0.0030	NA	NA	90.9	**	0.0030		0.0050	NONPARAMETRIC	2
LEAD-210					PCI/L										
4	**	1.5000	**	1.5000	**	1.5000	NA	NA	0.0	**	1.5000	**	1.5000	NONPARAMETRIC	9,4
MAGNESIUM					MG/L										
11		18.0000		81.4000		27.9000	36.6545	19.0421	0.5195	0.0	20.7853		52.5238	NORMAL	
MANGANESE					MG/L										
11	**	0.0100		0.0800	**	0.0100	NA	NA	63.6	**	0.0100		0.0300	NONPARAMETRIC	2
MERCURY					MG/L										
9	**	0.0002	**	0.0002	**	0.0002	NA	NA	100.0	**	0.0002	**	0.0002	NONPARAMETRIC	2
MOLYBDENUM					MG/L										
11		0.0020		0.0700		0.0050	NA	NA	45.5		0.0050		0.0300	NONPARAMETRIC	2
NET GROSS ALPHA ***					PCI/L										
10		-6.2500		4.2700	+	-0.5150	NA	NA	0.0		-4.1200		4.1000	NONPARAMETRIC	9
NICKEL					MG/L										
11	**	0.0400	**	0.0400	**	0.0400	NA	NA	100.0	**	0.0400	**	0.0400	NONPARAMETRIC	2

*** NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

71 D.R.
6/15/93

TABLE 6. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/11/92
REPORT DATE: 05/05/93

PARAMETER NAME				UNITS	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN						MINIMUM	MAXIMUM *		
NITRATE				MG/L								
11	1.0000	8.9000	5.7000		5.3455	2.6808	0.5015	0.0	3.1113	7.5796	NORMAL	
NITRITE AND NITRATE				MG/L								
4	0.8200	1.9800	+ 1.4550		1.4275	0.5061	0.3545	0.0	0.2785	2.5765	NORMAL	
PH				SU								
11	7.7700	8.0400	7.9300		NA	NA	NA	0.0	NA	NA	UNKNOWN	
PHOSPHATE				MG/L								
11	0.0500	0.9000	0.1000		NA	NA	NA	36.4	0.0500	0.6000	NONPARAMETRIC	2
POLONIUM-210				PCI/L								
4	** 1.0000	** 1.0000	** 1.0000		NA	NA	NA	0.0	** 1.0000	** 1.0000	NONPARAMETRIC	9,4
POTASSIUM				MG/L								
11	3.8200	12.5000	7.0800		7.0345	2.2659	0.3221	0.0	5.1462	8.9229	NORMAL	
RADIUM-226				PCI/L								
10	** 0.4000	0.9000	** 0.4000		NA	NA	NA	0.0	** 0.4000	0.6000	NONPARAMETRIC	9
RADIUM-226 + RADIUM-228				PCI/L								
10	0.1000	6.3000	+ 1.3000		1.0433	3.4808	NA	0.0	0.3429	3.1741	LOGNORMAL	7,8
RADIUM-228				PCI/L								
10	** 1.0000	5.9000	+ 1.0500		NA	NA	NA	0.0	** 1.0000	2.2000	NONPARAMETRIC	9

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

61

72 J.L.
6/15/93

TABLE 6. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/11/92
REPORT DATE: 05/05/93

PARAMETER NAME				UNITS					STATISTICAL RANGE			
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS		98% CONFIDENCE INTERVAL MINIMUM	98% CONFIDENCE INTERVAL MAXIMUM *	DISTRIBUTION TYPE	FOOT NOTE
REDOX POTENTIAL				mVOLTS								
4	368.3000	456.1000	+ 439.5500	425.8750	39.4021	0.0925	0.0		336.4126	515.3374	NORMAL	
SELENIUM				MG/L								
11	** 0.0050	0.0210	** 0.0050	NA	NA	NA	63.6	**	0.0050	0.0130	NONPARAMETRIC	2
SILICA - SiO2				MG/L								
11	9.6000	13.0000	10.5000	10.8818	1.0750	0.0988	0.0		9.9859	11.7777	NORMAL	
SILVER				MG/L								
9	** 0.0100	** 0.0100	** 0.0100	NA	NA	NA	100.0	**	0.0100	** 0.0100	NONPARAMETRIC	2
SODIUM				MG/L								
11	2.0000	528.0000	5.8000	19.6147	7.9540	NA	0.0		3.4838	110.4361	LOGNORMAL	7,8
SPECIFIC CONDUCTANCE				UMHO/CM								
9	230.0000	12020.0000	350.0000	753.6291	4.0244	NA	0.0		196.5239	2890.0137	LOGNORMAL	7,8
STRONTIUM				MG/L								
10	0.3300	1.1000	+ 0.5500	0.5910	0.2080	0.3520	0.0		0.4054	0.7766	NORMAL	
SULFATE				MG/L								
11	5.0000	539.0000	8.0000	24.1884	5.3915	NA	9.1		5.9404	98.4909	LOGNORMAL	7,8
SULFIDE				MG/L								
8	** 0.1000	42.0000	+ 0.3000	0.4166	7.5756	NA	12.5	**	0.1000	3.5633	LOGNORMAL	7,8
TEMPERATURE				C - DEGREE								
11	11.8000	17.5000	14.3000	14.2727	1.7749	0.1244	0.0		12.7936	15.7519	NORMAL	

- ** The reported value is the minimum detection limit of the data set
+ The sample size is even, so the median value is the arithmetic average of the two middle values
* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$
2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.
7) The lognormal distribution was used because the data failed the normal distribution test.
8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

62

73 J.A.
6/15/93

TABLE 6. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/11/92
REPORT DATE: 05/05/93

PARAMETER NAME					UNITS								
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE	
									MINIMUM	MAXIMUM *			
THALLIUM					MG/L								
11	** 0.0010	0.0500	0.0050	NA		NA	NA	100.0	0.0025	0.0050	NONPARAMETRIC	2	
THORIUM-230					PCI/L								
4	** 1.0000	1.1000	** 1.0000	** 1.0000		0.3416	0.5255	0.0	** 1.0000	1.4255	NORMAL		
TIN					MG/L								
11	0.0010	0.0025	0.0025	NA		NA	NA	90.9	0.0025	0.0025	NONPARAMETRIC	2	
TOTAL DISSOLVED SOLIDS					MG/L								
11	147.0000	1990.0000	188.0000	310.0882		2.3377	NA	0.0	152.8069	629.2562	LOGNORMAL	7,8	
TOTAL KJELDAHL NITROGEN					MG/L								
6	** 1.0000	1.0000	** 1.0000	NA		NA	NA	83.3	** 1.0000	1.0000	NONPARAMETRIC	2,6	
TOTAL ORGANIC CARBON					MG/L								
8	** 1.0000	4.0000	+ 1.0000	NA		NA	NA	37.5	** 1.0000	4.0000	NONPARAMETRIC	2	
URANIUM					MG/L								
11	0.0005	0.0164	0.0032	0.0046		0.0044	0.9409	9.1	0.0010	0.0083	NORMAL		
VANADIUM					MG/L								
11	** 0.0100	0.0300	** 0.0100	NA		NA	NA	81.8	** 0.0100	0.0200	NONPARAMETRIC	2	
ZINC					MG/L								
11	** 0.0050	0.0090	** 0.0050	NA		NA	NA	90.9	** 0.0050	0.0050	NONPARAMETRIC	2	

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

6) The stat. range is the 96.9% confidence interval due to a sample size of 6. The maximum is the 98.5% one sided confidence int.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

53

74 J.D.
6/15/93

TABLE 7. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/12/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	0558	12/15/90	0001	NA	U	MG/L CaCO3		348.		-	-
	0558	03/30/91	0001	NA	U			368.		-	-
	0558	08/07/91	0001	NA	U			330		-	-
	0558	12/05/91	0001	NA	U			357		-	-
	0558	10/12/92	0001	NA	U			344		-	-
	0668	06/30/86	0001	NA	U			261.		-	-
	0668	10/14/87	0001	NA	U			256.		-	-
	0668	02/19/88	0001	NA	U			292.		-	-
	0668	12/15/90	0001	NA	U			310.		-	-
	0668	03/27/91	0001	NA	U			251.		-	-
	0668	11/18/91	0001	NA	U			267		-	-
	0668	10/11/92	0001	NA	U			263		-	-
ALUMINUM	0558	12/15/90	0001	NA	U	MG/L		0.1		0.1	-
	0558	03/30/91	0001	NA	U		<	0.05		0.05	-
	0558	08/07/91	0001	NA	U		<	0.05		0.05	-
	0558	12/11/91	0001	NA	U		<	0.05		0.05	-
	0558	10/12/92	0001	NA	U		<	0.05		0.05	-
	0668	06/30/86	0001	NA	U			0.3		0.1	-
	0668	10/14/87	0001	NA	U		<	0.1		0.1	-
	0668	02/19/88	0001	NA	U			0.10		0.1	-
	0668	12/15/90	0001	NA	U		<	0.1		0.1	-
	0668	03/27/91	0001	NA	U		<	0.05		0.05	-
	0668	11/18/91	0001	NA	U		<	0.05		0.05	-
	0668	10/11/92	0001	NA	U		<	0.05		0.05	-
AMMONIUM	0558	12/15/90	0001	NA	U	MG/L	<	0.1		0.1	-
	0558	03/30/91	0001	NA	U		<	0.1		0.1	-
	0558	08/07/91	0001	NA	U		<	0.1		0.1	-
	0558	12/11/91	0001	NA	U		<	0.1		0.1	-
	0558	10/12/92	0001	NA	U			0.1		0.1	-
	0668	10/14/87	0001	NA	U			0.1		0.1	-
	0668	02/19/88	0001	NA	U		<	0.1		0.1	-
	0668	12/15/90	0001	NA	U		<	0.1		0.1	-
	0668	03/27/91	0001	NA	U			0.1		0.1	-
	0668	11/18/91	0001	NA	U		<	0.1		0.1	-
	0668	10/11/92	0001	NA	U			0.2		0.1	-
ANTIMONY	0558	12/15/90	0001	NA	U	MG/L	<	0.003		0.003	-
	0558	03/30/91	0001	NA	U		<	0.003		0.003	-
	0558	08/07/91	0001	NA	U		<	0.003		0.003	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

64

75 D.A.
6/15/93

TABLE 7. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/12/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ANTIMONY	0558	12/11/91	0001	NA	U	MG/L	< 0.003		0.003	-
	0558	10/12/92	0001	NA	U		0.003		0.003	-
	0668	12/15/90	0001	NA	U		< 0.003		0.003	-
	0668	03/27/91	0001	NA	U		< 0.003		0.003	-
	0668	11/18/91	0001	NA	U		< 0.003		0.003	-
	0668	10/11/92	0001	NA	U		< 0.003		0.003	-
ARSENIC	0558	12/15/90	0001	NA	U	MG/L	< 0.001		0.01	-
	0558	03/30/91	0001	NA	U		< 0.01		0.01	-
	0558	08/07/91	0001	NA	U		< 0.01		0.01	-
	0558	12/11/91	0001	NA	U		< 0.01		0.01	-
	0558	10/12/92	0001	NA	U		< 0.005		0.005	-
	0668	06/30/86	0001	NA	U		< 0.01		0.01	-
	0668	10/14/87	0001	NA	U		< 0.01		0.01	-
	0668	12/15/90	0001	NA	U		0.005 c		0.005	-
	0668	03/27/91	0001	NA	U		0.01		0.01	-
	0668	11/18/91	0001	NA	U		< 0.01		0.01	-
	0668	10/11/92	0001	NA	U		0.007		0.005	-
BARIUM	0558	12/15/90	0001	NA	U	MG/L	< 0.1		0.1	-
	0558	03/30/91	0001	NA	U		0.04		0.01	-
	0558	08/07/91	0001	NA	U		0.03		0.01	-
	0558	12/11/91	0001	NA	U		0.05		0.01	-
	0558	10/12/92	0001	NA	U		0.03		0.01	-
	0668	10/14/87	0001	NA	U		0.2		0.1	-
	0668	12/15/90	0001	NA	U		0.2		0.1	-
	0668	03/27/91	0001	NA	U		0.16		0.01	-
	0668	11/18/91	0001	NA	U		0.16		0.01	-
	0668	10/11/92	0001	NA	U		0.18		0.01	-
BERYLLIUM	0558	12/15/90	0001	NA	U	MG/L	< 0.01		0.01	-
	0558	03/30/91	0001	NA	U		< 0.005		0.005	-
	0558	08/07/91	0001	NA	U		< 0.005		0.005	-
	0558	12/11/91	0001	NA	U		< 0.005		0.005	-
	0668	12/15/90	0001	NA	U		< 0.01		0.01	-
	0668	03/27/91	0001	NA	U		< 0.005		0.005	-
	0668	11/18/91	0001	NA	U		< 0.005		0.005	-
BORON	0558	12/15/90	0001	NA	U	MG/L	0.3		0.1	-
	0558	03/30/91	0001	NA	U		0.38		0.05	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

65

76 2-0
6/15/93

66

TABLE 7. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/12/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BORON	0558	08/07/91	0001	NA	MG/L	0.48		0.05	-
	0558	12/11/91	0001	NA	U	0.66		0.05	-
	0668	10/14/87	0001	NA	U	0.1		0.1	-
	0668	12/15/90	0001	NA	U	0.1		0.1	-
	0668	03/27/91	0001	NA	U	0.11		0.05	-
BROMIDE	0668	11/18/91	0001	NA	U	0.13		0.05	-
	0558	12/15/90	0001	NA	U	0.1	c	0.1	-
	0558	03/30/91	0001	NA	U	0.4		0.1	-
	0558	08/07/91	0001	NA	U	0.4		0.4	-
	0558	12/11/91	0001	NA	U	0.5		0.1	-
CADMIUM	0558	10/12/92	0001	NA	U	0.3	I	0.3	-
	0668	12/15/90	0001	NA	U	0.1		0.1	-
	0668	03/27/91	0001	NA	U	0.1	c	0.1	-
	0668	11/18/91	0001	NA	U	0.4		0.1	-
	0668	10/11/92	0001	NA	U	0.1		0.1	-
CALCIUM	0558	12/15/90	0001	NA	U	0.001		0.001	-
	0558	03/30/91	0001	NA	U	0.001		0.001	-
	0558	08/07/91	0001	NA	U	0.001		0.001	-
	0558	12/11/91	0001	NA	U	0.001		0.001	-
	0558	10/12/92	0001	NA	U	0.001		0.001	-
CALCIUM	0668	10/14/87	0001	NA	U	0.001		0.001	-
	0668	12/15/90	0001	NA	U	0.001		0.001	-
	0668	03/27/91	0001	NA	U	0.001		0.001	-
	0668	11/18/91	0001	NA	U	0.001		0.001	-
	0668	10/11/92	0001	NA	U	0.001		0.001	-
CALCIUM	0558	12/15/90	0001	NA	U	48.1		0.01	-
	0558	03/30/91	0001	NA	U	50.8		0.5	-
	0558	08/07/91	0001	NA	U	59.9		0.5	-
	0558	12/11/91	0001	NA	U	72.6		0.5	-
	0558	10/12/92	0001	NA	U	78.9		0.5	-
CALCIUM	0668	06/30/86	0001	NA	U	28.1		0.01	-
	0668	10/14/87	0001	NA	U	30.		0.01	-
	0668	02/19/88	0001	NA	U	28.1		0.01	-
	0668	12/15/90	0001	NA	U	29.3		0.01	-
	0668	03/27/91	0001	NA	U	28.9		0.01	-
CALCIUM	0668	11/18/91	0001	NA	U	29.3		0.5	-
	0668	10/11/92	0001	NA	U	29.3		0.5	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (<.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
c - CHANGED DETECTION LIMIT

77 M.D.
6/15/93

TABLE 7. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/12/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CALCIUM	0668	10/11/92	0001	NA	U	MG/L	31.3		0.5	-
CHLORIDE	0558	12/15/90	0001	NA	U	MG/L	43.		1.	-
	0558	03/30/91	0001	NA	U		42.		0.5	-
	0558	08/07/91	0001	NA	U		49.		1.	-
	0558	12/11/91	0001	NA	U		44.		1.	-
	0558	10/12/92	0001	NA	U		67.		1.	-
	0668	06/30/86	0001	NA	U		15.		1.	-
	0668	10/14/87	0001	NA	U		8.9		1.	-
	0668	02/19/88	0001	NA	U		5.1		1.	-
	0668	12/15/90	0001	NA	U		8.		1.	-
	0668	03/27/91	0001	NA	U		9.1		0.5	-
	0668	11/18/91	0001	NA	U		8.7		0.5	-
	0668	10/11/92	0001	NA	U		8.8		0.5	-
CHROMIUM	0558	12/15/90	0001	NA	U	MG/L	< 0.01		0.01	-
	0558	03/30/91	0001	NA	U		< 0.01		0.01	-
	0558	08/07/91	0001	NA	U		< 0.01		0.01	-
	0558	12/11/91	0001	NA	U		< 0.01		0.01	-
	0558	10/12/92	0001	NA	U		< 0.01		0.01	-
	0668	10/14/87	0001	NA	U		< 0.01		0.01	-
	0668	12/15/90	0001	NA	U		< 0.01		0.01	-
	0668	03/27/91	0001	NA	U		< 0.01		0.01	-
	0668	11/18/91	0001	NA	U		< 0.01		0.01	-
	0668	10/11/92	0001	NA	U		< 0.01		0.01	-
COBALT	0558	12/15/90	0001	NA	U	MG/L	< 0.05		0.05	-
	0558	03/30/91	0001	NA	U		< 0.03		0.03	-
	0558	08/07/91	0001	NA	U		< 0.03		0.03	-
	0558	12/11/91	0001	NA	U		< 0.03		0.03	-
	0668	12/15/90	0001	NA	U		< 0.05		0.05	-
	0668	03/27/91	0001	NA	U		< 0.03		0.03	-
	0668	11/18/91	0001	NA	U		< 0.03		0.03	-
COPPER	0558	12/15/90	0001	NA	U	MG/L	< 0.02		0.02	-
	0558	03/30/91	0001	NA	U		< 0.01		0.01	-
	0558	08/07/91	0001	NA	U		< 0.01		0.01	-
	0558	12/11/91	0001	NA	U		< 0.01		0.01	-
	0558	10/12/92	0001	NA	U		< 0.01		0.01	-
	0668	10/14/87	0001	NA	U		< 0.02		0.02	-
	0668	12/15/90	0001	NA	U		< 0.02		0.02	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

67

78 J2
6/15/93

TABLE 7. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/12/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
COPPER	0668	03/27/91	0001	NA	U	MG/L	<	0.01		0.01	-
	0668	11/18/91	0001	NA	U		<	0.01		0.01	-
	0668	10/11/92	0001	NA	U		<	0.01		0.01	-
CYANIDE	0558	12/15/90	0001	NA	U	MG/L	<	0.01		0.01	-
	0558	03/30/91	0001	NA	U		<	0.01		0.01	-
	0558	08/07/91	0001	NA	U		<	0.01		0.01	-
	0558	12/11/91	0001	NA	U		<	0.01		0.01	-
	0668	12/15/90	0001	NA	U		<	0.01		0.01	-
	0668	03/27/91	0001	NA	U		<	0.01		0.01	-
	0668	11/18/91	0001	NA	U		<	0.01		0.01	-
DISSOLVED OXYGEN	0668	10/11/92	0001	NA	U	MG/L		0.3		-	-
FIELD FE (2+)	0668	10/11/92	0001	NA	U	MG/L		0.06		-	-
FIELD FE (TOTAL)	0668	10/11/92	0001	NA	U	MG/L		0.07		-	-
FLUORIDE	0558	12/15/90	0001	NA	U	MG/L		0.6		0.1	-
	0558	03/30/91	0001	NA	U			0.5		0.1	-
	0558	08/07/91	0001	NA	U			0.7		0.1	-
	0558	12/11/91	0001	NA	U			0.6		0.1	-
	0558	10/12/92	0001	NA	U			0.6		0.1	-
	0668	10/14/87	0001	NA	U			0.7		0.1	-
	0668	02/19/88	0001	NA	U			0.74		0.1	-
	0668	12/15/90	0001	NA	U			0.7		0.1	-
	0668	03/27/91	0001	NA	U			0.7		0.1	-
	0668	11/18/91	0001	NA	U			0.7		0.1	-
	0668	10/11/92	0001	NA	U			0.8		0.1	-
GROSS ALPHA	0558	12/15/90	0001	NA	U	PCI/L		8.4		1.	5.0
	0558	03/30/91	0001	NA	U			8.3		1.	7.6
	0558	08/07/91	0001	NA	U			12.6		1.	8.6
	0558	12/05/91	0001	NA	U			1.0		1.	15.0
	0558	10/12/92	0001	NA	U			22.4	N	18.1	13.3
	0668	12/15/90	0001	NA	U			4.8		1.	3.2
	0668	03/27/91	0001	NA	U			5.0		1.	3.7
	0668	11/18/91	0001	NA	U			3.1		1.	3.9
	0668	10/11/92	0001	NA	U			0.0	N	6.9	3.9
GROSS BETA	0558	12/15/90	0001	NA	U	PCI/L		16.		0.5	3.

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS

68

79 M.A
6/15/93

TABLE 7. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/12/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
GROSS BETA	0558	03/30/91	0001	NA	U	PCI/L		14.3		0.5	4.9
	0558	08/07/91	0001	NA	U			17.2		0.5	6.4
	0558	12/05/91	0001	NA	U			0.0		0.5	8.5
	0558	10/12/92	0001	NA	U			23.6	*N	16.8	11.0
	0668	12/15/90	0001	NA	U			8.3		0.5	2.0
	0668	03/27/91	0001	NA	U			10.6		0.5	2.6
	0668	11/18/91	0001	NA	U			5.7		0.5	3.3
	0668	10/11/92	0001	NA	U			9.1	*N	6.0	3.9
IRON	0558	12/15/90	0001	NA	U	MG/L		0.04		0.03	-
	0558	03/30/91	0001	NA	U		<	0.03		0.03	-
	0558	08/07/91	0001	NA	U		<	0.03		0.03	-
	0558	12/11/91	0001	NA	U		<	0.03		0.03	-
	0558	10/12/92	0001	NA	U		<	0.03		0.03	-
	0668	06/30/86	0001	NA	U		<	0.03		0.03	-
	0668	10/14/87	0001	NA	U		<	0.03		0.03	-
	0668	02/19/88	0001	NA	U		<	0.03		0.03	-
	0668	12/15/90	0001	NA	U		<	0.03		0.03	-
	0668	03/27/91	0001	NA	U		<	0.03		0.03	-
	0668	11/18/91	0001	NA	U		<	0.03		0.03	-
	0668	10/11/92	0001	NA	U		<	0.03		0.03	-
LEAD	0558	12/15/90	0001	NA	U	MG/L	<	0.01		0.01	-
	0558	03/30/91	0001	NA	U		<	0.005		0.005	-
	0558	08/07/91	0001	NA	U		<	0.005		0.005	-
	0558	12/11/91	0001	NA	U		<	0.005		0.005	-
	0558	10/12/92	0001	NA	U		<	0.02	I	0.02	-
	0668	10/14/87	0001	NA	U		<	0.01		0.01	-
	0668	12/15/90	0001	NA	U		<	0.01		0.01	-
	0668	03/27/91	0001	NA	U		<	0.005		0.005	-
	0668	11/18/91	0001	NA	U		<	0.005		0.005	-
	0668	10/11/92	0001	NA	U		<	0.003		0.003	-
LEAD-210	0558	08/07/91	0001	NA	U	PCI/L		1.3		1.5	0.9
	0558	12/05/91	0001	NA	U			0.6		1.5	1.3
	0668	11/18/91	0001	NA	U			0.0		1.5	0.8
MAGNESIUM	0558	12/15/90	0001	NA	U	MG/L		66.7		0.001	-
	0558	03/30/91	0001	NA	U			74.1		0.5	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
* - DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS

69

80 JJ
6/13/93

TABLE 7. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/12/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MAGNESIUM	0558	08/07/91	0001	NA	U	MG/L		91.4		0.5	-
	0558	12/11/91	0001	NA	U			99.1		0.5	-
	0558	10/12/92	0001	NA	U			109.		0.5	-
	0668	06/30/86	0001	NA	U			44.4		0.001	-
	0668	10/14/87	0001	NA	U			45.		0.001	-
	0668	02/19/88	0001	NA	U			44.8		0.001	-
	0668	12/15/90	0001	NA	U			45.9		0.001	-
	0668	03/27/91	0001	NA	U			45.1		0.1	-
	0668	11/18/91	0001	NA	U			44.3		0.1	-
	0668	10/11/92	0001	NA	U			40.9		0.1	-
MANGANESE	0558	12/15/90	0001	NA	U	MG/L		0.06		0.01	-
	0558	03/30/91	0001	NA	U			0.05		0.01	-
	0558	08/07/91	0001	NA	U			0.02		0.01	-
	0558	12/11/91	0001	NA	U		<	0.01		0.01	-
	0558	10/12/92	0001	NA	U		<	0.01		0.01	-
	0668	06/30/86	0001	NA	U			0.04		0.01	-
	0668	10/14/87	0001	NA	U		<	0.01		0.01	-
	0668	02/19/88	0001	NA	U			0.01		0.01	-
	0668	12/15/90	0001	NA	U			0.01		0.01	-
	0668	03/27/91	0001	NA	U			0.01		0.01	-
	0668	11/18/91	0001	NA	U		<	0.01		0.01	-
	0668	10/11/92	0001	NA	U			0.06		0.01	-
MERCURY	0558	12/15/90	0001	NA	U	MG/L	<	0.0002		0.0002	-
	0558	03/30/91	0001	NA	U		<	0.0002		0.0002	-
	0558	08/07/91	0001	NA	U		<	0.0002		0.0002	-
	0558	12/11/91	0001	NA	U		<	0.0002		0.0002	-
	0668	10/14/87	0001	NA	U		<	0.0002		0.0002	-
	0668	12/15/90	0001	NA	U		<	0.0002		0.0002	-
	0668	03/27/91	0001	NA	U		<	0.0002		0.0002	-
	0668	11/18/91	0001	NA	U		<	0.0002		0.0002	-
MOLYBDENUM	0558	12/15/90	0001	NA	U	MG/L		0.03		0.01	-
	0558	03/30/91	0001	NA	U		<	0.01		0.01	-
	0558	08/07/91	0001	NA	U		<	0.01		0.01	-
	0558	12/11/91	0001	NA	U		<	0.01		0.01	-
	0558	10/12/92	0001	NA	U		<	0.01		0.01	-
	0668	06/30/86	0001	NA	U			0.17		0.01	-
	0668	10/14/87	0001	NA	U		<	0.01		0.01	-
	0668	02/19/88	0001	NA	U			0.06		0.01	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

70

81 J.R.
6/15/93

TABLE 7. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/12/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MOLYBDENUM	0668	12/15/90	0001	NA	U	MG/L	0.02		0.01	-
	0668	03/27/91	0001	NA	U		< 0.01		0.01	-
	0668	11/18/91	0001	NA	U		< 0.01		0.01	-
	0668	10/11/92	0001	NA	U		0.01		0.01	-
NET GROSS ALPHA *	0558	12/15/90	0001	NA	U	PCI/L	-1.20		-	-
	0558	03/30/91	0001	NA	U		0.75		-	-
	0558	08/07/91	0001	NA	U		0.25		-	-
	0558	12/05/91	0001	NA	U		-7.92		-	-
	0558	10/12/92	0001	NA	U		1.13		-	-
	0668	12/15/90	0001	NA	U		2.54		-	-
	0668	03/27/91	0001	NA	U		3.63		-	-
	0668	11/18/91	0001	NA	U		0.36		-	-
NICKEL	0668	10/11/92	0001	NA	U		-0.69		-	-
	0558	12/15/90	0001	NA	U	MG/L	< 0.05	c	0.05	-
	0558	03/30/91	0001	NA	U		0.04		0.04	-
	0558	08/07/91	0001	NA	U		< 0.04		0.04	-
	0558	12/11/91	0001	NA	U		< 0.04		0.04	-
	0558	10/12/92	0001	NA	U		< 0.04		0.04	-
	0668	10/14/87	0001	NA	U		< 0.04		0.04	-
	0668	02/19/88	0001	NA	U		0.01	c	0.01	-
	0668	12/15/90	0001	NA	U		< 0.05	c	0.05	-
	0668	03/27/91	0001	NA	U		< 0.04		0.04	-
	0668	11/18/91	0001	NA	U		< 0.04		0.04	-
	0668	10/11/92	0001	NA	U		< 0.04		0.04	-
NITRATE	0558	12/15/90	0001	NA	U	MG/L	2.		1.	-
	0558	03/30/91	0001	NA	U		5.6		1.	-
	0558	08/07/91	0001	NA	U		4.0		1.	-
	0558	12/11/91	0001	NA	U		5.7		1.	-
	0558	10/12/92	0001	NA	U		11.3		1.0	-
	0668	06/30/86	0001	NA	U		< 1.		1.	-
	0668	10/14/87	0001	NA	U		< 1.0		1.	-
	0668	02/19/88	0001	NA	U		0.3	c	0.3	-
	0668	12/15/90	0001	NA	U		< 1.		1.	-
	0668	03/27/91	0001	NA	U		5.4		1.	-
	0668	11/18/91	0001	NA	U		< 1.0		1.	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

17

82 DJ
6/15/93

TABLE 7. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/12/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NITRATE	0668	10/11/92	0001	NA	U	MG/L		2.4		1.0	-
NITRITE AND NITRATE	0558	12/15/90	0001	NA	U	MG/L		2.		1.	-
	0558	03/30/91	0001	NA	U			1.27		0.05	-
	0558	08/07/91	0001	NA	U			0.87		0.05	-
	0668	02/19/88	0001	NA	U			0.3	c	0.3	-
	0668	12/15/90	0001	NA	U		<	1.		1.	-
	0668	03/27/91	0001	NA	U			1.24		0.05	-
PH	0558	12/15/90	0001	NA	U	SU		7.80		-	-
	0558	03/30/91	0001	NA	U			7.49		-	-
	0558	08/07/91	0001	NA	U			7.58		-	-
	0558	12/05/91	0001	NA	U			7.59		-	-
	0558	10/12/92	0001	NA	U			7.47		-	-
	0668	06/30/86	0001	NA	U			7.47		-	-
	0668	10/14/87	0001	NA	U			7.43		-	-
	0668	02/19/88	0001	NA	U			7.41		-	-
	0668	12/15/90	0001	NA	U			7.65		-	-
	0668	03/27/91	0001	NA	U			7.69		-	-
PHOSPHATE	0558	12/15/90	0001	NA	U	MG/L	<	0.1		0.1	-
	0558	03/30/91	0001	NA	U		<	0.1		0.1	-
	0558	08/07/91	0001	NA	U		<	0.1		0.1	-
	0558	12/11/91	0001	NA	U			0.2		0.1	-
	0558	10/12/92	0001	NA	U			0.8	J	0.1	-
	0668	10/14/87	0001	NA	U		<	0.1		0.1	-
	0668	12/15/90	0001	NA	U		<	0.1		0.1	-
	0668	03/27/91	0001	NA	U		<	0.1		0.1	-
	0668	11/18/91	0001	NA	U			0.2		0.1	-
	0668	10/11/92	0001	NA	U			0.1	J	0.1	-
POLONIUM-210	0558	08/07/91	0001	NA	U	PCI/L		0.3		1.	0.4
	0558	12/05/91	0001	NA	U			0.1		1.	0.4
	0668	11/18/91	0001	NA	U			0.0		1.	0.4
POTASSIUM	0558	12/15/90	0001	NA	U	MG/L		14.5		0.01	-
	0558	03/30/91	0001	NA	U			9.4		0.01	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE
c - CHANGED DETECTION LIMIT

72

83 J.L.
6/4/93

TABLE 7. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/12/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
POTASSIUM	0558	08/07/91	0001	NA	U	MG/L	10.9		0.01	-
	0558	12/11/91	0001	NA	U		12.		5.	-
	0558	10/12/92	0001	NA	U		10.		5.	-
	0668	06/30/86	0001	NA	U		9.12		0.01	-
	0668	10/14/87	0001	NA	U		9.1		0.01	-
	0668	02/19/88	0001	NA	U		8.60		0.01	-
	0668	12/15/90	0001	NA	U		9.1		0.01	-
	0668	03/27/91	0001	NA	U		8.5		0.01	-
	0668	11/18/91	0001	NA	U		7.89		0.01	-
	0668	10/11/92	0001	NA	U		8.11		0.01	-
RADIUM-226	0558	12/15/90	0001	NA	U	PCI/L	0.4	c	0.7	0.3
	0558	03/30/91	0001	NA	U		0.2		1.	0.2
	0558	08/07/91	0001	NA	U		0.3		1.	0.2
	0558	12/05/91	0001	NA	U		0.5		1.	0.3
	0558	10/12/92	0001	NA	U		0.3		0.8	0.5
	0668	10/14/87	0001	NA	U		0.8		1.	0.3
	0668	02/19/88	0001	NA	U		0.4	c	0.6	0.2
	0668	12/15/90	0001	NA	U		0.8		1.	0.3
	0668	03/27/91	0001	NA	U		0.3		1.	0.2
	0668	11/18/91	0001	NA	U		0.5		1.	0.4
	0668	10/11/92	0001	NA	U		0.7		0.8	0.6
RADIUM-226 + RADIUM-228	0558	12/15/90	0001	NA	U	PCI/L	1.50		-	-
	0558	03/30/91	0001	NA	U		7.60		-	-
	0558	08/07/91	0001	NA	U		0.30		-	-
	0558	12/05/91	0001	NA	U		15.10		-	-
	0558	10/12/92	0001	NA	U		0.30		-	-
	0668	10/14/87	0001	NA	U		1.40		-	-
	0668	12/15/90	0001	NA	U		1.90		-	-
	0668	03/27/91	0001	NA	U		6.80		-	-
	0668	11/18/91	0001	NA	U		0.50		-	-
	0668	10/11/92	0001	NA	U		1.20		-	-
RADIUM-228	0558	12/15/90	0001	NA	U	PCI/L	1.1		1.	0.8
	0558	03/30/91	0001	NA	U		7.4		1.	1.4
	0558	08/07/91	0001	NA	U		0.0		1.	1.5
	0558	12/05/91	0001	NA	U		14.6		1.	1.9
	0558	10/12/92	0001	NA	U		0.0		2.7	1.6
	0668	10/14/87	0001	NA	U		0.6		1.	0.8

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

73

84 M.L
6/15/93

TABLE 7. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/12/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
RADIUM-228	0668	12/15/90	0001	NA	U	PC1/L	1.1		1.	0.8
	0668	03/27/91	0001	NA	U		6.5		1.	1.3
	0668	11/18/91	0001	NA	U		0.0		1.	1.0
	0668	10/11/92	0001	NA	U		0.5		2.4	1.5
REDOX POTENTIAL	0558	12/15/90	0001	NA	U	mVOLTS	419.		-	-
	0558	10/12/92	0001	NA	U		402.5		-	-
	0668	12/15/90	0001	NA	U		362.8		-	-
	0668	10/11/92	0001	NA	U		427.8		-	-
SELENIUM	0558	12/15/90	0001	NA	U	MG/L	0.008		0.005	-
	0558	03/30/91	0001	NA	U		< 0.005		0.005	-
	0558	08/07/91	0001	NA	U		< 0.05	I	0.05	-
	0558	12/11/91	0001	NA	U		0.04		0.03	-
	0558	10/12/92	0001	NA	U		0.020		0.005	-
	0668	06/30/86	0001	NA	U		< 0.005		0.005	-
	0668	10/14/87	0001	NA	U		< 0.005		0.005	-
	0668	12/15/90	0001	NA	U		< 0.005		0.005	-
	0668	03/27/91	0001	NA	U		< 0.03	I	0.03	-
	0668	11/18/91	0001	NA	U		< 0.005		0.005	-
	0668	10/11/92	0001	NA	U		< 0.005		0.005	-
SILICA - SiO2	0558	12/15/90	0001	NA	U	MG/L	14.		2.	-
	0558	03/30/91	0001	NA	U		11.6		0.1	-
	0558	08/07/91	0001	NA	U		14.7		0.1	-
	0558	12/11/91	0001	NA	U		14.7		0.1	-
	0558	10/12/92	0001	NA	U		14.8		0.1	-
	0668	10/14/87	0001	NA	U		7.8		2.	-
	0668	02/19/88	0001	NA	U		6.7		2.	-
	0668	12/15/90	0001	NA	U		8.		2.	-
	0668	03/27/91	0001	NA	U		7.2		0.1	-
	0668	11/18/91	0001	NA	U		7.9		0.1	-
	0668	10/11/92	0001	NA	U		11.8		0.1	-
SILVER	0558	12/15/90	0001	NA	U	MG/L	< 0.01		0.01	-
	0558	03/30/91	0001	NA	U		< 0.01		0.01	-
	0558	08/07/91	0001	NA	U		< 0.01		0.01	-
	0558	12/11/91	0001	NA	U		< 0.01		0.01	-
	0668	06/30/86	0001	NA	U		0.3		0.1	-
	0668	10/14/87	0001	NA	U		< 0.01		0.01	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

hzt

85 J.L.
6/15/93

TABLE 7. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/12/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SILVER	0668	12/15/90	0001	NA	U	MG/L	<	0.01		0.01	-
	0668	03/27/91	0001	NA	U		<	0.01		0.01	-
	0668	11/18/91	0001	NA	U		<	0.01		0.01	-
SODIUM	0558	12/15/90	0001	NA	U	MG/L		50.8		0.002	-
	0558	03/30/91	0001	NA	U			56.		5.	-
	0558	08/07/91	0001	NA	U			75.		1.	-
	0558	12/11/91	0001	NA	U			96.		1.	-
	0558	10/12/92	0001	NA	U			131.		5.	-
	0668	06/30/86	0001	NA	U			11.1		0.002	-
	0668	10/14/87	0001	NA	U			9.8		0.002	-
	0668	02/19/88	0001	NA	U			10.4		0.002	-
	0668	12/15/90	0001	NA	U			9.93		0.002	-
	0668	03/27/91	0001	NA	U			9.0		0.01	-
	0668	11/18/91	0001	NA	U			10.0		0.01	-
	0668	10/11/92	0001	NA	U			15.		1.	-
SPECIFIC CONDUCTANCE	0558	12/15/90	0001	NA	U	UMHO/CH		960.		-	-
	0558	08/07/91	0001	NA	U			997		-	-
	0558	12/05/91	0001	NA	U			1420		-	-
	0558	10/12/92	0001	NA	U			1330		-	-
	0668	06/30/86	0001	NA	U			390.		-	-
	0668	10/14/87	0001	NA	U			300.		-	-
	0668	02/19/88	0001	NA	U			370.		-	-
	0668	12/15/90	0001	NA	U			521.		-	-
	0668	11/18/91	0001	NA	U			530		-	-
STRONTIUM	0558	12/15/90	0001	NA	U	MG/L		0.9		0.1	-
	0558	03/30/91	0001	NA	U			0.93		0.01	-
	0558	08/07/91	0001	NA	U			1.13		0.01	-
	0558	12/11/91	0001	NA	U			1.29		0.01	-
	0558	10/12/92	0001	NA	U			1.27		0.01	-
	0668	12/15/90	0001	NA	U			0.9		0.1	-
	0668	03/27/91	0001	NA	U			0.90		0.01	-
	0668	11/18/91	0001	NA	U			0.89		0.01	-
	0668	10/11/92	0001	NA	U			0.91		0.01	-
SULFATE	0558	12/15/90	0001	NA	U	MG/L		143.		0.1	-
	0558	03/30/91	0001	NA	U			181.		0.1	-
	0558	08/07/91	0001	NA	U			343.		0.1	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

75

86 JAL
6/15/93

TABLE 7. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/12/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SULFATE	0558	12/11/91	0001	NA	U	MG/L		206.		20.	-
	0558	10/12/92	0001	NA	U			432.		30.	-
	0668	06/30/86	0001	NA	U			14.8		0.1	-
	0668	10/14/87	0001	NA	U			11.		0.1	-
	0668	02/19/88	0001	NA	U			13.		0.1	-
	0668	12/15/90	0001	NA	U			11.9		0.1	-
	0668	03/27/91	0001	NA	U			14.0		0.1	-
	0668	11/18/91	0001	NA	U			17.		10.	-
	0668	10/11/92	0001	NA	U			14.		1.	-
SULFIDE	0558	12/15/90	0001	NA	U	MG/L	<	0.1		0.1	-
	0558	03/30/91	0001	NA	U			20.9		1.	-
	0558	08/07/91	0001	NA	U			0.3		0.1	-
	0558	12/11/91	0001	NA	U			0.3		0.1	-
	0558	10/12/92	0001	NA	U		<	0.1		0.1	-
	0668	06/30/86	0001	NA	U		<	0.1		0.1	-
	0668	12/15/90	0001	NA	U		<	0.1		0.1	-
	0668	03/27/91	0001	NA	U			16.6		0.1	-
	0668	11/18/91	0001	NA	U			0.1		0.1	-
	0668	10/11/92	0001	NA	U			0.2		0.1	-
TEMPERATURE	0558	12/15/90	0001	NA	U	C - DEGREE		10.5		-	-
	0558	03/30/91	0001	NA	U			13.3		-	-
	0558	08/07/91	0001	NA	U			14.3		-	-
	0558	12/05/91	0001	NA	U			12.3		-	-
	0558	10/12/92	0001	NA	U			16.8		-	-
	0668	06/30/86	0001	NA	U			15.5		-	-
	0668	10/14/87	0001	NA	U			15.0		-	-
	0668	02/19/88	0001	NA	U			13.5		-	-
	0668	12/15/90	0001	NA	U			13.4		-	-
	0668	03/27/91	0001	NA	U			13.8		-	-
	0668	11/18/91	0001	NA	U			12.8		-	-
	0668	10/11/92	0001	NA	U			14.7		-	-
THALLIUM	0558	12/15/90	0001	NA	U	MG/L	<	0.01		0.01	-
	0558	03/30/91	0001	NA	U		<	0.01		0.01	-
	0558	08/07/91	0001	NA	U		<	0.01		0.01	-
	0558	12/11/91	0001	NA	U		<	0.01		0.01	-
	0558	10/12/92	0001	NA	U		<	0.005		0.005	-
	0668	12/15/90	0001	NA	U		<	0.01		0.01	-
	0668	03/27/91	0001	NA	U		<	0.01		0.01	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

87 J.L.
6/15/93

TABLE 7. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/12/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
THALLIUM	0668	11/18/91	0001	NA	U	MG/L	< 0.01		0.01	-
	0668	10/11/92	0001	NA	U		< 0.005		0.005	-
THORIUM-230	0558	08/07/91	0001	NA	U	PCI/L	0.5		1.	0.6
	0558	12/05/91	0001	NA	U		0.9		1.	0.7
	0668	11/18/91	0001	NA	U		1.2		1.	1.0
TIN	0558	12/15/90	0001	NA	U	MG/L	< 0.005		0.005	-
	0558	03/30/91	0001	NA	U		< 0.005		0.005	-
	0558	08/07/91	0001	NA	U		< 0.05	I	0.05	-
	0558	12/11/91	0001	NA	U		< 0.03	I	0.03	-
	0558	10/12/92	0001	NA	U		< 0.05	I	0.05	-
	0668	12/15/90	0001	NA	U		< 0.005		0.005	-
	0668	03/27/91	0001	NA	U		< 0.005		0.005	-
	0668	11/18/91	0001	NA	U		< 0.005		0.005	-
	0668	10/11/92	0001	NA	U		< 0.005		0.005	-
TOTAL DISSOLVED SOLIDS	0558	12/15/90	0001	NA	U	MG/L	572.		10.	-
	0558	03/30/91	0001	NA	U		664.		10.	-
	0558	08/07/91	0001	NA	U		800.		10.	-
	0558	12/11/91	0001	NA	U		662.		10.	-
	0558	10/12/92	0001	NA	U		1160.		10.	-
	0668	06/30/86	0001	NA	U		355.		10.	-
	0668	10/14/87	0001	NA	U		276.		10.	-
	0668	02/19/88	0001	NA	U		229.		10.	-
	0668	12/15/90	0001	NA	U		272.		10.	-
	0668	03/27/91	0001	NA	U		290.		10.	-
	0668	11/18/91	0001	NA	U		286.		10.	-
	0668	10/11/92	0001	NA	U		263.		10.	-
TOTAL KJELDAHL NITROGEN	0558	12/15/90	0001	NA	U	MG/L	3.		1.	-
	0558	03/30/91	0001	NA	U		< 1.		1.	-
	0558	08/07/91	0001	NA	U		< 1.		1.	-
	0558	12/11/91	0001	NA	U		< 2.	I	2.	-
	0668	12/15/90	0001	NA	U		< 1.		1.	-
	0668	03/27/91	0001	NA	U		< 1.		1.	-
	0668	11/18/91	0001	NA	U		< 2.	I	2.	-
TOTAL ORGANIC CARBON	0558	12/15/90	0001	NA	U	MG/L	162.		1.	-
	0558	03/30/91	0001	NA	U		1.		1.	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

77

88 6/15/93
S.D.

TABLE 7. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/12/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL ORGANIC CARBON	0558	08/07/91	0001	NA	U	MG/L		2.		1.	-
	0558	12/11/91	0001	NA	U			2.		1.	-
	0558	10/12/92	0001	NA	U			4.		1.	-
	0668	12/15/90	0001	NA	U			59.		1.	-
	0668	03/27/91	0001	NA	U		<	1.		1.	-
	0668	11/18/91	0001	NA	U			2.		1.	-
	0668	10/11/92	0001	NA	U		<	1.		1.	-
URANIUM	0558	12/15/90	0001	NA	U	MG/L		0.0140		0.0003	-
	0558	03/30/91	0001	NA	U			0.011		0.001	-
	0558	08/07/91	0001	NA	U			0.018		0.001	-
	0558	12/05/91	0001	NA	U			0.013		0.001	-
	0558	10/12/92	0001	NA	U			0.031		0.001	-
	0668	06/30/86	0001	NA	U			0.0028 c		0.0028	-
	0668	10/14/87	0001	NA	U			0.003		0.003	-
	0668	02/19/88	0001	NA	U			0.0028 c		0.0028	-
	0668	12/15/90	0001	NA	U			0.0033		0.0003	-
	0668	03/27/91	0001	NA	U			0.002		0.001	-
	0668	11/18/91	0001	NA	U			0.004		0.001	-
	0668	10/11/92	0001	NA	U			0.001		0.001	-
VANADIUM	0558	12/15/90	0001	NA	U	MG/L	<	0.01		0.01	-
	0558	03/30/91	0001	NA	U		<	0.01		0.01	-
	0558	08/07/91	0001	NA	U		<	0.01		0.01	-
	0558	12/11/91	0001	NA	U		<	0.01		0.01	-
	0558	10/12/92	0001	NA	U		<	0.01		0.01	-
	0668	06/30/86	0001	NA	U			0.44		0.01	-
	0668	10/14/87	0001	NA	U		<	0.01		0.01	-
	0668	12/15/90	0001	NA	U		<	0.01		0.01	-
	0668	03/27/91	0001	NA	U		<	0.01		0.01	-
	0668	11/18/91	0001	NA	U		<	0.01		0.01	-
	0668	10/11/92	0001	NA	U		<	0.01		0.01	-
ZINC	0558	12/15/90	0001	NA	U	MG/L	<	0.005		0.005	-
	0558	03/30/91	0001	NA	U		<	0.005		0.005	-
	0558	08/07/91	0001	NA	U		<	0.005		0.005	-
	0558	12/11/91	0001	NA	U			0.007		0.005	-
	0558	10/12/92	0001	NA	U		<	0.005		0.005	-
	0668	10/14/87	0001	NA	U		<	0.005		0.005	-
	0668	12/15/90	0001	NA	U		<	0.005		0.005	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

87

89 D.A.
6/15/93

TABLE 7. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/12/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ZINC	0668	03/27/91	0001	NA	U	MG/L			0.013	-
	0668	11/18/91	0001	NA	U		<		0.005	-
	0668	10/11/92	0001	NA	U		<		0.005	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

DATA FILE NAME: M:\DART\SRK01\GWQ10032.DAT

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90 2.2
6/15/93

TABLE 8. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/12/92
REPORT DATE: 05/05/93

PARAMETER NAME					UNITS					STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS						
ALKALINITY					MG/L CaCO3								
12	251.0000	368.0000	+ 301.0000	303.9167	44.0133	0.1448	0.0	269.3830	338.4504	NORMAL			
ALUMINUM					MG/L								
12	** 0.0500	0.3000	** 0.0500	NA	NA	NA	75.0	** 0.0500	0.1000	NONPARAMETRIC			2
AMMONIUM					MG/L								
11	** 0.1000	0.2000	** 0.1000	NA	NA	NA	63.6	** 0.1000	0.1000	NONPARAMETRIC			2
ANTIMONY					MG/L								
9	** 0.0030	0.0030	** 0.0030	NA	NA	NA	88.9	** 0.0030	0.0030	NONPARAMETRIC			2
ARSENIC					MG/L								
11	** 0.0050	0.0100	0.0050	NA	NA	NA	72.7	0.0050	0.0070	NONPARAMETRIC			2
BARIUM					MG/L								
10	0.0300	0.2000	+ 0.1050	0.1100	0.0753	0.6843	10.0	0.0428	0.1772	NORMAL			
BERYLLIUM					MG/L								
7	** 0.0050	0.0050	** 0.0050	NA	NA	NA	100.0	** 0.0050	0.0050	NONPARAMETRIC			2
BORON					MG/L								
8	0.1000	0.6600	+ 0.2150	0.2825	0.2108	0.7461	0.0	0.0591	0.5059	NORMAL			
BROMIDE					MG/L								
9	** 0.1000	0.5000	0.1500	NA	NA	NA	55.6	** 0.1000	0.5000	NONPARAMETRIC			2
CADMIUM					MG/L								
10	** 0.0010	** 0.0010	** 0.0010	NA	NA	NA	100.0	** 0.0010	** 0.0010	NONPARAMETRIC			2

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

28

91 J.L.
6/15/93

TABLE 8. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/12/92
REPORT DATE: 05/05/93

PARAMETER NAME					UNITS						STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION	FOOT
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS		MINIMUM	MAXIMUM *	TYPE	NOTE	
CALCIUM					MG/L									
12	28.1000	78.9000	+ 30.6500	42.9417		18.7362	0.4363	0.0		28.2409	57.6424	NORMAL		
CHLORIDE					MG/L									
12	5.1000	67.0000	+ 12.0500	25.7167		21.6018	0.8400	0.0		8.7675	42.6658	NORMAL		
CHROMIUM					MG/L									
10	** 0.0100	** 0.0100	** 0.0100	NA		NA	NA	100.0	** 0.0100	** 0.0100		NONPARAMETRIC	2	
COBALT					MG/L									
7	** 0.0300	** 0.0300	** 0.0300	NA		NA	NA	100.0	** 0.0300	** 0.0300		NONPARAMETRIC	2	
COPPER					MG/L									
10	** 0.0100	0.0100	** 0.0100	NA		NA	NA	100.0	** 0.0100	0.0100		NONPARAMETRIC	2	
CYANIDE					MG/L									
7	** 0.0100	** 0.0100	** 0.0100	NA		NA	NA	100.0	** 0.0100	** 0.0100		NONPARAMETRIC	2	
DISSOLVED OXYGEN					MG/L									
1	0.3000	0.3000	0.3000	NA		NA	NA	0.0		NA	NA	UNKNOWN	1	
FIELD FE (2+)					MG/L									
1	0.0600	0.0600	0.0600	NA		NA	NA	0.0		NA	NA	UNKNOWN	1	
FIELD FE (TOTAL)					MG/L									
1	0.0700	0.0700	0.0700	NA		NA	NA	0.0		NA	NA	UNKNOWN	1	
FLUORIDE					MG/L									
11	0.5000	0.8000	0.7000	0.6673		0.0836	0.1252	0.0		0.5976	0.7369	NORMAL		

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

92 D-2
6/15/93

TABLE 8. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/12/92
REPORT DATE: 05/05/93

PARAMETER NAME					UNITS					STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION	FOOT
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	MINIMUM	MAXIMUM *	TYPE	NOTE		
GROSS ALPHA					PCI/L								
9	** 1.0000	22.4000	5.0000	NA	NA	NA	0.0	** 1.0000	22.4000	NONPARAMETRIC	9		
GROSS BETA					PCI/L								
9	** 0.5000	23.6000	10.6000	NA	NA	NA	0.0	** 0.5000	23.6000	NONPARAMETRIC	9		
IRON					MG/L								
12	** 0.0300	0.0400	** 0.0300	NA	NA	NA	83.3	** 0.0300	0.0300	NONPARAMETRIC	2		
LEAD					MG/L								
10	** 0.0030	0.0100	** 0.0030	NA	NA	NA	100.0	** 0.0030	0.0050	NONPARAMETRIC	2		
LEAD-210					PCI/L								
3	** 1.5000	** 1.5000	** 1.5000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1		
MAGNESIUM					MG/L								
12	40.9000	109.0000	+ 45.5000	62.5583	24.8860	0.3978	0.0	43.0323	82.0844	NORMAL			
MANGANESE					MG/L								
12	** 0.0100	0.0600	+ 0.0100	NA	NA	NA	33.3	** 0.0100	0.0600	NONPARAMETRIC	2		
MERCURY					MG/L								
8	** 0.0002	** 0.0002	** 0.0002	NA	NA	NA	100.0	** 0.0002	** 0.0002	NONPARAMETRIC	2		
MOLYBDENUM					MG/L								
12	** 0.0100	0.1700	** 0.0100	NA	NA	NA	58.3	** 0.0100	0.0600	NONPARAMETRIC	2		
NET GROSS ALPHA ***					PCI/L								
9	-7.9200	3.6300	0.3600	NA	NA	NA	0.0	-7.9200	3.6300	NONPARAMETRIC	9		

*** NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

82

93 D.L.
6/15/93

TABLE 8. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/12/92
REPORT DATE: 05/05/93

PARAMETER NAME					UNITS								
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE		
								MINIMUM	MAXIMUM *				
NICKEL				MG/L									
11	0.0100	0.0400	0.0200	NA	NA	NA	81.8	0.0200	0.0250	NONPARAMETRIC	2		
NITRATE				MG/L									
12	0.3000	11.3000 +	2.2000	NA	NA	NA	33.3	0.5000	5.7000	NONPARAMETRIC	2		
NITRITE AND NITRATE				MG/L									
6	0.3000	2.0000 +	1.0550	NA	NA	NA	16.7	0.3000	2.0000	NONPARAMETRIC	2,6		
PH				SU									
12	7.4100	7.8200 +	7.5850	NA	NA	NA	0.0	NA	NA	UNKNOWN			
PHOSPHATE				MG/L									
10	** 0.1000	0.8000 **	0.1000	NA	NA	NA	60.0	** 0.1000	0.2000	NONPARAMETRIC	2		
POLONIUM-210				PCI/L									
3	** 1.0000	** 1.0000 **	1.0000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1		
POTASSIUM				MG/L									
12	7.8900	14.5000 +	9.1100	9.7683	1.8927	0.1938	0.0	8.2833	11.2534	NORMAL			
RADIUM-226				PCI/L									
11	** 0.6000	0.8000 **	0.6000	** 0.6000	0.2102	0.4446	0.0	** 0.6000	0.6479	NORMAL			
RADIUM-226 + RADIUM-228				PCI/L									
10	0.3000	15.1000 +	1.4500	1.6694	3.8942	NA	0.0	0.4964	5.6139	LOGNORMAL	7,8		

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

6) The stat. range is the 96.9% confidence interval due to a sample size of 6. The maximum is the 98.5% one sided confidence int.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

94 J.L.
6/15/93

TABLE 8. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/12/92
REPORT DATE: 05/05/93

PARAMETER NAME					UNITS	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	MINIMUM				MAXIMUM *			
RADIUM-228					PCI/L							
10	** 1.0000	14.6000	** 1.0000	NA	NA	NA	0.0	** 1.0000	7.4000	NONPARAMETRIC	9	
REDOX POTENTIAL					mVOLTS							
4	362.8000	427.8000	+ 410.7500	403.0250	28.7943	0.0714	0.0	337.6476	468.4024	NORMAL		
SELENIUM					MG/L							
11	** 0.0050	0.0400	** 0.0050	NA	NA	NA	72.7	** 0.0050	0.0250	NONPARAMETRIC	2	
SILICA - SiO2					MG/L							
11	6.7000	14.8000	11.6000	10.8364	3.3661	0.3106	0.0	8.0311	13.6416	NORMAL		
SILVER					MG/L							
9	** 0.0100	0.3000	** 0.0100	NA	NA	NA	88.9	** 0.0100	0.3000	NONPARAMETRIC	2	
SODIUM					MG/L							
12	9.0000	131.0000	+ 13.0500	24.2174	2.8671	NA	0.0	10.5976	55.3409	LOGNORMAL	7,8	
SPECIFIC CONDUCTANCE					UMHO/CM							
10	300.0000	1420.0000	+ 525.5000	722.8000	418.4564	0.5789	0.0	349.5041	1096.0959	NORMAL		
STRONTIUM					MG/L							
9	0.8900	1.2900	0.9100	1.0133	0.1686	0.1664	0.0	0.8506	1.1761	NORMAL		
SULFATE					MG/L							
12	11.0000	432.0000	+ 15.9000	44.8531	4.5205	NA	0.0	13.7316	146.5086	LOGNORMAL	7,8	

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

84

95 G.A.
6/15/93

TABLE 8. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/12/92
REPORT DATE: 05/05/93

PARAMETER NAME					UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN									
SULFIDE				MG/L									
10	** 0.1000	20.9000	+ 0.1500	NA		NA	NA	40.0	** 0.1000	16.6000	NONPARAMETRIC	2	
TEMPERATURE				C - DEGREE									
12	10.5000	16.8000	+ 13.6500	13.8250		1.6243	0.1175	0.0	12.5505	15.0995	NORMAL		
THALLIUM				MG/L									
9	** 0.0050	0.0050	0.0050	NA		NA	NA	100.0	** 0.0050	0.0050	NONPARAMETRIC	2	
THORIUM-230				PCI/L									
3	** 1.0000	1.2000	** 1.0000	NA		NA	NA	0.0	NA	NA	UNKNOWN	1	
TIN				MG/L									
9	** 0.0050	0.0250	** 0.0050	NA		NA	NA	100.0	** 0.0050	0.0250	NONPARAMETRIC	2	
TOTAL DISSOLVED SOLIDS				MG/L									
12	229.0000	1160.0000	+ 322.5000	485.7500		289.8555	0.5967	0.0	258.3239	713.1761	NORMAL		
TOTAL KJELDAHL NITROGEN				MG/L									
7	** 1.0000	3.0000	** 1.0000	NA		NA	NA	85.7	** 1.0000	3.0000	NONPARAMETRIC	2	
TOTAL ORGANIC CARBON				MG/L									
9	** 1.0000	162.0000	2.0000	NA		NA	NA	22.2	** 1.0000	162.0000	NONPARAMETRIC	2	
URANIUM				MG/L									
12	0.0010	0.0310	+ 0.0037	0.0055		2.8492	NA	0.0	0.0024	0.0124	LOGNORMAL	7,8	

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

96 6/15/93
JL

TABLE 8. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/12/92
REPORT DATE: 05/05/93

PARAMETER NAME				UNITS							
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE
VANADIUM				MG/L							
11	** 0.0100	0.4400	** 0.0100	NA	NA	NA	90.9	** 0.0100	** 0.0100	NONPARAMETRIC	2
ZINC				MG/L							
10	** 0.0050	0.0130	** 0.0050	NA	NA	NA	80.0	** 0.0050	0.0070	NONPARAMETRIC	2

** The reported value is the minimum detection limit of the data set

• The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

INPUT DATA FILENAME: M:\DART\SRK01\GWQ10032.DAT

96

97 J.A.
6/15/93

TABLE 9. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/18/86 TO 10/07/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	0687	07/18/86	0001	NA	U	MG/L CaCO3		418.		-	-
	0687	04/08/87	0001	NA	U			436.		-	-
	0687	10/15/87	0001	NA	U			407.		-	-
	0687	02/19/88	0001	NA	U			445.		-	-
	0687	12/15/90	0001	NA	U			410.	J	-	-
	0687	04/03/91	0001	NA	U			404.		-	-
	0687	08/27/91	0001	NA	U			415		-	-
	0687	12/05/91	0001	NA	U			398		-	-
	0687	10/07/92	0001	NA	U			394		-	-
ALUMINUM	0687	07/18/86	0001	NA	U	MG/L		0.3		0.1	-
	0687	04/08/87	0001	NA	U			0.1		0.1	-
	0687	10/15/87	0001	NA	U		<	0.1		0.1	-
	0687	02/19/88	0001	NA	U			0.06	c	0.06	-
	0687	12/15/90	0001	NA	U		<	0.1	J	0.1	-
	0687	04/03/91	0001	NA	U		<	0.05		0.05	-
	0687	08/27/91	0001	NA	U		<	0.05		0.05	-
	0687	12/10/91	0001	NA	U		<	0.05		0.05	-
	0687	10/07/92	0001	NA	U		<	0.05		0.05	-
AMMONIUM	0687	07/18/86	0001	NA	U	MG/L	<	0.1		0.1	-
	0687	04/08/87	0001	NA	U		<	0.1		0.1	-
	0687	10/15/87	0001	NA	U			0.3		0.1	-
	0687	02/19/88	0001	NA	U		<	0.1		0.1	-
	0687	12/15/90	0001	NA	U		<	0.1	J	0.1	-
	0687	04/03/91	0001	NA	U			0.4		0.1	-
	0687	08/27/91	0001	NA	U			0.5		0.1	-
	0687	12/10/91	0001	NA	U			0.4		0.1	-
	0687	10/07/92	0001	NA	U			0.6		0.1	-
ANTIMONY	0687	07/18/86	0001	NA	U	MG/L	<	0.003		0.003	-
	0687	04/08/87	0001	NA	U		<	0.003		0.003	-
	0687	12/15/90	0001	NA	U		<	0.003	J	0.003	-
	0687	04/03/91	0001	NA	U		<	0.003		0.003	-
	0687	08/27/91	0001	NA	U		<	0.003		0.003	-
	0687	12/10/91	0001	NA	U		<	0.003		0.003	-
	0687	10/07/92	0001	NA	U		<	0.003		0.003	-
ARSENIC	0687	07/18/86	0001	NA	U	MG/L		0.01		0.01	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE
C - CHANGED DETECTION LIMIT

87

98 J.D.
6/15/93

TABLE 9. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/18/86 TO 10/07/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ARSENIC	0687	04/08/87	0001	NA	U	MG/L		0.017		0.01	-
	0687	10/15/87	0001	NA	U			0.02		0.01	-
	0687	12/15/90	0001	NA	U			0.022	J	0.01	-
	0687	04/03/91	0001	NA	U			0.02		0.01	-
	0687	08/27/91	0001	NA	U			0.018		0.01	-
	0687	12/10/91	0001	NA	U		<	0.05	I	0.05	-
	0687	10/07/92	0001	NA	U			0.019		0.005	-
BARIUM	0687	07/18/86	0001	NA	U	MG/L		0.2		0.1	-
	0687	04/08/87	0001	NA	U			0.1		0.1	-
	0687	10/15/87	0001	NA	U		<	0.1		0.1	-
	0687	12/15/90	0001	NA	U		<	0.1	J	0.1	-
	0687	04/03/91	0001	NA	U			0.04		0.01	-
	0687	08/27/91	0001	NA	U			0.04		0.01	-
	0687	12/10/91	0001	NA	U			0.04		0.01	-
BERYLLIUM	0687	12/15/90	0001	NA	U	MG/L	<	0.01	J	0.01	-
	0687	04/03/91	0001	NA	U		<	0.005		0.005	-
	0687	08/27/91	0001	NA	U		<	0.005		0.005	-
	0687	12/10/91	0001	NA	U		<	0.005		0.005	-
BORON	0687	07/18/86	0001	NA	U	MG/L	<	0.1		0.1	-
	0687	10/15/87	0001	NA	U			1.6		0.1	-
	0687	12/15/90	0001	NA	U			1.6	J	0.1	-
	0687	04/03/91	0001	NA	U			1.56		0.05	-
	0687	08/27/91	0001	NA	U			1.63		0.05	-
	0687	12/10/91	0001	NA	U			1.62		0.05	-
BROMIDE	0687	12/15/90	0001	NA	U	MG/L	<	0.1	Jc	0.1	-
	0687	04/03/91	0001	NA	U		<	0.1		0.1	-
	0687	08/27/91	0001	NA	U		<	0.1		0.1	-
	0687	12/10/91	0001	NA	U			0.2		0.1	-
	0687	10/07/92	0001	NA	U		<	0.1		0.1	-
CADMIUM	0687	07/18/86	0001	NA	U	MG/L	<	0.001		0.001	-
	0687	04/08/87	0001	NA	U		<	0.001		0.001	-
	0687	10/15/87	0001	NA	U		<	0.001		0.001	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
J - ESTIMATED VALUE
c - CHANGED DETECTION LIMIT

88

99 J.A.
6/15/93

TABLE 9. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/18/86 TO 10/07/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CADMIUM	0687	12/15/90	0001	NA	U	MG/L	< 0.001	J	0.001	-
	0687	04/03/91	0001	NA	U		< 0.0005		0.0005	-
	0687	08/27/91	0001	NA	U		< 0.001		0.001	-
	0687	12/10/91	0001	NA	U		< 0.001		0.001	-
	0687	10/07/92	0001	NA	U		< 0.001		0.001	-
CALCIUM	0687	07/18/86	0001	NA	U	MG/L	28.1		0.01	-
	0687	04/08/87	0001	NA	U		28.3		0.01	-
	0687	10/15/87	0001	NA	U		26.		0.01	-
	0687	02/19/88	0001	NA	U		24.3		0.01	-
	0687	12/15/90	0001	NA	U		24.3	J	0.01	-
	0687	04/03/91	0001	NA	U		24.3		0.5	-
	0687	08/27/91	0001	NA	U		24.5		0.5	-
	0687	12/10/91	0001	NA	U		23.6		0.5	-
	0687	10/07/92	0001	NA	U		24.5		0.5	-
CHLORIDE	0687	07/18/86	0001	NA	U	MG/L	45.		1.	-
	0687	04/08/87	0001	NA	U		9.4		1.	-
	0687	10/15/87	0001	NA	U		15.4		1.	-
	0687	02/19/88	0001	NA	U		7.4		1.	-
	0687	12/15/90	0001	NA	U		8.	J	1.	-
	0687	04/03/91	0001	NA	U		9.3		0.5	-
	0687	08/27/91	0001	NA	U		9.6		0.5	-
	0687	12/10/91	0001	NA	U		9.4		0.5	-
	0687	10/07/92	0001	NA	U		14.		1.	-
CHROMIUM	0687	07/18/86	0001	NA	U	MG/L	< 0.05		0.01	-
	0687	04/08/87	0001	NA	U		< 0.01		0.01	-
	0687	10/15/87	0001	NA	U		< 0.01		0.01	-
	0687	12/15/90	0001	NA	U		< 0.01	J	0.01	-
	0687	04/03/91	0001	NA	U		< 0.01		0.01	-
	0687	08/27/91	0001	NA	U		< 0.01		0.01	-
	0687	12/10/91	0001	NA	U		< 0.01		0.01	-
	0687	10/07/92	0001	NA	U		< 0.01		0.01	-
COBALT	0687	12/15/90	0001	NA	U	MG/L	< 0.05	J	0.05	-
	0687	04/03/91	0001	NA	U		< 0.03		0.03	-
	0687	08/27/91	0001	NA	U		< 0.03		0.03	-
	0687	12/10/91	0001	NA	U		< 0.03		0.03	-
COPPER	0687	07/18/86	0001	NA	U	MG/L	0.03		0.02	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE

68

100 25.2
6/15/93

TABLE 9. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/18/86 TO 10/07/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
COPPER	0687	04/08/87	0001	NA	U	MG/L	<	0.01		0.02	-
	0687	10/15/87	0001	NA	U		<	0.02		0.02	-
	0687	12/15/90	0001	NA	U		<	0.02	J	0.02	-
	0687	04/03/91	0001	NA	U		<	0.01		0.01	-
	0687	08/27/91	0001	NA	U		<	0.01		0.01	-
	0687	12/10/91	0001	NA	U		<	0.01		0.01	-
	0687	10/07/92	0001	NA	U		<	0.01		0.01	-
CYANIDE	0687	12/15/90	0001	NA	U	MG/L	<	0.01	J	0.01	-
	0687	04/03/91	0001	NA	U		<	0.01		0.01	-
	0687	08/27/91	0001	NA	U		<	0.01		0.01	-
	0687	12/10/91	0001	NA	U		<	0.01		0.01	-
DISSOLVED OXYGEN	0687	10/07/92	0001	NA	U	MG/L		0.9		-	-
FIELD FE (2+)	0687	10/07/92	0001	NA	U	MG/L		0.05		-	-
FLUORIDE	0687	07/18/86	0001	NA	U	MG/L		0.7		0.1	-
	0687	04/08/87	0001	NA	U			0.87		0.1	-
	0687	10/15/87	0001	NA	U			0.8		0.1	-
	0687	02/19/88	0001	NA	U			0.85		0.1	-
	0687	12/15/90	0001	NA	U			0.8	J	0.1	-
	0687	04/03/91	0001	NA	U			0.8		0.1	-
	0687	08/27/91	0001	NA	U			0.8		0.1	-
	0687	12/10/91	0001	NA	U			0.5		0.1	-
	0687	10/07/92	0001	NA	U			0.9		0.1	-
GROSS ALPHA	0687	12/15/90	0001	NA	U	PCI/L		3.7	J	1.	5.8
	0687	04/03/91	0001	NA	U			7.7		1.	6.1
	0687	08/27/91	0001	NA	U			874.9		1.	67.8
	0687	12/05/91	0001	NA	U			0.0		1.	10.3
	0687	10/07/92	0001	NA	U			15.5		8.3	7.1
GROSS BETA	0687	12/15/90	0001	NA	U	PCI/L		21.	J	0.5	4.
	0687	04/03/91	0001	NA	U			18.3		0.5	4.0
	0687	08/27/91	0001	NA	U			301.		0.5	21.3
	0687	12/05/91	0001	NA	U			8.4		0.5	6.6
	0687	10/07/92	0001	NA	U			19.6		7.5	5.4
IRON	0687	07/18/86	0001	NA	U	MG/L		0.04		0.03	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE

96

101 J.D.
6/15/93

TABLE 9. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/18/86 TO 10/07/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
IRON	0687	04/08/87	0001	NA	U	MG/L		0.05		0.03	-
	0687	10/15/87	0001	NA	U		<	0.03		0.03	-
	0687	02/19/88	0001	NA	U			0.03		0.03	-
	0687	12/15/90	0001	NA	U		<	0.03	J	0.03	-
	0687	04/03/91	0001	NA	U			0.04		0.03	-
	0687	08/27/91	0001	NA	U			0.04		0.03	-
	0687	12/10/91	0001	NA	U		<	0.03		0.03	-
	0687	10/07/92	0001	NA	U			0.03		0.03	-
LEAD	0687	07/18/86	0001	NA	U	MG/L	<	0.01		0.01	-
	0687	04/08/87	0001	NA	U		<	0.001		0.01	-
	0687	10/15/87	0001	NA	U		<	0.01		0.01	-
	0687	12/15/90	0001	NA	U		<	0.01	J	0.01	-
	0687	04/03/91	0001	NA	U		<	0.005		0.005	-
	0687	08/27/91	0001	NA	U		<	0.005		0.005	-
	0687	12/10/91	0001	NA	U		<	0.005		0.005	-
	0687	10/07/92	0001	NA	U		<	0.02	I	0.02	-
LEAD-210	0687	07/18/86	0001	NA	U	PCI/L		0.4	c	1.3	0.9
	0687	08/27/91	0001	NA	U			0.3		1.5	1.0
	0687	12/05/91	0001	NA	U			0.0		1.5	1.3
MAGNESIUM	0687	07/18/86	0001	NA	U	MG/L		19.3		0.001	-
	0687	04/08/87	0001	NA	U			20.8		0.001	-
	0687	10/15/87	0001	NA	U			21.		0.001	-
	0687	02/19/88	0001	NA	U			19.5		0.001	-
	0687	12/15/90	0001	NA	U			19.1	J	0.001	-
	0687	04/03/91	0001	NA	U			19.5		0.1	-
	0687	08/27/91	0001	NA	U			19.8		0.1	-
	0687	12/10/91	0001	NA	U			20.0		0.1	-
	0687	10/07/92	0001	NA	U			19.2		0.1	-
MANGANESE	0687	07/18/86	0001	NA	U	MG/L		0.08		0.01	-
	0687	04/08/87	0001	NA	U			0.04		0.01	-
	0687	10/15/87	0001	NA	U			0.02		0.01	-
	0687	02/19/88	0001	NA	U			0.03		0.01	-
	0687	12/15/90	0001	NA	U			0.03	J	0.01	-
	0687	04/03/91	0001	NA	U			0.02		0.01	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
J - ESTIMATED VALUE
c - CHANGED DETECTION LIMIT

16

102 J.L
6/15/93

TABLE 9. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/18/86 TO 10/07/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MANGANESE	0687	08/27/91	0001	NA	U	MG/L		0.02		0.01	-
	0687	12/10/91	0001	NA	U			0.02		0.01	-
	0687	10/07/92	0001	NA	U			0.02		0.01	-
MERCURY	0687	07/18/86	0001	NA	U	MG/L	<	0.0002		0.0002	-
	0687	04/08/87	0001	NA	U		<	0.0002		0.0002	-
	0687	10/15/87	0001	NA	U		<	0.0002		0.0002	-
	0687	12/15/90	0001	NA	U		<	0.0002	J	0.0002	-
	0687	04/03/91	0001	NA	U		<	0.0002		0.0002	-
	0687	08/27/91	0001	NA	U		<	0.0002		0.0002	-
	0687	12/10/91	0001	NA	U		<	0.0002		0.0002	-
MOLYBDENUM	0687	07/18/86	0001	NA	U	MG/L		0.16		0.01	-
	0687	04/08/87	0001	NA	U		<	0.1	c	0.1	-
	0687	10/15/87	0001	NA	U		<	0.01		0.01	-
	0687	02/19/88	0001	NA	U			0.02		0.01	-
	0687	12/15/90	0001	NA	U		<	0.01	J	0.01	-
	0687	04/03/91	0001	NA	U		<	0.01		0.01	-
	0687	08/27/91	0001	NA	U		<	0.01		0.01	-
	0687	12/10/91	0001	NA	U		<	0.01		0.01	-
	0687	10/07/92	0001	NA	U			0.01		0.01	-
NET GROSS ALPHA *	0687	12/15/90	0001	NA	U	PCI/L		2.88		-	-
	0687	04/03/91	0001	NA	U			6.33		-	-
	0687	08/27/91	0001	NA	U			-36.11		-	-
	0687	12/05/91	0001	NA	U			-0.69		-	-
	0687	10/07/92	0001	NA	U			13.44		-	-
NICKEL	0687	07/18/86	0001	NA	U	MG/L		0.06		0.04	-
	0687	04/08/87	0001	NA	U			0.02	c	0.02	-
	0687	10/15/87	0001	NA	U		<	0.04		0.04	-
	0687	02/19/88	0001	NA	U		<	0.01		0.04	-
	0687	12/15/90	0001	NA	U		<	0.05	Jc	0.05	-
	0687	04/03/91	0001	NA	U		<	0.04		0.04	-
	0687	08/27/91	0001	NA	U		<	0.04		0.04	-
	0687	12/10/91	0001	NA	U		<	0.04		0.04	-
	0687	10/07/92	0001	NA	U		<	0.04		0.04	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE
c - CHANGED DETECTION LIMIT

92

103 J.A.
6/15/93

TABLE 9. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/18/86 TO 10/07/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NITRATE	0687	07/18/86	0001	NA	U	MG/L	80.0		1.	-
	0687	04/08/87	0001	NA	U		1.4		1.	-
	0687	10/15/87	0001	NA	U		< 1.0		1.	-
	0687	02/19/88	0001	NA	U		< 0.1		1.	-
	0687	12/15/90	0001	NA	U		< 1.	J	1.	-
	0687	04/03/91	0001	NA	U		3.		1.	-
	0687	08/27/91	0001	NA	U		6.9		1.	-
	0687	12/10/91	0001	NA	U		< 1.0		1.	-
	0687	10/07/92	0001	NA	U		6.5		1.0	-
NITRITE AND NITRATE	0687	02/19/88	0001	NA	U	MG/L	< 0.1		1.	-
	0687	12/15/90	0001	NA	U		< 1.	J	1.	-
	0687	04/03/91	0001	NA	U		0.61		0.05	-
	0687	08/27/91	0001	NA	U		1.56		0.05	-
PH	0687	07/18/86	0001	NA	U	SU	7.24		-	-
	0687	04/08/87	0001	NA	U		7.51		-	-
	0687	10/15/87	0001	NA	U		7.18		-	-
	0687	02/19/88	0001	NA	U		7.34		-	-
	0687	12/15/90	0001	NA	U		7.47	J	-	-
	0687	04/03/91	0001	NA	U		7.37		-	-
	0687	08/27/91	0001	NA	U		7.41		-	-
	0687	12/05/91	0001	NA	U		7.64		-	-
	0687	10/07/92	0001	NA	U		7.41		-	-
PHOSPHATE	0687	07/18/86	0001	NA	U	MG/L	< 0.1		0.1	-
	0687	04/08/87	0001	NA	U		< 0.1		0.1	-
	0687	10/15/87	0001	NA	U		< 0.1		0.1	-
	0687	12/15/90	0001	NA	U		< 0.1	J	0.1	-
	0687	04/03/91	0001	NA	U		< 0.1		0.1	-
	0687	08/27/91	0001	NA	U		0.1		0.1	-
	0687	12/10/91	0001	NA	U		0.2		0.1	-
	0687	10/07/92	0001	NA	U		0.1	J	0.1	-
POLONIUM-210	0687	07/18/86	0001	NA	U	PCI/L	< 0.5	b	1.	0.5
	0687	08/27/91	0001	NA	U		0.1		1.	0.3
	0687	12/05/91	0001	NA	U		0.0		1.	0.2
POTASSIUM	0687	07/18/86	0001	NA	U	MG/L	30.1		0.01	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE
b - CHANGED PARAMETER VALUE

93

104 22.0.
6/15/93

TABLE 9. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/18/86 TO 10/07/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
POTASSIUM	0687	04/08/87	0001	NA	U	MG/L		24.4		0.01	-
	0687	10/15/87	0001	NA	U			25.		0.01	-
	0687	02/19/88	0001	NA	U			26.1		0.01	-
	0687	12/15/90	0001	NA	U			25.5	J	0.01	-
	0687	04/03/91	0001	NA	U			23.		5.	-
	0687	08/27/91	0001	NA	U			23.		5.	-
	0687	12/10/91	0001	NA	U			24.		5.	-
	0687	10/07/92	0001	NA	U			23.		5.	-
RADIUM-226	0687	07/18/86	0001	NA	U	PCI/L		0.6	c	0.9	0.3
	0687	10/15/87	0001	NA	U			0.4	c	0.6	0.2
	0687	02/19/88	0001	NA	U			0.3	c	0.5	0.2
	0687	12/15/90	0001	NA	U			0.7	J	1.	0.3
	0687	04/03/91	0001	NA	U			0.5		1.	0.2
	0687	08/27/91	0001	NA	U			0.9		1.	0.3
	0687	12/05/91	0001	NA	U			0.3		1.	0.2
	0687	10/07/92	0001	NA	U			0.0		2.8	1.5
RADIUM-226 + RADIUM-228	0687	07/18/86	0001	NA	U	PCI/L		1.10		-	-
	0687	10/15/87	0001	NA	U			0.90		-	-
	0687	12/15/90	0001	NA	U			2.00		-	-
	0687	04/03/91	0001	NA	U			5.20		-	-
	0687	08/27/91	0001	NA	U			1.30		-	-
	0687	12/05/91	0001	NA	U			0.30		-	-
	0687	10/07/92	0001	NA	U			0.00		-	-
RADIUM-228	0687	07/18/86	0001	NA	U	PCI/L	<	1.3	b	1.	1.3
	0687	10/15/87	0001	NA	U			0.5		1.	1.3
	0687	12/15/90	0001	NA	U			1.3	J	1.	0.9
	0687	04/03/91	0001	NA	U			4.7		1.	1.1
	0687	08/27/91	0001	NA	U			0.4		1.	1.9
	0687	12/05/91	0001	NA	U			0.0		1.	0.7
	0687	10/07/92	0001	NA	U			0.0		2.5	1.5
	0687	10/07/92	0001	NA	U			0.0		2.5	1.5
REDOX POTENTIAL	0687	12/15/90	0001	NA	U	mVOLTS		336.4	J	-	-
	0687	10/07/92	0001	NA	U			393.4		-	-
SELENIUM	0687	07/18/86	0001	NA	U	MG/L	<	0.005		0.005	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE
b - CHANGED PARAMETER VALUE
c - CHANGED DETECTION LIMIT

176

105 M.D.
6/15/93

TABLE 9. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/18/86 TO 10/07/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SELENIUM	0687	04/08/87	0001	NA	U	MG/L	<	0.002		0.005	-
	0687	10/15/87	0001	NA	U		<	0.005		0.005	-
	0687	12/15/90	0001	NA	U		<	0.005	J	0.005	-
	0687	04/03/91	0001	NA	U		<	0.005		0.005	-
	0687	08/27/91	0001	NA	U		<	0.005		0.005	-
	0687	12/10/91	0001	NA	U		<	0.005		0.005	-
	0687	10/07/92	0001	NA	U		<	0.005		0.005	-
SILICA - SiO2	0687	07/18/86	0001	NA	U	MG/L		4.		2.	-
	0687	04/08/87	0001	NA	U			10.6		2.	-
	0687	10/15/87	0001	NA	U			8.6		2.	-
	0687	02/19/88	0001	NA	U			7.5		2.	-
	0687	12/15/90	0001	NA	U			9.	J	2.	-
	0687	04/03/91	0001	NA	U			7.4		0.1	-
	0687	08/27/91	0001	NA	U			8.3		0.1	-
	0687	12/10/91	0001	NA	U			9.0		0.1	-
	0687	10/07/92	0001	NA	U			8.9		0.1	-
SILVER	0687	07/18/86	0001	NA	U	MG/L	<	0.01		0.01	-
	0687	04/08/87	0001	NA	U		<	0.01		0.01	-
	0687	10/15/87	0001	NA	U		<	0.01		0.01	-
	0687	12/15/90	0001	NA	U		<	0.01	J	0.01	-
	0687	04/03/91	0001	NA	U		<	0.01		0.01	-
	0687	08/27/91	0001	NA	U		<	0.01		0.01	-
	0687	12/10/91	0001	NA	U		<	0.01		0.01	-
SODIUM	0687	07/18/86	0001	NA	U	MG/L		177.		0.002	-
	0687	04/08/87	0001	NA	U			158.		0.002	-
	0687	10/15/87	0001	NA	U			148.		0.002	-
	0687	02/19/88	0001	NA	U			145.		0.002	-
	0687	12/15/90	0001	NA	U			137.	J	0.002	-
	0687	04/03/91	0001	NA	U			136.		5.	-
	0687	08/27/91	0001	NA	U			140.		5.	-
	0687	12/10/91	0001	NA	U			136.		5.	-
	0687	10/07/92	0001	NA	U			141.		5.	-
SPECIFIC CONDUCTANCE	0687	07/18/86	0001	NA	U	UMHO/CM		500.		-	-
	0687	04/08/87	0001	NA	U			550.		-	-
	0687	10/15/87	0001	NA	U			450.		-	-
	0687	02/19/88	0001	NA	U			650.		-	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE

95

106 5A.
6/15/93

TABLE 9. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/18/86 TO 10/07/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SPECIFIC CONDUCTANCE	0687	12/15/90	0001	NA	U	UMHO/CM		887.	J	-	-
	0687	04/03/91	0001	NA	U			877.		-	-
	0687	08/27/91	0001	NA	U			883		-	-
	0687	12/05/91	0001	NA	U			886		-	-
	0687	10/07/92	0001	NA	U			685		-	-
STRONTIUM	0687	12/15/90	0001	NA	U	MG/L		1.1	J	0.1	-
	0687	04/03/91	0001	NA	U			1.04		0.01	-
	0687	08/27/91	0001	NA	U			1.17		0.01	-
	0687	12/10/91	0001	NA	U			1.10		0.01	-
	0687	10/07/92	0001	NA	U			1.07		0.01	-
SULFATE	0687	07/18/86	0001	NA	U	MG/L		63.8		0.1	-
	0687	04/08/87	0001	NA	U			32.9		0.1	-
	0687	10/15/87	0001	NA	U			57.		0.1	-
	0687	02/19/88	0001	NA	U			59.		0.1	-
	0687	12/15/90	0001	NA	U			42.8	J	0.1	-
	0687	04/03/91	0001	NA	U			58.5		0.1	-
	0687	08/27/91	0001	NA	U			62.		10.	-
	0687	12/10/91	0001	NA	U			59.		10.	-
	0687	10/07/92	0001	NA	U			56.		5.	-
SULFIDE	0687	07/18/86	0001	NA	U	MG/L	<	0.1		0.1	-
	0687	12/15/90	0001	NA	U		<	0.1	J	0.1	-
	0687	04/03/91	0001	NA	U			4.7		0.1	-
	0687	08/27/91	0001	NA	U			0.6		0.1	-
	0687	12/10/91	0001	NA	U			0.3		0.1	-
	0687	10/07/92	0001	NA	U			0.4		0.1	-
TEMPERATURE	0687	07/18/86	0001	NA	U	C - DEGREE		19.		-	-
	0687	04/08/87	0001	NA	U			14.0		-	-
	0687	10/15/87	0001	NA	U			15.0		-	-
	0687	02/19/88	0001	NA	U			13.0		-	-
	0687	12/15/90	0001	NA	U			12.4	J	-	-
	0687	04/03/91	0001	NA	U			13.7		-	-
	0687	08/27/91	0001	NA	U			14.4		-	-
	0687	12/05/91	0001	NA	U			12.6		-	-
	0687	10/07/92	0001	NA	U			13.5		-	-
THALLIUM	0687	12/15/90	0001	NA	U	MG/L	<	0.01	J	0.01	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE

96

107 J.D.
6/15/93

TABLE 9. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/18/86 TO 10/07/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
THALLIUM	0687	04/03/91	0001	NA	U	MG/L	<	0.01		0.01	-
	0687	08/27/91	0001	NA	U		<	0.01		0.01	-
	0687	12/10/91	0001	NA	U		<	0.01		0.01	-
	0687	10/07/92	0001	NA	U		<	0.005		0.005	-
THORIUM-230	0687	07/18/86	0001	NA	U	PCI/L	<	0.1	d	0.1	0.1
	0687	08/27/91	0001	NA	U			0.0		1.	0.3
	0687	12/05/91	0001	NA	U			0.4		1.	0.8
TIN	0687	07/18/86	0001	NA	U	MG/L	<	0.005		0.005	-
	0687	12/15/90	0001	NA	U		<	0.005	J	0.005	-
	0687	04/03/91	0001	NA	U		<	0.005		0.005	-
	0687	08/27/91	0001	NA	U		<	0.005		0.005	-
	0687	12/10/91	0001	NA	U		<	0.005		0.005	-
	0687	10/07/92	0001	NA	U		<	0.005		0.005	-
TOTAL DISSOLVED SOLIDS	0687	07/18/86	0001	NA	U	MG/L		886.		10.	-
	0687	04/08/87	0001	NA	U			541.		10.	-
	0687	10/15/87	0001	NA	U			525.		10.	-
	0687	02/19/88	0001	NA	U			535.		10.	-
	0687	12/15/90	0001	NA	U			492.	J	10.	-
	0687	04/03/91	0001	NA	U			551.		10.	-
	0687	08/27/91	0001	NA	U			534.		10.	-
	0687	12/10/91	0001	NA	U			1530.		10.	-
	0687	10/07/92	0001	NA	U			525.		10.	-
TOTAL KJELDAHL NITROGEN	0687	12/15/90	0001	NA	U	MG/L	<	1.	J	1.	-
	0687	04/03/91	0001	NA	U		<	1.		1.	-
	0687	08/27/91	0001	NA	U			1.		1.	-
	0687	12/10/91	0001	NA	U		<	1.		1.	-
TOTAL ORGANIC CARBON	0687	12/15/90	0001	NA	U	MG/L		100.	J	1.	-
	0687	04/03/91	0001	NA	U			11.		1.	-
	0687	08/27/91	0001	NA	U			2.		1.	-
	0687	12/10/91	0001	NA	U		<	1.		1.	-
	0687	10/07/92	0001	NA	U			2.		1.	-
URANIUM	0687	07/18/86	0001	NA	U	MG/L		0.003		0.003	-
	0687	04/08/87	0001	NA	U			0.0022	c	0.0022	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE
c - CHANGED DETECTION LIMIT
d - CHANGED DETECTION LIMIT AND PARAMETER VALUE

49

108 JJ.
6/15/93

TABLE 9. BACKGROUND GROUNDWATER QUALITY DATA BY PARAMETER
IN THE NAVAJO SANDSTONE, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/18/86 TO 10/07/92
REPORT DATE: 05/05/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
URANIUM	0687	10/15/87	0001	NA	U	MG/L	0.005		0.003	-
	0687	02/19/88	0001	NA	U		0.0021	c	0.0021	-
	0687	12/15/90	0001	NA	U		0.0012	J	0.0003	-
	0687	04/03/91	0001	NA	U		0.002		0.001	-
	0687	08/27/91	0001	NA	U		1.328		0.001	-
	0687	12/05/91	0001	NA	U		0.001		0.001	-
	0687	10/07/92	0001	NA	U		0.003		0.001	-
VANADIUM	0687	07/18/86	0001	NA	U	MG/L	0.43		0.01	-
	0687	04/08/87	0001	NA	U		< 0.2	c	0.2	-
	0687	10/15/87	0001	NA	U		< 0.01		0.01	-
	0687	12/15/90	0001	NA	U		< 0.01	J	0.01	-
	0687	04/03/91	0001	NA	U		< 0.01		0.01	-
	0687	08/27/91	0001	NA	U		< 0.01		0.01	-
	0687	12/10/91	0001	NA	U		< 0.01		0.01	-
ZINC	0687	10/07/92	0001	NA	U		< 0.01		0.01	-
	0687	07/18/86	0001	NA	U	MG/L	0.021		0.005	-
	0687	04/08/87	0001	NA	U		0.242		0.005	-
	0687	10/15/87	0001	NA	U		< 0.005		0.005	-
	0687	12/15/90	0001	NA	U		0.012	J	0.005	-
	0687	04/03/91	0001	NA	U		< 0.005		0.005	-
	0687	08/27/91	0001	NA	U		< 0.005		0.005	-
	0687	12/10/91	0001	NA	U		< 0.005		0.005	-
	0687	10/07/92	0001	NA	U		< 0.005		0.005	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE
c - CHANGED DETECTION LIMIT

DATA FILE NAME: M:\DART\SRK01\GWQ10033.DAT

109 22.2.
6/15/93

TABLE 10. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE NAVAJO SANDSTONE, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/18/86 TO 10/07/92
REPORT DATE: 05/05/93

PARAMETER NAME				UNITS					STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION	FOOT
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS		MINIMUM	MAXIMUM *	TYPE	NOTE
ALKALINITY				MG/L CaCO3								
9	394.0000	445.0000	410.0000	414.1111	16.8926	0.0408	0.0		397.8041	430.4181	NORMAL	
ALUMINUM				MG/L								
9	** 0.0500	0.3000	0.0500	NA	NA	NA	66.7	**	0.0500	0.3000	NONPARAMETRIC	2
AMMONIUM				MG/L								
9	** 0.1000	0.6000	0.3000	NA	NA	NA	44.4	**	0.1000	0.6000	NONPARAMETRIC	2
ANTIMONY				MG/L								
7	** 0.0030	** 0.0030	** 0.0030	NA	NA	NA	100.0	**	0.0030	** 0.0030	NONPARAMETRIC	2
ARSENIC				MG/L								
8	0.0100	0.0250	+ 0.0195	0.0189	0.0044	0.2308	12.5		0.0143	0.0235	NORMAL	
BARIUM				MG/L								
8	0.0400	0.2000	+ 0.0450	NA	NA	NA	25.0		0.0400	0.2000	NONPARAMETRIC	2
BERYLLIUM				MG/L								
4	** 0.0050	0.0050	** 0.0050	NA	NA	NA	100.0	**	0.0050	0.0050	NONPARAMETRIC	2,4
BORON				MG/L								
6	0.0500	1.6300	+ 1.6000	NA	NA	NA	16.7		0.0500	1.6300	NONPARAMETRIC	2,6
BROMIDE				MG/L								
5	** 0.1000	0.2000	** 0.1000	NA	NA	NA	80.0	**	0.1000	0.2000	NONPARAMETRIC	2,5

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.

5) The stat. range is the 93.8% confidence interval due to a sample size of 5. The maximum is the 96.9% one sided confidence int.

6) The stat. range is the 96.9% confidence interval due to a sample size of 6. The maximum is the 98.5% one sided confidence int.

66

110 2.2.
6/15/93

TABLE 10. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE NAVAJO SANDSTONE, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/18/86 TO 10/07/92
REPORT DATE: 05/05/93

PARAMETER NAME					UNITS						STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN													
CADMIUM					MG/L												
8	** 0.0005	0.0005	+ 0.0005	NA		NA	NA	100.0	** 0.0005	0.0005	NONPARAMETRIC	2					
CALCIUM					MG/L												
9	23.6000	28.3000	24.5000	25.3222		1.7498	0.0691	0.0	23.6330	27.0114	NORMAL						
CHLORIDE					MG/L												
9	7.4000	45.0000	9.4000	14.1667		11.8640	0.8375	0.0	2.7139	25.6194	NORMAL						
CHROMIUM					MG/L												
8	** 0.0100	0.0500	** 0.0100	NA		NA	NA	87.5	** 0.0100	0.0500	NONPARAMETRIC	2					
COBALT					MG/L												
4	** 0.0300	** 0.0300	** 0.0300	NA		NA	NA	100.0	** 0.0300	** 0.0300	NONPARAMETRIC	2,4					
COPPER					MG/L												
8	** 0.0100	0.0300	** 0.0100	NA		NA	NA	87.5	** 0.0100	0.0300	NONPARAMETRIC	2					
CYANIDE					MG/L												
4	** 0.0100	** 0.0100	** 0.0100	NA		NA	NA	100.0	** 0.0100	** 0.0100	NONPARAMETRIC	2,4					
DISSOLVED OXYGEN					MG/L												
1	0.9000	0.9000	0.9000	NA		NA	NA	0.0	NA	NA	UNKNOWN	1					
FIELD FE (2+)					MG/L												
1	0.0500	0.0500	0.0500	NA		NA	NA	0.0	NA	NA	UNKNOWN	1					
FLUORIDE					MG/L												
9	0.5000	0.9000	0.8000	0.7800		0.1193	0.1529	0.0	0.6649	0.8951	NORMAL						

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.

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TABLE 10. BACKGROUND GROUNDWATER QUALITY SATISTICS BY PARAMETER
IN THE NAVAJO SANDSTONE, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/18/86 TO 10/07/92
REPORT DATE: 05/05/93

PARAMETER NAME					UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN									
GROSS ALPHA				PCI/L									
5	** 1.0000	874.9000	7.7000	NA		NA	NA	0.0	** 1.0000	874.9000	NONPARAMETRIC	9,	
GROSS BETA				PCI/L									
5	8.4000	301.0000	19.6000	28.5729		3.9249	NA	0.0	2.8898	282.5154	LOGNORMAL	7,	
IRON				MG/L									
9	** 0.0300	0.0500	0.0300	NA		NA	NA	33.3	** 0.0300	0.0500	NONPARAMETRIC	2	
LEAD				MG/L									
8	** 0.0050	0.0100	+ 0.0050	NA		NA	NA	100.0	** 0.0050	0.0100	NONPARAMETRIC	2	
LEAD-210				PCI/L									
3	** 1.3000	** 1.3000	** 1.3000	NA		NA	NA	0.0	NA	NA	UNKNOWN	1	
MAGNESIUM				MG/L									
9	19.1000	21.0000	19.5000	19.8000		0.6856	0.0346	0.0	19.1382	20.4618	NORMAL		
MANGANESE				MG/L									
9	0.0200	0.0800	0.0200	0.0311		0.0196	0.6316	0.0	0.0121	0.0501	NORMAL		
MERCURY				MG/L									
7	** 0.0002	** 0.0002	** 0.0002	NA		NA	NA	100.0	** 0.0002	** 0.0002	NONPARAMETRIC	2	
MOLYBDENUM				MG/L									
9	** 0.0100	0.1600	** 0.0100	NA		NA	NA	66.7	** 0.0100	0.1600	NONPARAMETRIC	2	

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

5) The stat. range is the 93.8% confidence interval due to a sample size of 5. The maximum is the 96.9% one sided confidence int.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

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TABLE 10. BACKGROUND GROUNDWATER QUALITY SATISTICS BY PARAMETER
IN THE NAVAJO SANDSTONE, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/18/86 TO 10/07/92
REPORT DATE: 05/05/93

PARAMETER NAME				UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN					MINIMUM	MAXIMUM *		
NET GROSS ALPHA ***				PCI/L								
5	-36.1100	13.4400	2.8800	NA	NA	NA	0.0		-36.1100	13.4400	NONPARAMETRIC	9,5
NICKEL				MG/L								
9	0.0200	0.0600	0.0200	NA	NA	NA	77.8		0.0200	0.0600	NONPARAMETRIC	2
NITRATE				MG/L								
9	** 1.0000	80.0000	1.4000	NA	NA	NA	44.4	**	1.0000	80.0000	NONPARAMETRIC	2
NITRITE AND NITRATE				MG/L								
4	0.5000	1.5600	+ 0.5550	NA	NA	NA	50.0		0.5000	1.5600	NONPARAMETRIC	2,4
PH				SU								
9	7.1800	7.6400	7.4100	NA	NA	NA	0.0		NA	NA	UNKNOWN	
PHOSPHATE				MG/L								
8	** 0.1000	0.2000	** 0.1000	NA	NA	NA	62.5	**	0.1000	0.2000	NONPARAMETRIC	2
POLONIUM-210				PCI/L								
3	** 1.0000	** 1.0000	** 1.0000	NA	NA	NA	33.3		NA	NA	UNKNOWN	1
POTASSIUM				MG/L								
9	23.0000	30.1000	24.4000	24.9000	2.2567	0.0906	0.0		22.7216	27.0784	NORMAL	
RADIUM-226				PCI/L								
8	** 0.5000	0.9000	** 0.5000	NA	NA	NA	0.0	**	0.5000	0.9000	NONPARAMETRIC	9

*** NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.

5) The stat. range is the 93.8% confidence interval due to a sample size of 5. The maximum is the 96.9% one sided confidence int.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

102

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TABLE 10. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE NAVAJO SANDSTONE, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/18/86 TO 10/07/92
REPORT DATE: 05/05/93

PARAMETER NAME					UNITS								
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE	
									MINIMUM	MAXIMUM *			
RADIUM-226 + RADIUM-228					PCI/L								
7	0.0000	5.2000	1.1000	NA		NA	NA	0.0	0.0000	5.2000	NONPARAMETRIC	9	
RADIUM-228					PCI/L								
7	** 1.0000	4.7000	** 1.0000	NA		NA	NA	14.3	** 1.0000	4.7000	NONPARAMETRIC	9	
REDOX POTENTIAL					mVOLTS								
2	336.4000	393.4000	+ 364.9000	NA		NA	NA	0.0	NA	NA	UNKNOWN	1	
SELENIUM					MG/L								
8	** 0.0050	** 0.0050	** 0.0050	NA		NA	NA	100.0	** 0.0050	** 0.0050	NONPARAMETRIC	2	
SILICA - SiO2					MG/L								
9	4.0000	10.6000	8.6000	8.1444		1.8180	0.2232	0.0	6.3894	9.8995	NORMAL		
SILVER					MG/L								
7	** 0.0100	** 0.0100	** 0.0100	NA		NA	NA	100.0	** 0.0100	** 0.0100	NONPARAMETRIC	2	
SODIUM					MG/L								
9	136.0000	177.0000	141.0000	146.4444		13.4639	0.0919	0.0	133.4473	159.4416	NORMAL		
SPECIFIC CONDUCTANCE					UMHO/CM								
9	450.0000	887.0000	685.0000	707.5556		180.8294	0.2556	0.0	532.9949	882.1162	NORMAL		
STRONTIUM					MG/L								
5	1.0400	1.1700	1.1000	1.0960		0.0483	0.0440	0.0	1.0151	1.1769	NORMAL		
SULFATE					MG/L								
9	32.9000	63.8000	58.5000	54.5556		10.0695	0.1846	0.0	44.8351	64.2760	NORMAL		

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

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TABLE 10. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE NAVAJO SANDSTONE, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/18/86 TO 10/07/92
REPORT DATE: 05/05/93

PARAMETER NAME					UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN									
SULFIDE				MG/L									
6	** 0.1000	4.7000	+ 0.3500	NA		NA	NA	33.3	** 0.1000	4.7000	NONPARAMETRIC	2,6	
TEMPERATURE				C - DEGREE									
9	12.4000	19.0000	13.7000	14.1778		1.9917	0.1405	0.0	12.2551	16.1005	NORMAL		
THALLIUM				MG/L									
5	** 0.0050	0.0050	0.0050	NA		NA	NA	100.0	** 0.0050	0.0050	NONPARAMETRIC	2,5	
THORIUM-230				PCI/L									
3	** 0.1000	0.4000	** 0.1000	NA		NA	NA	33.3	NA	NA	UNKNOWN	1	
TIN				MG/L									
6	** 0.0050	** 0.0050	** 0.0050	NA		NA	NA	100.0	** 0.0050	** 0.0050	NONPARAMETRIC	2,6	
TOTAL DISSOLVED SOLIDS				MG/L									
9	492.0000	1530.0000	535.0000	679.8889		340.3368	0.5006	0.0	351.3505	1008.4273	NORMAL		
TOTAL KJELDAHL NITROGEN				MG/L									
4	** 1.0000	1.0000	** 1.0000	NA		NA	NA	75.0	** 1.0000	1.0000	NONPARAMETRIC	2,4	
TOTAL ORGANIC CARBON				MG/L									
5	** 1.0000	100.0000	2.0000	NA		NA	NA	20.0	** 1.0000	100.0000	NONPARAMETRIC	2,5	
URANIUM				MG/L									
9	0.0010	1.3280	0.0022	0.0044		8.9543	NA	0.0	0.0005	0.0368	LOGNORMAL	7,8	

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.

5) The stat. range is the 93.8% confidence interval due to a sample size of 5. The maximum is the 96.9% one sided confidence int.

6) The stat. range is the 96.9% confidence interval due to a sample size of 6. The maximum is the 98.5% one sided confidence int.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

104

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TABLE 10. BACKGROUND GROUNDWATER QUALITY STATISTICS BY PARAMETER
IN THE NAVAJO SANDSTONE, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
07/18/86 TO 10/07/92
REPORT DATE: 05/05/93

PARAMETER NAME					UNITS									
# OF SAMP	MINIMUM		MAXIMUM		MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE	
VANADIUM					MG/L									
8	**	0.0100		0.4300	**	0.0100	NA	NA	NA	87.5	**	0.0100 0.4300	NONPARAMETRIC	2
ZINC					MG/L									
8	**	0.0050		0.2420	**	0.0050	NA	NA	NA	62.5	**	0.0050 0.2420	NONPARAMETRIC	2

** The reported value is the minimum detection limit of the data set

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

INPUT DATA FILENAME: M:\DART\SRK01\GWQ10033.DAT

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Table 11 Maximum concentration of regulated constituents
for groundwater protection^a

Constituents with MCLs ^b	mg/l	Constituents with MCLs ^b	mg/l
Arsenic (As)	0.05	Carbon tetrachloride	0.005
Barium (Ba)	1.0	p- Dichlorobenzene (benzene, 1,4 di-)	0.075
Cadmium (Cd)	0.01	1,1- Dichloroethylene (ethene, 1,1 di-)	0.007
Chromium (Cr)	0.05	Endrin	0.0002
Lead (Pb)	0.05	Ethylene dichloride	0.005
Mercury (Hg)	0.002	Lindane	0.004
Molybdenum (Mo)	0.1	Methoxychlor	0.1
Nitrate (NO ₃)	44.0	Methylchloroform	0.2
Selenium (Se)	0.01	Toxaphene	0.005
Silver (Ag)	0.05	2,4-D	0.1
Combined radium (Ra-226 and - 228)	5.0 ^c	2,4,5-TP	0.01
Combined uranium (U-234 and -238)	30.0 ^c	Trichlorethylene	0.005
Net gross alpha (excluding radon and uranium)	15.0 ^c	Vinyl chloride	0.002

107 J.L.
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Table 11 Maximum concentration of regulated constituents
 for groundwater protection^a (Concluded)

Constituents without MCLs	Constituents without MCLs
Antimony (Sb) and compounds, NOS ^d	Nickel (Ni) and compounds, NOS ^d
Aluminum phosphide ^e	Strontium sulfide ^e
Beryllium (Be) and compounds, NOS ^d	Sulfide (S)
Calcium chromate ^e	Thallium (Th) and compounds, NOS ^d
Carbon disulfide ^e	Tin (Sn)
Carbon oxyfluoride ^e	Vanadium (V)
Copper (Cu)	Vanadic acid, ammonium salt ^e
Cobalt (Co)	Vanadium pentoxide ^e
Cyanides (CN), NOS ^{d,e,f}	Zinc (Zn)
	Zinc phosphide ^e

^aSummarized from draft final EPA groundwater standards, April 1989, 40 CFR 192.02.

^bMaximum concentration limits. Concentrations of these constituents shall not exceed background or the MCL limits, whichever is higher.

^cUnits are pCi/l.

^dNot otherwise specified. Members of compounds not specified in Appendix I.

^eAdded when Appendix I replaced Appendix IX of 40 CFR 264.

^fSoluble salts and complexes.

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Table 12.1 Summary of selected constituents in background groundwater quality in the Dolores River alluvium, UC Processing Site

Constituents with MCLs ^a			
Parameter	MCLs	Mean or Median	Statistical maximum
Arsenic	0.05	0.01 ^c	0.01 ^c
Barium	1.00	0.1 ^c	0.1 ^c
Cadmium	0.01	0.001 ^c	0.001 ^c
Chromium	0.05	0.01 ^c	0.07 ^c
Net gross alpha ^b	15.0	-9.45	5.08 ^f
Lead	0.05	0.01 ^c	0.01 ^c
Mercury	0.002	0.0002 ^c	0.0002 ^c
Molybdenum	0.10	0.07 ^d	0.11
Nitrate	44.0	0.50	12.0
Radium-226 and -228 ^b	5.00	1.08 ^d	2.33
Selenium	0.01	0.005 ^c	0.007
Silver	0.05	0.01 ^c	0.01 ^c
Uranium	0.044	0.029 ^d	0.033

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Table 12.1 Summary of selected constituents in background groundwater quality in the Dolores River alluvium, UC processing site (concluded)

Constituents without MCLs ^a		
Parameter	Mean or Median	Statistical maximum
Antimony	0.003 ^c	0.003 ^c
Beryllium	0.01 ^c	0.01 ^{c,f}
Cobalt	0.05 ^c	0.05 ^{c,f}
Copper	0.02 ^c	0.03
Cyanide	0.01 ^c	0.01 ^{c,f}
Nickel	0.04 ^c	0.04 ^c
Sulfide	0.18	0.30
Thallium	0.01 ^c	0.01 ^c
Tin	0.005 ^c	0.025
Vanadium	0.01 ^c	0.24
Zinc	0.005 ^c	0.015

^aAll units are mg/l unless otherwise noted.

^bUnits are pCi/l.

^cMean value, Lognormal distribution, mean is geometric.

^dMean value, Normal distribution, mean is arithmetic.

^eStatistical values are below laboratory detection limits in Table 8.1 of the Technical Approach Document (DOE, 1989).

^fValue is an observed maximum, rather than a statistical maximum, because less than four samples were available for statistical analysis.

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Table 12.2 Summary of selected constituents in background groundwater quality in the Dolores River alluvium, NC Processing Site

Constituents with MCLs ^a			
Parameter	MCLs	Mean or Median	Statistical maximum
Arsenic	0.05	0.01 ^c	0.01 ^c
Barium	1.00	0.1 ^c	0.2
Cadmium	0.01	0.001 ^c	0.001 ^c
Chromium	0.05	0.01 ^c	0.04
Net gross alpha ^b	15.0	-0.42	4.72
Lead	0.05	0.01 ^c	0.01 ^c
Mercury	0.002	0.0002 ^c	0.0002 ^c
Molybdenum	0.10	0.0855 ^d	0.133
Nitrate	44.0	0.50	1.6
Radium-226 and -228 ^b	5.00	1.35	7.80
Selenium	0.01	0.005 ^c	0.005 ^c
Silver	0.05	0.01 ^c	0.01 ^c
Uranium	0.044	0.036 ^d	0.048

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Table 12.2 Summary of selected constituents in background groundwater quality in the Dolores River alluvium, NC Processing Site

Constituents without MCLs ^a		
Parameter	Mean or Median	Statistical maximum
Antimony	0.003 ^c	0.003 ^c
Beryllium	0.01 ^c	0.01 ^{c,f}
Cobalt	0.05 ^c	0.05 ^{c,f}
Copper	0.02 ^c	0.05
Cyanide	0.01 ^c	0.01 ^{c,f}
Nickel	0.04 ^c	0.04 ^c
Sulfide	0.20	1.00
Thallium	0.01 ^c	0.01 ^c
Tin	0.005 ^c	0.005 ^c
Vanadium	0.01 ^c	0.39
Zinc	0.005 ^c	0.011

^aAll units are mg/l unless otherwise noted.

^bUnits are pCi/l.

^cMean value, Lognormal distribution, mean is geometric.

^dMean value, Normal distribution, mean is arithmetic.

^eStatistical values are below laboratory detection limits in Table 8.1 of the Technical Approach Document (DOE, 1989).

^fValues is an observed maximum, rather than a statistical maximum, because less than four samples were available for statistical analysis.

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Table 12.3 Summary of selected constituents in background groundwater quality in the Entrada Sandstone Formation, UC Processing Site

Constituents with MCLs ^a			
Parameter	MCLs	Mean or Median	Statistical maximum
Arsenic	0.05	0.01 ^c	0.01 ^c
Barium	1.00	0.12 ^d	0.19
Cadmium	0.01	0.001 ^c	0.002
Chromium	0.05	0.01 ^c	0.01 ^c
Net gross alpha ^b	15.0	-0.515	4.10
Lead	0.05	0.01 ^c	0.01 ^c
Mercury	0.002	0.0002 ^c	0.0002 ^c
Molybdenum	0.10	0.01 ^c	0.03
Nitrate	44.0	5.34 ^d	7.58
Radium-226 and -228 ^b	5.00	1.04 ^d	3.17
Selenium	0.01	0.005 ^c	0.013
Silver	0.05	0.01 ^c	0.01 ^c
Uranium	0.044	0.005 ^d	0.0083

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Table 12.3 Summary of selected constituents in background groundwater quality in the Entrada Sandstone Formation, UC Processing Site (concluded)

Constituents without MCLs ^a		
Parameter	Mean or Median	Statistical maximum
Antimony	0.003 ^c	0.003 ^c
Beryllium	0.01 ^c	0.01 ^c
Cobalt	0.05 ^c	0.05 ^c
Copper	0.02 ^c	0.02 ^c
Cyanide	0.01 ^c	0.01 ^c
Nickel	0.04 ^c	0.04 ^c
Sulfide	0.42 ^c	3.56
Thallium	0.01 ^c	0.01 ^c
Tin	0.005 ^c	0.005 ^c
Vanadium	0.01 ^c	0.02
Zinc	0.005 ^c	0.005 ^c

^aAll units are mg/l unless otherwise noted.

^bUnits are pCi/l.

^cMean value, Lognormal distribution, mean is geometric.

^dMean value, Normal distribution, mean is arithmetic.

^eStatistical values are below laboratory detection limits in Table 8.1 of the Technical Approach Document (DOE, 1989).

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Table 12.4 Summary of selected constituents in background groundwater quality in the Navajo Sandstone Formation, UC Processing Site

Constituents with MCLs ^a			
Parameter	MCLs	Mean or Median	Statistical maximum
Arsenic	0.05	0.01 ^c	0.01 ^c
Barium	1.00	0.11 ^d	0.18
Cadmium	0.01	0.001 ^c	0.001 ^c
Chromium	0.05	0.01 ^c	0.01 ^c
Net gross alpha ^b	15.0	0.36	3.63
Lead	0.05	0.01 ^c	0.01 ^c
Mercury	0.002	0.0002 ^c	0.0002 ^c
Molybdenum	0.10	0.01 ^c	0.06
Nitrate	44.0	2.20	5.70
Radium-226 and -228 ^b	5.00	1.67 ^c	5.61
Selenium	0.01	0.005 ^c	0.025
Silver	0.05	0.01 ^c	0.30
Uranium	0.044	0.006 ^d	0.012

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Table 12.4 . Summary of selected constituents in background groundwater quality in the Navajo Sandstone Formation, UC Processing Site (concluded)

Constituents without MCLs ^a		
Parameter	Mean or Median	Statistical maximum
Antimony	0.003 ^c	0.003 ^c
Beryllium	0.01 ^c	0.01 ^c
Cobalt	0.05 ^c	0.05 ^c
Copper	0.02 ^c	0.02 ^c
Cyanide	0.01 ^c	0.01 ^c
Nickel	0.04 ^c	0.04 ^c
Sulfide	0.15	16.6
Thallium	0.01 ^c	0.01 ^c
Tin	0.005 ^c	0.025
Vanadium	0.01 ^c	0.01 ^c
Zinc	0.005 ^c	0.007

^aAll units are mg/l unless otherwise noted.

^bUnits are pCi/l.

^cMean value, Lognormal distribution, mean is geometric.

^dMean value, Normal distribution, mean is arithmetic.

^eStatistical values are below laboratory detection limits in Table 8.1 of the Technical Approach Document (DOE, 1989).

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Table 12.5 Summary of selected constituents in background groundwater quality in the Navajo Sandstone Formation, NC Processing Site

Constituents with MCLs ^a			
Parameter	MCLs	Mean or Median	Statistical maximum
Arsenic	0.05	0.019 ^d	0.024
Barium	1.00	0.10 ^c	0.200
Cadmium	0.01	0.001 ^c	0.001 ^c
Chromium	0.05	0.01 ^c	0.05
Net gross alpha ^b	15.0	2.88	13.4
Lead	0.05	0.01 ^c	0.01 ^c
Mercury	0.002	0.0002 ^c	0.0002 ^c
Molybdenum	0.10	0.01 ^c	0.16
Nitrate	44.0	1.40	80.0
Radium-226 and -228 ^b	5.00	1.10	5.20
Selenium	0.01	0.005 ^c	0.005 ^c
Silver	0.05	0.01 ^c	0.01 ^c
Uranium	0.044	0.004 ^c	0.037

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Table 12.5 Summary of selected constituents in background groundwater quality in the Navajo Sandstone Formation, NC Processing Site (concluded)

Constituents without MCLs ^a		
Parameter	Mean or Median	Statistical maximum
Antimony	0.003 ^c	0.003 ^c
Beryllium	0.01 ^c	0.01 ^c
Cobalt	0.05 ^c	0.05 ^c
Copper	0.02 ^c	0.03
Cyanide	0.01 ^c	0.01 ^c
Nickel	0.04 ^c	0.06
Sulfide	0.35	4.70
Thallium	0.01 ^c	0.01 ^c
Tin	0.005 ^c	0.005 ^c
Vanadium	0.01 ^c	0.43
Zinc	0.005 ^c	0.242

^aAll units are mg/l unless otherwise noted.

^bUnits are pCi/l.

^cMean value, Lognormal distribution, mean is geometric.

^dMean value, Normal distribution, mean is arithmetic.

^eStatistical values are below laboratory detection limits in Table 8.1 of the Technical Approach Document (DOE, 1989).

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JACOBS ENGINEERING GROUP INC.

ALBUQUERQUE OPERATIONS

CALCULATION COVER SHEET

B
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CALC NO. SRR-05-93-12-07 DISCIPLINE Hydro

NO. OF SHEETS

PROJECT:

UMTRA

SITE:

Slick Rock Processing site (SRR01)

FEATURE:

Lysimeter water quality.

SOURCES OF DATA:

UMTRA PART SYSTEM

SOURCES OF FORMULAE & REFERENCES:

UMTRA PART SYSTEM.

PRELIMINARY CALC. ☐

FINAL CALC. ☐

SUPERSEDES CALC. NO. _____

00	N/A	A. Thompson	6/14/93	Kathy Monts	6/15/93		
REV. NO.	REVISION	CALCULATION BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE

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KAM
6/15/93

TAILINGS SOURCE TERM CONCENTRATION
SLICKROCK PROCESSING SITES (SRK01)

CALC # SRK-05-93-12-07

A. PURPOSE OF CALCULATION

To determine the source term concentration of the tailings materials at both the Union Carbide (UC) and North Continent (NC) Processing Sites, located near Slick Rock, Colorado.

B. OVERVIEW OF METHOD

Chemical characteristics of tailings material were evaluated by pore fluid sampling with suction lysimeters. Fourteen lysimeters were installed in tailings material at the Slick Rock processing sites, five at the NC site and nine at the UC site. Locations for all lysimeters shown in Figures 1 and 2. Five lysimeters (201 - 205) were placed in the NC tailings material in November, 1990. At the UC processing site, three lysimeters (514 - 516) were installed in tailings material in January, 1989 and six additional lysimeters (206 - 211) installed in November, 1990.

Lysimeters were sampled from the first of January, 1989 to November, 14, 1992. For all sampling rounds, lysimeters 201, 209, 211, and 516 were "dry" and did not produce water in sufficient quantities that could be analyzed for any constituents. Also, in some instances, quantities of tailings pore water collected from different lysimeters were insufficient to conduct all of the laboratory analyses. For example, data for some inorganic and radionuclide parameters (i.e., nitrate, gross alpha, and radium-226,-228) that require large (1 liter) sample volumes may not be available.

C. ASSUMPTIONS

- o Pore fluid from lysimeters was representative of fluids in tailings material at representative sites.
- o The data at each location was not averaged before statistical calculations were performed.
- o Chemical constituents were analyzed with approved and established procedures.
- o Quality control procedures were used during all sampling activities.

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D. MATERIAL PROPERTIES

Tailings material at both processing sites consists of relatively dry silty or clayey sands. The NC tailings material has an average residual volumetric moisture content of 5.1 percent (range is from 4.6 to 6.0 percent). Laboratory saturated permeability tests indicate the NC tailings have an average saturated hydraulic conductivity of 4.7×10^{-2} cm/sec (133.2 ft/day).

The tailings at the UC site have an average residual volumetric moisture content of 4.4 percent (range is from 2.5 to 6.5 percent). Laboratory saturated permeability tests indicate a saturated hydraulic conductivity of 5.5×10^{-2} cm/sec (155.9 ft/day).

E. DATA SOURCES

Lysimeter pore water quality data is stored in the UMTRA data base management system DART. This information is reproduced in the attached tables. Lysimeter pore water quality data by parameter and a statistical analysis of pore water for the UC processing site is presented in Tables 1 and 2. Tables 3 and 4 show the same type data for the NC processing site.

A hazardous constituent is any constituent listed in 40 CFR 192 Table 1 and Appendix I and in 40 CFR 264 Appendix IX which have been incorporated by reference into 40 CFR 192. A list of maximum concentrations of constituents for groundwater protection is presented in Table 5.

F. CONCLUSIONS AND RECOMMENDATIONS

Tailings pore water quality data are summarized in Table 6.1 and 6.2 for the UC and NC processing sites respectively. Presented are the median or mean values (depending on the distribution type), the MCL for each constituent, a background value for comparison, and the amount a given constituent exceeded either the MCL or background value.

G. REFERENCES

UMTRA data base management system DART.

H. ATTACHMENTS

Figure 1. Location of suction lysimeters on the tailings pile, UC and NC processing sites, Slick Rock, Colorado.

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Table 1.	Lysimeter water quality data by parameter For the UC processing site, Slick Rock, Colorado.
Table 2.	Lysimeter water quality statistics by parameter for the UC processing site, Slick Rock, Colorado.
Table 3.	Lysimeter water quality data by parameter for the NC processing site, Slick Rock, Colorado.
Table 4.	Lysimeter water quality statistics by parameter for the NC processing site, Slick Rock, Colorado.
Table 5.	Maximum concentration of regulated constituents for groundwater protection
Table 6.1	Summary of selected constituents in the tailings pore fluid samples, UC processing site
Table 6.2	Summary of selected constituents in the tailings pore fluid samples, NC processing site

TABLE 1. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR THE
UC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	SAMPLE MAT. ID	FLOW REL.	UNITS OF MEASURE	PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	0206	12/12/90	N001	AL	N	MG/L	316.		-	-
	0206	08/07/91	0001	AL	N		269		-	-
	0514	01/12/89	0001	TA	O		80.		-	-
	0515	01/12/89	0001	TA	O		60.		-	-
	0515	04/17/91	0001	TA	O		44.		-	-
ALUMINUM	0206	12/09/91	0001	TA	O		11		-	-
	0206	04/17/91	0001	AL	N	MG/L	0.05		0.05	-
	0206	08/07/91	0001	AL	N		0.05		0.05	-
	0206	10/14/92	0001	AL	N		0.05		0.05	-
	0207	08/07/91	0001	AL	N		0.05		0.05	-
	0207	10/14/92	0001	AL	N		0.05		0.05	-
	0514	01/12/89	0001	TA	O		0.1		0.1	-
	0515	01/12/89	0001	TA	O		0.1		0.1	-
	0515	04/17/91	0001	TA	O		0.06		0.05	-
	0515	08/07/91	0001	TA	O		0.05		0.05	-
ALUMINUM (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	0.1		0.1	-
	0207	12/12/90	N001	AL	N		0.1		0.1	-
	0208	10/14/92	N001	HR	N		0.05		0.05	-
	0210	12/12/90	N001	AL	N		0.1		0.1	-
	0515	10/14/92	N001	TA	O		0.13		0.05	-
AMMONIUM	0206	08/07/91	0001	AL	N	MG/L	0.2		0.1	-
	0514	01/12/89	0001	TA	O		4.3		0.1	-
	0515	01/12/89	0001	TA	O		1.6		0.1	-
ANTIMONY	0206	04/17/91	0001	AL	N	MG/L	0.036		0.003	-
	0206	08/07/91	0001	AL	N		0.015	I	0.015	-
	0206	10/14/92	0001	AL	N		0.004		0.003	-
	0207	08/07/91	0001	AL	N		0.015		0.015	-
	0207	10/14/92	0001	AL	N		0.02	I	0.02	-
	0514	01/12/89	0001	TA	O		0.003		0.003	-
	0515	01/12/89	0001	TA	O		0.005		0.003	-
	0515	04/17/91	0001	TA	O		0.018		0.003	-
	0515	08/07/91	0001	TA	O		0.015	I	0.015	-
	0206	12/12/90	N001	AL	N	MG/L	0.003		0.003	-
ANTIMONY (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	0.003		0.003	-

MATERIAL OF SAMPLING CODE:

AL - ALLUVIUM

TA - URANIUM MILL TAILINGS

HR - NO RECOVERY OF DATA FOR CLASSIFYING

FLOW RELATIONSHIP CODE:

N - UNKNOWN

O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (<.45 MICRONS)

N001 - UNFILTERED SAMPLE

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TABLE 1. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR THE
UC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ANTIMONY (TOTAL)	0207	12/12/90	N001	AL	N	MG/L		0.007		0.003	-
	0208	10/14/92	N001	HR	N			0.005		0.003	-
	0210	12/12/90	N001	AL	N			0.005		0.003	-
ARSENIC	0206	04/17/91	0001	AL	N	MG/L	<	0.03	I	0.03	-
	0206	08/07/91	0001	AL	N		<	0.01		0.01	-
	0206	10/14/92	0001	AL	N		<	0.05	I	0.05	-
	0207	08/07/91	0001	AL	N		<	0.1	I	0.1	-
	0207	10/14/92	0001	AL	N		<	0.006		0.005	-
	0514	01/12/89	0001	TA	O		<	0.01		0.01	-
	0515	01/12/89	0001	TA	O		<	0.01		0.01	-
	0515	04/17/91	0001	TA	O			0.07		0.01	-
	0515	08/07/91	0001	TA	O			0.02		0.01	-
	0206	12/12/90	N001	AL	N	MG/L		0.02		0.01	-
ARSENIC (TOTAL)	0207	12/12/90	N001	AL	N			0.03		0.01	-
	0210	12/12/90	N001	AL	N			0.06		0.01	-
BARIUM	0206	04/17/91	0001	AL	N	MG/L		0.05		0.01	-
	0206	08/07/91	0001	AL	N			0.05		0.01	-
	0206	10/14/92	0001	AL	N			0.03		0.01	-
	0207	08/07/91	0001	AL	N			0.04		0.01	-
	0207	10/14/92	0001	AL	N			0.04		0.01	-
	0514	01/12/89	0001	TA	O			0.07	C	0.07	-
	0515	01/12/89	0001	TA	O			0.04	C	0.04	-
	0515	04/17/91	0001	TA	O			0.01		0.01	-
	0515	08/07/91	0001	TA	O			0.01		0.01	-
	0206	12/12/90	N001	AL	N	MG/L	<	0.1		0.1	-
BARIUM (TOTAL)	0207	12/12/90	N001	AL	N		<	0.1		0.1	-
	0208	10/14/92	N001	HR	N			0.03		0.01	-
	0210	12/12/90	N001	AL	N		<	0.1		0.1	-
	0515	10/14/92	N001	TA	O		<	0.01		0.01	-
BERYLLIUM	0206	04/17/91	0001	AL	N	MG/L		0.005		0.005	-
	0206	08/07/91	0001	AL	N		<	0.005		0.005	-
	0207	08/07/91	0001	AL	N		<	0.005		0.005	-

MATERIAL OF SAMPLING CODE:

AL - ALLUVIUM
HR - NO RECOVERY OF DATA FOR CLASSIFYING
TA - URANIUM HILL TAILINGS

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
C - CHANGED DETECTION LIMIT

FLOW RELATIONSHIP CODE:
N - UNKNOWN
O - ON-SITE

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)
N001 - UNFILTERED SAMPLE

TABLE 1. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR THE
UC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRX01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BERYLLIUM	0514	01/12/89	0001	TA	O	MG/L	<	0.01		0.01	-
	0515	01/12/89	0001	TA	O		<	0.01		0.01	-
	0515	04/17/91	0001	TA	O		<	0.005		0.005	-
	0515	08/07/91	0001	TA	O		<	0.005		0.005	-
BERYLLIUM (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	<	0.01		0.01	-
	0207	12/12/90	N001	AL	N		<	0.01		0.01	-
	0210	12/12/90	N001	AL	N		<	0.01		0.01	-
BORON	0206	04/17/91	0001	AL	N	MG/L		0.43		0.05	-
	0514	01/12/89	0001	TA	O			0.5		0.1	-
	0515	01/12/89	0001	TA	O			0.2		0.1	-
	0515	04/17/91	0001	TA	O			0.33		0.05	-
BORON (TOTAL)	0206	12/12/90	N001	AL	N	MG/L		0.5		0.1	-
	0207	12/12/90	N001	AL	N			0.5		0.1	-
	0210	12/12/90	N001	AL	N			0.2		0.1	-
BROMIDE	0206	10/14/92	0001	AL	N	MG/L	<	1.	I	1.	-
	0207	10/14/92	0001	AL	N		<	0.5	I	0.5	-
	0514	01/12/89	0001	TA	O		<	0.1		0.1	-
	0515	01/12/89	0001	TA	O		<	0.1		0.1	-
BROMIDE (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	<	0.1	c	0.1	-
	0210	12/12/90	N001	AL	N		<	0.1	c	0.1	-
CADMIUM	0206	04/17/91	0001	AL	N	MG/L		0.002		0.001	-
	0206	08/07/91	0001	AL	N		<	0.001		0.001	-
	0206	10/14/92	0001	AL	N			0.001		0.001	-
	0207	08/07/91	0001	AL	N		<	0.001		0.001	-
	0207	10/14/92	0001	AL	N		<	0.005	I	0.005	-
	0514	01/12/89	0001	TA	O			0.652		0.001	-
	0515	01/12/89	0001	TA	O			0.207		0.001	-
	0515	04/17/91	0001	TA	O			0.194		0.005	-
	0515	08/07/91	0001	TA	O			0.1		0.1	-
	0206	12/12/90	N001	AL	N	MG/L		0.001		0.001	-
	0207	12/12/90	N001	AL	N		<	0.001		0.001	-

MATERIAL OF SAMPLING CODE:
TA - URANIUM MILL TAILINGS
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
N - UNKNOWN

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)
N001 - UNFILTERED SAMPLE

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
c - CHANGED DETECTION LIMIT

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TABLE 1. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR THE
UC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CADMIUM (TOTAL)	0208	10/14/92	N001	NR	N	MG/L	<	0.005	I	0.005	-
	0210	12/12/90	N001	AL	N			0.006		0.001	-
	0515	10/14/92	N001	TA	O			0.053		0.005	-
CALCIUM	0206	04/17/91	0001	AL	N	MG/L		750.		2.	-
	0206	08/07/91	0001	AL	N			770.		2.	-
	0206	10/14/92	0001	AL	N			715.		2.	-
	0207	08/07/91	0001	AL	N			720.		2.	-
	0207	10/14/92	0001	AL	N			650.		2.	-
	0514	01/12/89	0001	TA	O			578.		0.01	-
	0515	01/12/89	0001	TA	O			527.		0.01	-
	0515	04/17/91	0001	TA	O			488.		2.	-
	0515	08/07/91	0001	TA	O			409.		0.5	-
	0515	08/07/91	0001	TA	O			409.		0.5	-
CALCIUM (TOTAL)	0206	12/12/90	N001	AL	N	MG/L		697.		0.01	-
	0207	12/12/90	N001	AL	N			616.		0.01	-
	0208	10/14/92	N001	NR	N			695.		2.	-
	0210	12/12/90	N001	AL	N			491.		0.01	-
	0515	10/14/92	N001	TA	O			350.		0.5	-
CHLORIDE	0206	10/14/92	0001	AL	N	MG/L		89.		1.	-
	0207	10/14/92	0001	AL	N			48.		1.	-
	0514	01/12/89	0001	TA	O			14.		1.	-
	0515	01/12/89	0001	TA	O			29.		1.	-
CHLORIDE (TOTAL)	0206	12/12/90	N001	AL	N	MG/L		92.		1.	-
	0210	12/12/90	N001	AL	N			116.		1.	-
CHROMIUM	0206	04/17/91	0001	AL	N	MG/L	<	0.01		0.01	-
	0206	08/07/91	0001	AL	N		<	0.01		0.01	-
	0206	10/14/92	0001	AL	N		<	0.01		0.01	-
	0207	08/07/91	0001	AL	N		<	0.01		0.01	-
	0207	10/14/92	0001	AL	N		<	0.01		0.01	-
	0514	01/12/89	0001	TA	O		<	0.01		0.01	-
	0515	01/12/89	0001	TA	O		<	0.01		0.01	-
	0515	04/17/91	0001	TA	O		<	0.01		0.01	-
	0515	08/07/91	0001	TA	O		<	0.01		0.01	-
	0515	08/07/91	0001	TA	O		<	0.01		0.01	-
CHROMIUM (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	<	0.01		0.01	-

MATERIAL OF SAMPLING CODE:
NR - NO RECOVERY OF DATA FOR CLASSIFYING
AL - ALLUVIUM
TA - URANIUM MILL TAILINGS

FLOW RELATIONSHIP CODE:
N - UNKNOWN
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)
N001 - UNFILTERED SAMPLE

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6/15/93

TABLE 1. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR THE
UC PROCESSING SITE, SLICKROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CHROMIUM (TOTAL)	0207	12/12/90	N001	AL	N	MG/L	0.02		0.01	-
	0208	10/14/92	N001	NR	N		< 0.01		0.01	-
	0210	12/12/90	N001	AL	N		< 0.01		0.01	-
	0515	10/14/92	N001	TA	O		< 0.01		0.01	-
COBALT	0206	04/17/91	0001	AL	N	MG/L	< 0.03		0.03	-
	0206	08/07/91	0001	AL	N		< 0.03		0.03	-
	0207	08/07/91	0001	AL	N		< 0.03		0.03	-
	0514	01/12/89	0001	TA	O		0.28		0.05	-
	0515	01/12/89	0001	TA	O		< 0.05		0.05	-
	0515	04/17/91	0001	TA	O		0.04		0.03	-
	0515	08/07/91	0001	TA	O		< 0.03		0.03	-
	0515	08/07/91	0001	TA	O		< 0.03		0.03	-
COBALT (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	< 0.05		0.05	-
	0207	12/12/90	N001	AL	N		< 0.05		0.05	-
	0210	12/12/90	N001	AL	N		< 0.05		0.05	-
COPPER	0206	04/17/91	0001	AL	N	MG/L	0.03		0.01	-
	0206	08/07/91	0001	AL	N		0.03		0.01	-
	0206	10/14/92	0001	AL	N		0.01		0.01	-
	0207	08/07/91	0001	AL	N		0.02		0.01	-
	0207	10/14/92	0001	AL	N		0.02		0.01	-
	0514	01/12/89	0001	TA	O		36.7		0.02	-
	0515	01/12/89	0001	TA	O		0.43		0.02	-
	0515	04/17/91	0001	TA	O		2.53		0.01	-
	0515	08/07/91	0001	TA	O		2.43		0.01	-
	0515	08/07/91	0001	TA	O		2.43		0.01	-
	0515	08/07/91	0001	TA	O		2.43		0.01	-
COPPER (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	< 0.02		0.02	-
	0207	12/12/90	N001	AL	N		0.02		0.02	-
	0208	10/14/92	N001	NR	N		0.05		0.01	-
	0210	12/12/90	N001	AL	N		0.06		0.02	-
	0515	10/14/92	N001	TA	O		1.11		0.01	-
FLUORIDE	0206	10/14/92	0001	AL	N	MG/L	0.2		0.1	-
	0207	10/14/92	0001	AL	N		0.7		0.1	-
FLUORIDE (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	0.2		0.1	-
	0210	12/12/90	N001	AL	N		0.3		0.1	-
GROSS ALPHA	0206	08/07/91	0001	AL	N	PCI/L	72.8		1.	36.8

MATERIAL OF SAMPLING CODE:

AL - ALLUVIUM

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TA - URANIUM MILL TAILINGS

FLOW RELATIONSHIP CODE:

N - UNKNOWN

O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

N001 - UNFILTERED SAMPLE

TABLE 1. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR THE
UC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
GROSS ALPHA	0207	08/07/91	0001	AL	N	PCI/L	293.		1.	61.1
	0515	08/07/91	0001	TA	O		1026.		1.	104.
GROSS ALPHA (TOTAL)	0206	12/12/90	N001	AL	N	PCI/L	120.		1.	40.
	0210	12/12/90	N001	AL	N		430.		1.	60.
GROSS BETA	0206	08/07/91	0001	AL	N	PCI/L	54.7		0.5	21.1
	0207	08/07/91	0001	AL	N		170.		0.5	28.3
	0515	08/07/91	0001	TA	O		379.		0.5	35.7
GROSS BETA (TOTAL)	0206	12/12/90	N001	AL	N	PCI/L	58.		0.5	20.
	0210	12/12/90	N001	AL	N		190.		0.5	20.
IRON	0206	04/17/91	0001	AL	N	MG/L	< 0.03		0.03	-
	0206	08/07/91	0001	AL	N		< 0.03		0.03	-
	0206	10/14/92	0001	AL	N		< 0.03		0.03	-
	0207	08/07/91	0001	AL	N		< 0.03		0.03	-
	0207	10/14/92	0001	AL	N		< 0.03		0.03	-
	0514	01/12/89	0001	TA	O		0.08		0.03	-
	0515	01/12/89	0001	TA	O		0.10		0.03	-
	0515	04/17/91	0001	TA	O		< 0.03		0.03	-
	0515	08/07/91	0001	TA	O		< 0.03		0.03	-
IRON (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	0.27		0.03	-
	0207	12/12/90	N001	AL	N		0.19		0.03	-
	0208	10/14/92	N001	NR	N		0.05		0.03	-
	0210	12/12/90	N001	AL	N		0.11		0.03	-
	0515	10/14/92	N001	TA	O		0.04		0.03	-
LEAD	0206	04/17/91	0001	AL	N	MG/L	< 0.03	I	0.03	-
	0206	08/07/91	0001	AL	N		< 0.005		0.005	-
	0206	10/14/92	0001	AL	N		< 0.003		0.003	-
	0207	08/07/91	0001	AL	N		< 0.03	I	0.03	-
	0207	10/14/92	0001	AL	N		< 0.003		0.003	-
	0514	01/12/89	0001	TA	O		0.01		0.01	-
	0515	01/12/89	0001	TA	O		0.01		0.01	-
	0515	04/17/91	0001	TA	O		< 0.03	I	0.03	-
	0515	08/07/91	0001	TA	O		< 0.5	I	0.5	-

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OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

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13 D
6/15/9

TABLE 1. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR THE
UC PROCESSING SITE, SLICKROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
LEAD (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	0.01		0.01	-
	0207	12/12/90	N001	AL	N		0.01		0.01	-
	0208	10/14/92	N001	NR	N		0.003		0.003	-
	0210	12/12/90	N001	AL	N		0.01		0.01	-
	0515	10/14/92	N001	TA	O		0.033		0.003	-
MAGNESIUM	0206	04/17/91	0001	AL	N	MG/L	128.		0.5	-
	0206	08/07/91	0001	AL	N		139.		0.5	-
	0206	10/14/92	0001	AL	N		121.		0.5	-
	0207	08/07/91	0001	AL	N		253.		0.5	-
	0207	10/14/92	0001	AL	N		249.		0.5	-
	0514	01/12/89	0001	TA	O		129.		0.001	-
	0515	01/12/89	0001	TA	O		118.		0.001	-
	0515	04/17/91	0001	TA	O		218.		2.	-
	0515	08/07/91	0001	TA	O		181.		0.5	-
MAGNESIUM (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	130.		0.001	-
	0207	12/12/90	N001	AL	N		230.		0.001	-
	0208	10/14/92	N001	NR	N		134.		0.5	-
	0210	12/12/90	N001	AL	N		257.		0.001	-
	0515	10/14/92	N001	TA	O		120.		0.5	-
MANGANESE	0206	04/17/91	0001	AL	N	MG/L	< 0.01		0.01	-
	0206	08/07/91	0001	AL	N		< 0.01		0.01	-
	0206	10/14/92	0001	AL	N		< 0.01		0.01	-
	0207	08/07/91	0001	AL	N		< 0.05	I	0.05	-
	0207	10/14/92	0001	AL	N		< 0.05	I	0.05	-
	0514	01/12/89	0001	TA	O		1.12		0.01	-
	0515	01/12/89	0001	TA	O		0.63		0.01	-
	0515	04/17/91	0001	TA	O		0.45		0.01	-
	0515	08/07/91	0001	TA	O		0.28		0.01	-
MANGANESE (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	0.03		0.01	-
	0207	12/12/90	N001	AL	N		0.03		0.01	-
	0208	10/14/92	N001	NR	N		< 0.01		0.01	-
	0210	12/12/90	N001	AL	N		0.36		0.01	-
	0515	10/14/92	N001	TA	O		0.13		0.01	-
MERCURY	0514	01/12/89	0001	TA	O	MG/L	< 0.0002		0.0002	-

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14 J.L.
6/15/93

TABLE 1. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR THE
UC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MERCURY	0515	01/12/89	0001	TA	O	MG/L	<	0.0002		0.0002	-
MERCURY (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	<	0.0002		0.0002	-
	0207	12/12/90	N001	AL	N			0.0002		0.0002	-
	0210	12/12/90	N001	AL	N			0.0002		0.0002	-
MOLYBDENUM	0206	04/17/91	0001	AL	N	MG/L		0.22		0.01	-
	0206	08/07/91	0001	AL	N			0.20		0.01	-
	0206	10/14/92	0001	AL	N			0.16		0.01	-
	0207	08/07/91	0001	AL	N			13.5		0.05	-
	0207	10/14/92	0001	AL	N			11.6		0.05	-
	0514	01/12/89	0001	TA	O			3.46		0.01	-
	0515	01/12/89	0001	TA	O			18.0		0.01	-
	0515	04/17/91	0001	TA	O			23.1		0.05	-
	0515	08/07/91	0001	TA	O			21.1		0.05	-
MOLYBDENUM (TOTAL)	0206	12/12/90	N001	AL	N	MG/L		0.49		0.01	-
	0207	12/12/90	N001	AL	N			30.6		0.01	-
	0208	10/14/92	N001	NR	N			9.45		0.05	-
	0210	12/12/90	N001	AL	N			13.6		0.01	-
	0515	10/14/92	N001	TA	O			14.2		0.05	-
NET GROSS ALPHA *	0206	08/07/91	0001	AL	N	PCI/L		-31.47		-	-
	0207	08/07/91	0001	AL	N			-21.19		-	-
	0515	08/07/91	0001	TA	O			1022.57		-	-
NET GROSS ALPHA (TOTAL) **	0206	12/12/90	N001	AL	N	PCI/L		27.39		-	-
	0210	12/12/90	N001	AL	N			-9.73		-	-
NICKEL	0206	04/17/91	0001	AL	N	MG/L	<	0.04		0.04	-
	0206	08/07/91	0001	AL	N		<	0.04		0.04	-
	0206	10/14/92	0001	AL	N		<	0.04		0.04	-
	0207	08/07/91	0001	AL	N		<	0.04		0.04	-
	0207	10/14/92	0001	AL	N		<	0.04		0.04	-
	0514	01/12/89	0001	TA	O			0.17		0.04	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

** NET GROSS ALPHA (TOTAL) (TOTAL GROSS ALPHA - TOTAL URANIUM)

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15 D.L.
6/15/93

TABLE 1. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR THE
UC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NICKEL	0515	01/12/89	0001	TA	O	MG/L	<	0.04		0.04	-
	0515	04/17/91	0001	TA	O		<	0.04		0.04	-
	0515	08/07/91	0001	TA	O		<	0.04		0.04	-
NICKEL (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	<	0.04		0.04	-
	0207	12/12/90	N001	AL	N		<	0.04		0.04	-
	0208	10/14/92	N001	NR	N		<	0.04		0.04	-
	0210	12/12/90	N001	AL	N		<	0.04		0.04	-
	0515	10/14/92	N001	TA	O		<	0.04		0.04	-
NITRATE	0206	08/07/91	0001	AL	N	MG/L		744.		1.	-
	0514	01/12/89	0001	TA	O			210.		1.	-
	0515	01/12/89	0001	TA	O			40.		1.	-
NITRITE AND NITRATE	0206	08/07/91	0001	AL	N	MG/L		168.		0.05	-
PH	0206	12/12/90	N001	AL	N	SU		7.16		-	-
	0206	04/17/91	0001	AL	N			7.47		-	-
	0206	08/07/91	0001	AL	N			7.02		-	-
	0206	10/14/92	0001	AL	N			7.11		-	-
	0207	12/12/90	N001	AL	N			7.8		-	-
	0207	08/07/91	0001	AL	N			7.66		-	-
	0207	10/14/92	0001	AL	N			7.39		-	-
	0208	10/14/92	N001	NR	N			7.69		-	-
	0210	12/12/90	N001	AL	N			7.81		-	-
	0514	01/12/89	0001	TA	O			6.21		-	-
	0515	01/12/89	0001	TA	O			7.04		-	-
	0515	04/17/91	0001	TA	O			6.43		-	-
	0515	12/09/91	0001	TA	O			6.62		-	-
	0515	10/14/92	N001	TA	O			6.00		-	-
PHOSPHATE	0514	01/12/89	0001	TA	O	MG/L	<	0.1		0.1	-
	0515	01/12/89	0001	TA	O		<	0.1		0.1	-
PHOSPHATE (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	<	0.1		0.1	-
	0210	12/12/90	N001	AL	N		<	0.1		0.1	-
POTASSIUM	0206	04/17/91	0001	AL	N	MG/L		5.2		0.1	-
	0206	08/07/91	0001	AL	N			4.7		0.01	-

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TABLE 1. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR THE
UC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
POTASSIUM	0206	10/14/92	0001	AL	N	MG/L	3.61		0.01	-
	0207	08/07/91	0001	AL	N		4.8		0.01	-
	0207	10/14/92	0001	AL	N		3.34		0.01	-
	0514	01/12/89	0001	TA	O		6.3		0.01	-
	0515	01/12/89	0001	TA	O		2.1		0.01	-
	0515	04/17/91	0001	TA	O		4.1		0.1	-
	0515	08/07/91	0001	TA	O		4.7		0.01	-
POTASSIUM (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	8.2		0.01	-
	0207	12/12/90	N001	AL	N		28.4		0.01	-
	0210	12/12/90	N001	AL	N		10.6		0.01	-
REDOX POTENTIAL	0206	12/12/90	N001	AL	N	mVOLTS	406.3		-	-
	0207	12/12/90	N001	AL	N		324.7		-	-
SELENIUM	0206	04/17/91	0001	AL	N	MG/L	1.00		0.005	-
	0206	08/07/91	0001	AL	N		0.150		0.03	-
	0206	10/14/92	0001	AL	N		0.09		0.05	-
	0207	08/07/91	0001	AL	N		16.0		0.5	-
	0207	10/14/92	0001	AL	N		16.		5.	-
	0514	01/12/89	0001	TA	O		1.64		0.005	-
	0515	01/12/89	0001	TA	O		1.54		0.005	-
	0515	04/17/91	0001	TA	O		8.0		0.5	-
	0515	08/07/91	0001	TA	O		7.0		0.5	-
	0206	12/12/90	N001	AL	N	MG/L	0.39		0.005	-
	0207	12/12/90	N001	AL	N		21.6		0.005	-
SELENIUM (TOTAL)	0208	10/14/92	N001	NR	N		14.0		0.5	-
	0210	12/12/90	N001	AL	N		1.48		0.005	-
	0515	10/14/92	N001	TA	O		7.0		0.5	-
SILICA - SiO2	0206	10/14/92	0001	AL	N	MG/L	61.5		0.1	-
	0207	10/14/92	0001	AL	N		70.4		0.1	-
	0514	01/12/89	0001	TA	O		49.		2.	-
	0515	01/12/89	0001	TA	O		48.		2.	-
SILICA - SiO2 (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	52.		2.	-
	0207	12/12/90	N001	AL	N		48.		2.	-
	0208	10/14/92	N001	NR	N		70.7		0.1	-

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17 D.L.
6/15/93

TABLE 1. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR THE
UC PROCESSING SITE, SLICKROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SILICA - SiO2 (TOTAL)	0210	12/12/90	N001	AL	N	MG/L	65.		2.	-
	0515	10/14/92	N001	TA	O		55.9		0.1	-
SILVER	0206	04/17/91	0001	AL	N	MG/L	< 0.01		0.01	-
	0206	08/07/91	0001	AL	N		< 0.01		0.01	-
	0207	08/07/91	0001	AL	N		< 0.01		0.01	-
	0514	01/12/89	0001	TA	O		< 0.01		0.01	-
	0515	01/12/89	0001	TA	O		< 0.01		0.01	-
	0515	04/17/91	0001	TA	O		< 0.01		0.01	-
	0515	08/07/91	0001	TA	O		< 0.01		0.01	-
SILVER (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	< 0.01		0.01	-
	0207	12/12/90	N001	AL	N		< 0.01		0.01	-
	0210	12/12/90	N001	AL	N		< 0.01		0.01	-
SODIUM	0206	04/17/91	0001	AL	N	MG/L	149.		5.	-
	0206	08/07/91	0001	AL	N		160.		5.	-
	0206	10/14/92	0001	AL	N		161.		5.	-
	0207	08/07/91	0001	AL	N		54.		1.	-
	0207	10/14/92	0001	AL	N		55.		1.	-
	0514	01/12/89	0001	TA	O		25.2		0.002	-
	0515	01/12/89	0001	TA	O		44.7		0.002	-
	0515	04/17/91	0001	TA	O		695.		20.	-
	0515	08/07/91	0001	TA	O		591.		5.	-
SODIUM (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	149.		0.002	-
	0207	12/12/90	N001	AL	N		63.1		0.002	-
	0208	10/14/92	N001	NR	N		88.		1.	-
	0210	12/12/90	N001	AL	N		189.		0.002	-
	0515	10/14/92	N001	TA	O		510.		5.	-
SPECIFIC CONDUCTANCE	0206	12/12/90	N001	AL	N	UMHO/CM	3380.		-	-
	0206	04/17/91	0001	AL	N		4410.		-	-
	0206	08/07/91	0001	AL	N		3960		-	-
	0207	08/07/91	0001	AL	N		4100		-	-
	0210	12/12/90	N001	AL	N		2950.		-	-
	0514	01/12/89	0001	TA	O		1825.		-	-
	0515	01/12/89	0001	TA	O		1500.		-	-
	0515	04/17/91	0001	TA	O		4850.		-	-

MATERIAL OF SAMPLING CODE:

AL - ALLUVIUM

TA - URANIUM MILL TAILINGS

NR - NO RECOVERY OF DATA FOR CLASSIFYING

FLOW RELATIONSHIP CODE:

N - UNKNOWN

O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

N001 - UNFILTERED SAMPLE

TABLE 1. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR THE
UC PROCESSING SITE, SLICKROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SPECIFIC CONDUCTANCE	0515	12/09/91	0001	TA	O	UMHO/CM	5570		-	-
STRONTIUM	0206	04/17/91	0001	AL	N	MG/L	4.65		0.05	-
	0206	08/07/91	0001	AL	N		4.89		0.01	-
	0206	10/14/92	0001	AL	N		4.30		0.01	-
	0207	08/07/91	0001	AL	N		6.07		0.01	-
	0207	10/14/92	0001	AL	N		6.37		0.01	-
	0514	01/12/89	0001	TA	O		3.8		0.1	-
	0515	01/12/89	0001	TA	O		3.7		0.1	-
	0515	04/17/91	0001	TA	O		7.25		0.05	-
	0515	08/07/91	0001	TA	O		6.11		0.01	-
STRONTIUM (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	5.3		0.1	-
	0207	12/12/90	N001	AL	N		6.4		0.1	-
	0208	10/14/92	N001	NR	N		6.31		0.01	-
	0210	12/12/90	N001	AL	N		5.7		0.1	-
	0515	10/14/92	N001	TA	O		5.30		0.01	-
SULFATE	0206	10/14/92	0001	AL	N	MG/L	1500.		10.	-
	0207	10/14/92	0001	AL	N		1840.		10.	-
	0514	01/12/89	0001	TA	O		2030.		0.1	-
	0515	01/12/89	0001	TA	O		1870.		0.1	-
SULFATE (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	1290.		0.1	-
	0210	12/12/90	N001	AL	N		2460.		0.1	-
SULFIDE	0514	01/12/89	0001	TA	O	MG/L	< 0.1		0.1	-
	0515	01/12/89	0001	TA	O		< 0.1		0.1	-
TEMPERATURE	0206	12/12/90	N001	AL	N	C - DEGREE	13.0		-	-
	0206	04/17/91	0001	AL	N		12.8		-	-
	0206	10/14/92	0001	AL	N		19.8		-	-
	0207	12/12/90	N001	AL	N		13.0		-	-
	0207	10/14/92	0001	AL	N		19.8		-	-
	0208	10/14/92	N001	NR	N		17.0		-	-
	0210	12/12/90	N001	AL	N		11.5		-	-
	0514	01/12/89	0001	TA	O		6.5		-	-
	0515	01/12/89	0001	TA	O		5.		-	-
	0515	12/09/91	0001	TA	O		7.71		-	-

MATERIAL OF SAMPLING CODE:
TA - URANIUM MILL TAILINGS
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FLOW RELATIONSHIP CODE:
O - ON-SITE
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PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)
N001 - UNFILTERED SAMPLE

19 DD.
6/15/93

TABLE 1. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR THE
UC PROCESSING SITE, SLICKROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TEMPERATURE	0515	10/14/92	N001	TA	O	C - DEGREE		19.8		-	-
THALLIUM	0206	04/17/91	0001	AL	N	MG/L	<	0.01		0.01	-
	0206	08/07/91	0001	AL	N		<	0.05	I	0.05	-
	0206	10/14/92	0001	AL	N		<	0.005		0.005	-
	0207	08/07/91	0001	AL	N		<	0.01		0.01	-
	0207	10/14/92	0001	AL	N		<	0.005		0.005	-
	0514	01/12/89	0001	TA	O		<	0.01		0.01	-
	0515	01/12/89	0001	TA	O		<	0.01		0.01	-
	0515	04/17/91	0001	TA	O		<	0.01		0.01	-
	0515	08/07/91	0001	TA	O		<	0.01		0.01	-
THALLIUM (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	<	0.01		0.01	-
	0207	12/12/90	N001	AL	N		<	0.01		0.01	-
	0208	10/14/92	N001	NR	N		<	0.005		0.005	-
	0210	12/12/90	N001	AL	N		<	0.01		0.01	-
TIN	0206	04/17/91	0001	AL	N	MG/L	<	0.01	I	0.01	-
	0206	08/07/91	0001	AL	N		<	0.01	I	0.01	-
	0206	10/14/92	0001	AL	N		<	0.005		0.005	-
	0207	08/07/91	0001	AL	N		<	0.005		0.005	-
	0207	10/14/92	0001	AL	N		<	0.05	I	0.05	-
	0514	01/12/89	0001	TA	O			0.006		0.005	-
	0515	01/12/89	0001	TA	O			0.008		0.005	-
	0515	04/17/91	0001	TA	O		<	0.01	I	0.01	-
	0515	08/07/91	0001	TA	O		<	0.05	I	0.05	-
TIN (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	<	0.005		0.005	-
	0207	12/12/90	N001	AL	N		<	0.005		0.005	-
	0210	12/12/90	N001	AL	N			0.15		0.005	-
TOTAL DISSOLVED SOLIDS	0206	10/14/92	0001	AL	N	MG/L		3520.	H	10.	-
	0207	10/14/92	0001	AL	N			4100.	H	10.	-
	0514	01/12/89	0001	TA	O			3130.		10.	-
	0515	01/12/89	0001	TA	O			2800.		10.	-
TOTAL KJELDAHL NITROGEN	0206	08/07/91	0001	AL	N	MG/L		1.		1.	-

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SAMPLE ID CODES:

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OTHER PARAMETER VALUE FLAGS:

H - HOLD TIME EXPIRED, VALUE SUSPECT

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

21 M.D.
6/15/93

TABLE 1. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR THE
UC PROCESSING SITE, SLICKROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
URANIUM	0206	04/17/91	0001	AL	N	MG/L	0.195		0.001	-
	0206	08/07/91	0001	AL	N		0.152		0.001	-
	0207	08/07/91	0001	AL	N		0.458		0.001	-
	0514	01/12/89	0001	TA	O		0.379		0.003	-
	0515	01/12/89	0001	TA	O		0.0063		0.003	-
	0515	04/17/91	0001	TA	O		0.046		0.001	-
	0515	08/07/91	0001	TA	O		0.005		0.001	-
URANIUM (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	0.135		0.0003	-
	0207	12/12/90	N001	AL	N		0.450		0.0003	-
	0210	12/12/90	N001	AL	N		0.641		0.0003	-
VANADIUM	0206	04/17/91	0001	AL	N	MG/L	0.10		0.01	-
	0206	08/07/91	0001	AL	N		0.05		0.01	-
	0206	10/14/92	0001	AL	N		0.06		0.01	-
	0207	08/07/91	0001	AL	N		1.01		0.01	-
	0207	10/14/92	0001	AL	N		1.17		0.01	-
	0514	01/12/89	0001	TA	O		0.02		0.01	-
	0515	01/12/89	0001	TA	O		0.40		0.01	-
	0515	04/17/91	0001	TA	O		1.07		0.01	-
	0515	08/07/91	0001	TA	O		0.53		0.01	-
VANADIUM (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	0.23		0.01	-
	0207	12/12/90	N001	AL	N		1.65		0.01	-
	0208	10/14/92	N001	NR	N		0.63		0.01	-
	0210	12/12/90	N001	AL	N		0.61		0.01	-
	0515	10/14/92	N001	TA	O		0.79		0.01	-
ZINC	0206	04/17/91	0001	AL	N	MG/L	0.066		0.005	-
	0206	08/07/91	0001	AL	N		0.009		0.005	-
	0206	10/14/92	0001	AL	N		0.072		0.005	-
	0207	08/07/91	0001	AL	N		0.012		0.005	-
	0207	10/14/92	0001	AL	N		0.036		0.005	-
	0514	01/12/89	0001	TA	O		4.49		0.005	-
	0515	01/12/89	0001	TA	O		0.503		0.005	-
	0515	04/17/91	0001	TA	O		0.777		0.005	-
	0515	08/07/91	0001	TA	O		0.477		0.005	-
ZINC (TOTAL)	0206	12/12/90	N001	AL	N	MG/L	0.06		0.005	-

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PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

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TABLE 1. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR THE
UC PROCESSING SITE, SLICKROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ZINC (TOTAL)	0207	12/12/90	N001	AL	N	MG/L	0.12	0.005	-
	0208	10/14/92	N001	NR	N		0.057	0.005	-
	0210	12/12/90	N001	AL	N		0.09	0.005	-
	0515	10/14/92	N001	TA	O		0.290	0.005	-

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N - UNKNOWN

O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

N001 - UNFILTERED SAMPLE

DATA FILE NAME: M:\DART\SRK01\LYS10005.DAT

22 MJL
6/15/93

23 M.D.
6/16/93

TABLE 2. LYSIMETER WATER QUALITY STATISTICS BY PARAMETER FOR
THE UC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 06/15/93

PARAMETER NAME				UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE
# OF LOC.	MINIMUM	MAXIMUM	MEDIAN	MEAN								
ALKALINITY			MG/L CaCO3									
3	38.3333	292.5000	80.0000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
ALUMINUM			MG/L									
4	** 0.0500	0.0533	** 0.0500	NA	NA	NA	66.7	** 0.0500	0.0533	NONPARAMETRIC	2,4	
ALUMINUM (TOTAL)			MG/L									
5	0.0500	0.1300	0.0500	NA	NA	NA	60.0	0.0500	0.1300	NONPARAMETRIC	2,5	
AMMONIUM			MG/L									
3	0.2000	4.3000	1.6000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
ANTIMONY			MG/L									
4	** 0.0030	0.0158	+ 0.0113	NA	NA	NA	44.4	** 0.0030	0.0158	NONPARAMETRIC	2,4	
ANTIMONY (TOTAL)			MG/L									
4	** 0.0030	0.0070	+ 0.0050	NA	NA	NA	25.0	** 0.0030	0.0070	NONPARAMETRIC	2,4	
ARSENIC			MG/L									
4	0.0050	0.0317	+ 0.0215	NA	NA	NA	66.7	0.0050	0.0317	NONPARAMETRIC	2,4	
ARSENIC (TOTAL)			MG/L									
3	0.0200	0.0600	0.0300	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
BARIUM			MG/L									
4	0.0200	0.0700	+ 0.0417	0.0433	0.0205	0.4742	0.0	** 0.0100	0.0900	NORMAL		

- ** The reported value is the minimum detection limit of the data set
+ The sample size is even, so the median value is the arithmetic average of the two middle values
* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$
1) Data from a minimum of 4 locations must be available for the statistical analysis.
2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.
4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.
5) The stat. range is the 93.8% confidence interval due to a sample size of 5. The maximum is the 96.9% one sided confidence int.
Note the data at each location was averaged before the statistical calculations were performed

15

TABLE 2. LYSIMETER WATER QUALITY STATISTICS BY PARAMETER FOR
THE UC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 06/15/93

PARAMETER NAME					UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE
# OF LOC.	MINIMUM	MAXIMUM	MEDIAN	MEAN									
BARIUM (TOTAL)					MG/L								
5	** 0.0100	0.0500	0.0500	NA		NA	NA	80.0	** 0.0100	0.0500	NONPARAMETRIC	2,5	
BERYLLIUM					MG/L								
4	** 0.0050	0.0050	** 0.0050	NA		NA	NA	100.0	** 0.0050	0.0050	NONPARAMETRIC	2,4	
BERYLLIUM (TOTAL)					MG/L								
3	** 0.0100	** 0.0100	** 0.0100	NA		NA	NA	100.0	NA	NA	UNKNOWN	1	
BORON					MG/L								
3	0.2650	0.5000	0.4300	NA		NA	NA	0.0	NA	NA	UNKNOWN	1	
BORON (TOTAL)					MG/L								
3	0.2000	0.5000	0.5000	NA		NA	NA	0.0	NA	NA	UNKNOWN	1	
BROMIDE					MG/L								
4	** 0.1000	0.5000	+ 0.1500	NA		NA	NA	100.0	** 0.1000	0.5000	NONPARAMETRIC	2,4	
BROMIDE (TOTAL)					MG/L								
2	** 0.1000	** 0.1000	** 0.1000	NA		NA	NA	100.0	NA	NA	UNKNOWN	1	
CADMIUM					MG/L								
4	0.0012	0.6520	+ 0.0843	NA		NA	NA	33.3	0.0012	0.6520	NONPARAMETRIC	2,4	
CADMIUM (TOTAL)					MG/L								
5	** 0.0010	0.0530	0.0025	NA		NA	NA	40.0	** 0.0010	0.0530	NONPARAMETRIC	2,5	

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) Data from a minimum of 4 locations must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.

5) The stat. range is the 93.8% confidence interval due to a sample size of 5. The maximum is the 96.9% one sided confidence int.

Note the data at each location was averaged before the statistical calculations were performed

25 122
6/16/92

TABLE 2. LYSIMETER WATER QUALITY STATISTICS BY PARAMETER FOR
THE UC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 06/15/93

PARAMETER NAME				UNITS					STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF LOC.	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS		MINIMUM	MAXIMUM *		
CALCIUM				MG/L								
4	474.6667	745.0000	+ 631.5000	620.6667	119.3510	0.1923	0.0		349.6802	891.6532	NORMAL	
CALCIUM (TOTAL)				MG/L								
5	350.0000	697.0000	616.0000	569.8000	148.7538	0.2611	0.0		320.5318	819.0682	NORMAL	
CHLORIDE				MG/L								
4	14.0000	89.0000	+ 38.5000	45.0000	32.4654	0.7215	0.0	**	1.0000	118.7126	NORMAL	
CHLORIDE (TOTAL)				MG/L								
2	92.0000	116.0000	+ 104.0000	NA	NA	NA	0.0		NA	NA	UNKNOWN	1
CHROMIUM				MG/L								
4	** 0.0100	** 0.0100	** 0.0100	NA	NA	NA	88.9	**	0.0100	** 0.0100	NONPARAMETRIC	2,4
CHROMIUM (TOTAL)				MG/L								
5	** 0.0100	0.0200	** 0.0100	NA	NA	NA	80.0	**	0.0100	0.0200	NONPARAMETRIC	2,5
COBALT				MG/L								
4	** 0.0300	0.2800	** 0.0300	NA	NA	NA	71.4	**	0.0300	0.2800	NONPARAMETRIC	2,4
COBALT (TOTAL)				MG/L								
3	** 0.0500	** 0.0500	** 0.0500	NA	NA	NA	100.0		NA	NA	UNKNOWN	1
COPPER				MG/L								
4	0.0200	36.7000	+ 0.9100	0.4188	38.0402	NA	0.0	**	0.0100	1621.7224	LOGNORMAL	7,8

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) Data from a minimum of 4 locations must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.

5) The stat. range is the 93.8% confidence interval due to a sample size of 5. The maximum is the 96.9% one sided confidence int.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

Note the data at each location was averaged before the statistical calculations were performed

TABLE 2. LYSIMETER WATER QUALITY STATISTICS BY PARAMETER FOR
THE UC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 06/15/93

PARAMETER NAME				UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF LOC.	MINIMUM	MAXIMUM	MEDIAN	MEAN					MINIMUM	MAXIMUM *		
COPPER (TOTAL)				MG/L								
5	0.0100	1.1100	0.0500	NA	NA	NA	20.0	0.0100	1.1100	NONPARAMETRIC	2,5	
FLUORIDE				MG/L								
2	0.2000	0.7000	+ 0.4500	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
FLUORIDE (TOTAL)				MG/L								
2	0.2000	0.3000	+ 0.2500	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
GROSS ALPHA				PCI/L								
3	72.8000	1026.0000	293.0000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
GROSS ALPHA (TOTAL)				PCI/L								
2	120.0000	430.0000	+ 275.0000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
GROSS BETA				PCI/L								
3	54.7000	379.0000	170.0000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
GROSS BETA (TOTAL)				PCI/L								
2	58.0000	190.0000	+ 124.0000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
IRON				MG/L								
4	** 0.0300	0.0800	** 0.0300	NA	NA	NA	77.8	** 0.0300	0.0800	NONPARAMETRIC	2,4	
IRON (TOTAL)				MG/L								
5	0.0400	0.2700	0.1100	0.1320	0.0976	0.7392	0.0	** 0.0300	0.2955	NORMAL		

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+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) Data from a minimum of 4 locations must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.

5) The stat. range is the 93.8% confidence interval due to a sample size of 5. The maximum is the 96.9% one sided confidence int.

Note the data at each location was averaged before the statistical calculations were performed

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6/16/93

TABLE 2. LYSIMETER WATER QUALITY STATISTICS BY PARAMETER FOR
THE UC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 06/15/93

PARAMETER NAME				UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF LOC.	MINIMUM	MAXIMUM	MEDIAN	MEAN					MINIMUM	MAXIMUM *		
LEAD				MG/L								
4	0.0063	0.0917	+ 0.0091	NA	NA	NA	77.8		0.0063	0.0917	NONPARAMETRIC	2,4
LEAD (TOTAL)				MG/L								
5	** 0.0030	0.0330	0.0100	NA	NA	NA	40.0	**	0.0030	0.0330	NONPARAMETRIC	2,5
MAGNESIUM				MG/L								
4	129.0000	251.0000	+ 150.8333	170.4167	57.4472	0.3371	0.0		39.9829	300.8504	NORMAL	
MAGNESIUM (TOTAL)				MG/L								
5	120.0000	257.0000	134.0000	174.2000	64.1810	0.3684	0.0		66.6513	281.7487	NORMAL	
MANGANESE				MG/L								
4	** 0.0100	1.1200	+ 0.2392	NA	NA	NA	55.6	**	0.0100	1.1200	NONPARAMETRIC	2,4
MANGANESE (TOTAL)				MG/L								
5	** 0.0100	0.3600	0.0300	NA	NA	NA	20.0	**	0.0100	0.3600	NONPARAMETRIC	2,5
MERCURY				MG/L								
2	** 0.0002	** 0.0002	** 0.0002	NA	NA	NA	100.0		NA	NA	UNKNOWN	1
MERCURY (TOTAL)				MG/L								
3	** 0.0002	0.0002	0.0002	NA	NA	NA	33.3		NA	NA	UNKNOWN	1
MOLYBDENUM				MG/L								
4	0.1933	20.7333	+ 8.0050	3.6322	8.1321	NA	0.0		0.0312	423.4416	LOGNORMAL	7,8

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7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

Note the data at each location was averaged before the statistical calculations were performed

TABLE 2. LYSIMETER WATER QUALITY STATISTICS BY PARAMETER FOR
THE UC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 06/15/93

PARAMETER NAME				UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF LOC.	MINIMUM	MAXIMUM	MEDIAN	MEAN					MINIMUM	MAXIMUM *		
MOLYBDENUM (TOTAL)				MG/L								
5	0.4900	30.6000	13.6000	13.6680		10.9365	0.8002	0.0	** 0.0100	31.9945	NORMAL	
NET GROSS ALPHA ***				PCI/L								
3	-31.4700	1022.5700	-21.1900	NA		NA	NA	0.0	NA	NA	UNKNOWN	1
NET GROSS ALPHA (TOTAL) ****				PCI/L								
2	-9.7300	27.3900	+ 8.8300	NA		NA	NA	0.0	NA	NA	UNKNOWN	1
NICKEL				MG/L								
4	** 0.0400	0.1700	** 0.0400	NA		NA	NA	88.9	** 0.0400	0.1700	NONPARAMETRIC	2,4
NICKEL (TOTAL)				MG/L								
5	** 0.0400	** 0.0400	** 0.0400	NA		NA	NA	100.0	** 0.0400	** 0.0400	NONPARAMETRIC	2,5
NITRATE				MG/L								
3	40.0000	744.0000	210.0000	NA		NA	NA	0.0	NA	NA	UNKNOWN	1
NITRITE AND NITRATE				MG/L								
1	168.0000	168.0000	168.0000	NA		NA	NA	0.0	NA	NA	UNKNOWN	1
PH				SU								
6	6.2100	7.8100	+ 7.3224	NA		NA	NA	0.0	NA	NA	UNKNOWN	

*** NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

**** NET GROSS ALPHA (TOTAL) (TOTAL GROSS ALPHA - TOTAL URANIUM)

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THE UC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 06/15/93

PARAMETER NAME					UNITS								
# OF LOC.	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE		
								MINIMUM	MAXIMUM *				
PHOSPHATE					MG/L								
2	** 0.1000	** 0.1000	** 0.1000	NA	NA	NA	100.0	NA	NA	UNKNOWN	1		
PHOSPHATE (TOTAL)					MG/L								
2	** 0.1000	** 0.1000	** 0.1000	NA	NA	NA	100.0	NA	NA	UNKNOWN	1		
POTASSIUM					MG/L								
4	3.6333	6.3000	+ 4.2867	4.6267	1.1707	0.2530	0.0	1.9685	7.2848	NORMAL			
POTASSIUM (TOTAL)					MG/L								
3	8.2000	28.4000	10.6000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1		
REDOX POTENTIAL					mVOLTS								
2	324.7000	406.3000	+ 365.5000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1		
SELENIUM					MG/L								
4	0.4133	16.0000	+ 3.5767	2.7808	4.8313	NA	0.0	0.0778	99.3894	LOGNORMAL	7,8		
SELENIUM (TOTAL)					MG/L								
5	0.3900	21.6000	7.0000	4.1438	5.3012	NA	0.0	0.2533	67.8015	LOGNORMAL	7,8		
SILICA - SiO2					MG/L								
4	48.0000	70.4000	+ 55.2500	57.2250	10.7177	0.1873	0.0	32.8905	81.5595	NORMAL			
SILICA - SiO2 (TOTAL)					MG/L								
5	48.0000	70.7000	55.9000	58.3200	9.3567	0.1604	0.0	42.6410	73.9990	NORMAL			

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6/16/93

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6/16/93

TABLE 2. LYSIMETER WATER QUALITY STATISTICS BY PARAMETER FOR
THE UC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 06/15/93

PARAMETER NAME					UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF LOC.	MINIMUM	MAXIMUM	MEDIAN	MEAN						MINIMUM	MAXIMUM *		
SILVER					MG/L								
4	** 0.0100	** 0.0100	** 0.0100	NA		NA	NA	100.0	** 0.0100	** 0.0100		NONPARAMETRIC	2,4
SILVER (TOTAL)					MG/L								
3	** 0.0100	** 0.0100	** 0.0100	NA		NA	NA	100.0	NA	NA		UNKNOWN	1
SODIUM					MG/L								
4	25.2000	443.5667	+ 105.5833	98.8401		3.4907	NA	0.0	5.7842	1688.9879		LOGNORMAL	7,8
SODIUM (TOTAL)					MG/L								
5	63.1000	510.0000	149.0000	199.8200		180.3521	0.9026	0.0	** 0.0020	502.0376		NORMAL	
SPECIFIC CONDUCTANCE					UMHO/CM								
5	1825.0000	4100.0000	3916.6667	3353.0000		969.2440	0.2891	0.0	1728.8288	4977.1712		NORMAL	
STRONTIUM					MG/L								
4	3.8000	6.2200	+ 5.1500	5.0800		1.0838	0.2133	0.0	2.6192	7.5408		NORMAL	
STRONTIUM (TOTAL)					MG/L								
5	5.3000	6.4000	5.7000	5.8020		0.5315	0.0916	0.0	4.9113	6.6927		NORMAL	
SULFATE					MG/L								
4	1500.0000	2030.0000	+ 1855.0000	1810.0000		222.8602	0.1231	0.0	1303.9959	2316.0041		NORMAL	
SULFATE (TOTAL)					MG/L								
2	1290.0000	2460.0000	+ 1875.0000	NA		NA	NA	0.0	NA	NA		UNKNOWN	1

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THE UC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 06/15/93

PARAMETER NAME					UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF LOC.	MINIMUM	MAXIMUM	MEDIAN	MEAN						MINIMUM	MAXIMUM *		
SULFIDE					MG/L								
2	** 0.1000	** 0.1000	** 0.1000	NA		NA	NA	100.0		NA	NA	UNKNOWN	1
TEMPERATURE					C - DEGREE								
6	6.5000	17.0000	+ 13.3500	12.9061		4.0380	0.3129	0.0		7.3589	18.4533	NORMAL	
THALLIUM					MG/L								
4	** 0.0050	0.0108	+ 0.0050	NA		NA	NA	100.0	** 0.0050	0.0108		NONPARAMETRIC	2,4
THALLIUM (TOTAL)					MG/L								
4	** 0.0050	0.0050	+ 0.0050	NA		NA	NA	100.0	** 0.0050	0.0050		NONPARAMETRIC	2,4
TIN					MG/L								
4	** 0.0050	0.0138	+ 0.0093	NA		NA	NA	77.8	** 0.0050	0.0138		NONPARAMETRIC	2,4
TIN (TOTAL)					MG/L								
3	** 0.0050	0.1500	** 0.0050	NA		NA	NA	66.7		NA	NA	UNKNOWN	1
TOTAL DISSOLVED SOLIDS					MG/L								
4	2800.0000	4100.0000	+ 3325.0000	3387.5000		558.7710	0.1650	0.0		2118.8105	4656.1895	NORMAL	
TOTAL KJELDAHL NITROGEN					MG/L								
1	1.0000	1.0000	1.0000	NA		NA	NA	0.0		NA	NA	UNKNOWN	1
URANIUM					MG/L								
4	0.0191	0.4580	+ 0.2762	0.2574		0.1990	0.7733	0.0	** 0.0010	0.7093		NORMAL	

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THE UC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
01/12/89 TO 10/14/92
REPORT DATE: 06/15/93

PARAMETER NAME				UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE
# OF LOC.	MINIMUM	MAXIMUM	MEDIAN	MEAN								
URANIUM (TOTAL)				MG/L								
3	0.1350	0.6410	0.4500	NA		NA	NA	0.0	NA	NA	UNKNOWN	1
VANADIUM				MG/L								
4	0.0200	1.0900 +	0.3683	0.1786		6.5967	NA	0.0	**	0.0100	12.9463	LOGNORMAL 7,8
VANADIUM (TOTAL)				MG/L								
5	0.2300	1.6500	0.6300	0.7820		0.5270	0.6739	0.0	**	0.0100	1.6651	NORMAL
ZINC				MG/L								
4	0.0240	4.4900 +	0.3173	0.2358		10.9618	NA	0.0	**	0.0050	54.1540	LOGNORMAL 7,8
ZINC (TOTAL)				MG/L								
5	0.0570	0.2900	0.0900	0.1234		0.0966	0.7827	0.0	**	0.0050	0.2852	NORMAL

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INPUT DATA FILENAME: M:\DART\SRK01\LYS10005.DAT

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TABLE 3. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR
THE NC PROCESSING SITE, SLICKROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	0202	12/11/91	0001	AL	N	MG/L CaCO3		312		-	-
	0203	12/12/90	N001	AL	N			441.		-	-
	0203	04/17/91	0001	AL	N			390.		-	-
	0203	12/11/91	0001	AL	N			449		-	-
	0204	08/07/91	0001	AL	N			43		-	-
	0204	12/11/91	0001	AL	N			42		-	-
	0205	12/11/91	0001	AL	N			681		-	-
ALUMINUM	0202	04/17/91	0001	AL	N	MG/L		0.06		0.05	-
	0202	12/11/91	0001	AL	N		<	0.05		0.05	-
	0202	10/14/92	0001	AL	N			0.05		0.05	-
	0203	04/17/91	0001	AL	N			0.10		0.05	-
	0203	08/07/91	0001	AL	N			0.10		0.05	-
	0203	12/11/91	0001	AL	N			0.11		0.05	-
	0203	10/14/92	0001	AL	N			0.09		0.05	-
	0204	04/17/91	0001	AL	N			0.09		0.05	-
	0204	08/07/91	0001	AL	N			0.12		0.05	-
	0204	12/11/91	0001	AL	N			0.15		0.05	-
	0204	10/14/92	0001	AL	N			0.37		0.05	-
	0205	04/17/91	0001	AL	N		<	0.2	I	0.2	-
	0205	12/11/91	0001	AL	N			0.21		0.05	-
	0205	10/14/92	0001	AL	N		<	0.2	I	0.2	-
ALUMINUM (TOTAL)	0203	12/12/90	N001	AL	N	MG/L	<	0.1		0.1	-
	0204	12/12/90	N001	AL	N		<	0.1		0.1	-
ANTIMONY	0202	04/17/91	0001	AL	N	MG/L		0.030		0.01	-
	0202	12/11/91	0001	AL	N		<	0.03	I	0.03	-
	0202	10/14/92	0001	AL	N		<	0.01	I	0.01	-
	0203	04/17/91	0001	AL	N		<	0.02	I	0.02	-
	0203	08/07/91	0001	AL	N		<	0.03	I	0.03	-
	0203	12/11/91	0001	AL	N		<	0.03	I	0.03	-
	0203	10/14/92	0001	AL	N		<	0.02	I	0.02	-
	0204	04/17/91	0001	AL	N		<	0.003		0.003	-
	0204	08/07/91	0001	AL	N			0.015		0.015	-
	0204	12/11/91	0001	AL	N		<	0.03	I	0.03	-
	0204	10/14/92	0001	AL	N		<	0.003		0.003	-
	0205	04/17/91	0001	AL	N		<	0.03	I	0.03	-
	0205	12/11/91	0001	AL	N		<	0.2	I	0.2	-
	0205	10/14/92	0001	AL	N		<	0.02	I	0.02	-

MATERIAL OF SAMPLING CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
N - UNKNOWN

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)
N001 - UNFILTERED SAMPLE

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

TABLE 3. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR
THE NC PROCESSING SITE, SLICKROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ANTIMONY (TOTAL)	0203	12/12/90	N001	AL	N	MG/L	< 0.003		0.003	-
	0204	12/12/90	N001	AL	N		0.003		0.003	-
ARSENIC	0202	04/17/91	0001	AL	N	MG/L	0.03		0.01	-
	0202	12/11/91	0001	AL	N		< 0.1	I	0.1	-
	0202	10/14/92	0001	AL	N		< 0.2	I	0.2	-
	0203	04/17/91	0001	AL	N		< 0.03	I	0.03	-
	0203	08/07/91	0001	AL	N		< 0.1	I	0.1	-
	0203	12/11/91	0001	AL	N		< 0.1	I	0.1	-
	0203	10/14/92	0001	AL	N		< 0.1	I	0.1	-
	0204	04/17/91	0001	AL	N		0.05		0.01	-
	0204	08/07/91	0001	AL	N		< 0.1	I	0.1	-
	0204	12/11/91	0001	AL	N		< 0.1	I	0.1	-
	0204	10/14/92	0001	AL	N		< 0.3	I	0.3	-
	0205	04/17/91	0001	AL	N		< 0.05	I	0.05	-
	0205	12/11/91	0001	AL	N		< 1.	I	1.	-
	0205	10/14/92	0001	AL	N		< 0.3	I	0.3	-
ARSENIC (TOTAL)	0203	12/12/90	N001	AL	N	MG/L	0.04		0.01	-
	0204	12/12/90	N001	AL	N		0.06		0.01	-
BARIUM	0202	04/17/91	0001	AL	N	MG/L	0.07		0.01	-
	0202	12/11/91	0001	AL	N		0.05		0.01	-
	0202	10/14/92	0001	AL	N		0.05		0.01	-
	0203	04/17/91	0001	AL	N		0.04		0.01	-
	0203	08/07/91	0001	AL	N		0.04		0.01	-
	0203	12/11/91	0001	AL	N		0.04		0.01	-
	0203	10/14/92	0001	AL	N		0.03		0.01	-
	0204	04/17/91	0001	AL	N		0.04		0.01	-
	0204	08/07/91	0001	AL	N		0.04		0.01	-
	0204	12/11/91	0001	AL	N		0.04		0.01	-
	0204	10/14/92	0001	AL	N		0.04		0.01	-
	0205	04/17/91	0001	AL	N		< 0.05	I	0.05	-
	0205	12/11/91	0001	AL	N		0.02		0.01	-
	0205	10/14/92	0001	AL	N		0.01		0.01	-
BARIUM (TOTAL)	0203	12/12/90	N001	AL	N	MG/L	< 0.1		0.1	-
	0204	12/12/90	N001	AL	N		< 0.1		0.1	-
BERYLLIUM	0202	04/17/91	0001	AL	N	MG/L	0.008		0.005	-

MATERIAL OF SAMPLING CODE:
AL - ALLUVIUM

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

FLOW RELATIONSHIP CODE:
N - UNKNOWN

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)
N001 - UNFILTERED SAMPLE

39 21.2
6/15/93

32.

35 J.D.
6/15/9.

TABLE 3. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR
THE NC PROCESSING SITE, SLICKROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BERYLLIUM	0202	12/11/91	0001	AL	N	MG/L	< 0.005		0.005	-
	0203	04/17/91	0001	AL	N		0.005		0.005	-
	0203	08/07/91	0001	AL	N		< 0.005		0.005	-
	0203	12/11/91	0001	AL	N		< 0.005		0.005	-
	0204	04/17/91	0001	AL	N		0.043		0.005	-
	0204	08/07/91	0001	AL	N		0.032		0.005	-
	0204	12/11/91	0001	AL	N		< 0.05	I	0.05	-
	0205	04/17/91	0001	AL	N		< 0.03	I	0.03	-
	0205	12/11/91	0001	AL	N		< 0.005		0.005	-
BERYLLIUM (TOTAL)	0203	12/12/90	N001	AL	N	MG/L	0.02		0.01	-
	0204	12/12/90	N001	AL	N		0.05		0.01	-
BORON	0202	04/17/91	0001	AL	N	MG/L	0.81		0.05	-
	0202	12/11/91	0001	AL	N		0.87		0.05	-
	0203	04/17/91	0001	AL	N		1.52		0.05	-
	0203	12/11/91	0001	AL	N		1.95		0.05	-
	0204	04/17/91	0001	AL	N		0.06		0.05	-
	0204	12/11/91	0001	AL	N		0.31		0.05	-
	0205	04/17/91	0001	AL	N		1.3		0.2	-
	0205	12/11/91	0001	AL	N		1.50		0.05	-
BORON (TOTAL)	0203	12/12/90	N001	AL	N	MG/L	1.7		0.1	-
	0204	12/12/90	N001	AL	N		0.1		0.1	-
BROMIDE	0202	10/14/92	0001	AL	N	MG/L	< 7.	I	7.	-
	0203	10/14/92	0001	AL	N		< 15.	I	15.	-
	0204	10/14/92	0001	AL	N		< 0.3	I	0.3	-
	0205	10/14/92	0001	AL	N		< 30.	I	30.	-
BROMIDE (TOTAL)	0202	12/12/90	N001	AL	N	MG/L	1.4		0.01	-
	0203	12/12/90	N001	AL	N		3.2		0.01	-
	0204	12/12/90	N001	AL	N		< 0.1	c	0.1	-
	0205	12/12/90	N001	AL	N		3.3		0.01	-
CADMIUM	0202	04/17/91	0001	AL	N	MG/L	0.006		0.001	-
	0202	12/11/91	0001	AL	N		< 0.01	I	0.01	-
	0202	10/14/92	0001	AL	N		0.12		0.03	-
	0203	04/17/91	0001	AL	N		0.001		0.001	-

MATERIAL OF SAMPLING CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
N - UNKNOWN

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)
N001 - UNFILTERED SAMPLE

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
c - CHANGED DETECTION LIMIT

56 D2
6/15/9

TABLE 3. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR
THE NC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CADMIUM	0203	08/07/91	0001	AL	N	MG/L		0.001		0.001	-
	0203	12/11/91	0001	AL	N		<	0.01	I	0.01	-
	0203	10/14/92	0001	AL	N			0.18		0.03	-
	0204	04/17/91	0001	AL	N			0.008		0.001	-
	0204	08/07/91	0001	AL	N		<	0.03	I	0.03	-
	0204	12/11/91	0001	AL	N		<	0.01	I	0.01	-
	0204	10/14/92	0001	AL	N		<	0.02	I	0.02	-
	0205	04/17/91	0001	AL	N			0.003		0.001	-
	0205	12/11/91	0001	AL	N		<	0.01	I	0.01	-
	0205	10/14/92	0001	AL	N			0.23		0.03	-
CADMIUM (TOTAL)	0203	12/12/90	N001	AL	N	MG/L	<	0.001		0.001	-
	0204	12/12/90	N001	AL	N			0.002		0.001	-
CALCIUM	0202	04/17/91	0001	AL	N	MG/L		445.		2.	-
	0202	12/11/91	0001	AL	N			400.		0.5	-
	0202	10/14/92	0001	AL	N			413.		0.5	-
	0203	04/17/91	0001	AL	N			424.		2.	-
	0203	08/07/91	0001	AL	N			427.		0.5	-
	0203	12/11/91	0001	AL	N			427.		0.5	-
	0203	10/14/92	0001	AL	N			407.		0.5	-
	0204	04/17/91	0001	AL	N			582.		5.	-
	0204	08/07/91	0001	AL	N			634.		5.	-
	0204	12/11/91	0001	AL	N			605.		2.	-
	0204	10/14/92	0001	AL	N			546.		5.	-
	0205	04/17/91	0001	AL	N			505.		2.	-
	0205	12/11/91	0001	AL	N			450.		0.5	-
	0205	10/14/92	0001	AL	N			436.		0.5	-
CALCIUM (TOTAL)	0203	12/12/90	N001	AL	N	MG/L		369.		0.01	-
	0204	12/12/90	N001	AL	N			516.		0.01	-
CHLORIDE	0202	10/14/92	0001	AL	N	MG/L		960.		10.	-
	0203	10/14/92	0001	AL	N			2160.		20.	-
	0204	10/14/92	0001	AL	N			24.		1.	-
	0205	10/14/92	0001	AL	N			4650.		1.	-
CHLORIDE (TOTAL)	0202	12/12/90	N001	AL	N	MG/L		902.		1.	-
	0203	12/12/90	N001	AL	N			2030.		1.	-
	0204	12/12/90	N001	AL	N			14.		1.	-

MATERIAL OF SAMPLING CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
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PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)
N001 - UNFILTERED SAMPLE

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

3

37 M.L.
6/15/93

TABLE 3. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR
THE NC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CHLORIDE (TOTAL)	0205	12/12/90	N001	AL	N	MG/L		4060.		1.	-
CHROMIUM	0202	04/17/91	0001	AL	N	MG/L	<	0.01		0.01	-
	0202	12/11/91	0001	AL	N		<	0.01		0.01	-
	0202	10/14/92	0001	AL	N		<	0.01		0.01	-
	0203	04/17/91	0001	AL	N		<	0.01		0.01	-
	0203	08/07/91	0001	AL	N		<	0.01		0.01	-
	0203	12/11/91	0001	AL	N		<	0.01		0.01	-
	0203	10/14/92	0001	AL	N		<	0.01		0.01	-
	0204	04/17/91	0001	AL	N		<	0.01		0.01	-
	0204	08/07/91	0001	AL	N		<	0.01		0.01	-
	0204	12/11/91	0001	AL	N		<	0.01		0.01	-
	0204	10/14/92	0001	AL	N		<	0.02		0.01	-
	0205	04/17/91	0001	AL	N		<	0.05	I	0.05	-
	0205	12/11/91	0001	AL	N		<	0.1	I	0.1	-
	0205	10/14/92	0001	AL	N		<	0.05	I	0.05	-
CHROMIUM (TOTAL)	0203	12/12/90	N001	AL	N	MG/L	<	0.01		0.01	-
	0204	12/12/90	N001	AL	N		<	0.01		0.01	-
COBALT	0202	04/17/91	0001	AL	N	MG/L	<	0.03		0.03	-
	0202	12/11/91	0001	AL	N		<	0.03		0.03	-
	0203	04/17/91	0001	AL	N		<	0.03		0.03	-
	0203	08/07/91	0001	AL	N		<	0.03		0.03	-
	0203	12/11/91	0001	AL	N		<	0.03		0.03	-
	0204	04/17/91	0001	AL	N		<	0.03		0.03	-
	0204	08/07/91	0001	AL	N		<	0.03		0.03	-
	0204	12/11/91	0001	AL	N		<	0.03		0.03	-
	0205	04/17/91	0001	AL	N		<	0.1	I	0.1	-
	0205	12/11/91	0001	AL	N		<	0.03		0.03	-
COBALT (TOTAL)	0203	12/12/90	N001	AL	N	MG/L	<	0.05		0.05	-
	0204	12/12/90	N001	AL	N		<	0.05		0.05	-
COPPER	0202	04/17/91	0001	AL	N	MG/L		0.06		0.01	-
	0202	12/11/91	0001	AL	N			0.05		0.01	-
	0202	10/14/92	0001	AL	N			0.04		0.01	-
	0203	04/17/91	0001	AL	N			0.03		0.01	-
	0203	08/07/91	0001	AL	N			0.05		0.01	-
	0203	12/11/91	0001	AL	N			0.06		0.01	-

MATERIAL OF SAMPLING CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
N - UNKNOWN

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)
N001 - UNFILTERED SAMPLE

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

TABLE 3. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR
THE NC PROCESSING SITE, SLICKROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
COPPER	0203	10/14/92	0001	AL	N	MG/L		0.03		0.01	-
	0204	04/17/91	0001	AL	N			0.03		0.01	-
	0204	08/07/91	0001	AL	N			0.06		0.01	-
	0204	12/11/91	0001	AL	N			0.09		0.01	-
	0204	10/14/92	0001	AL	N			0.10		0.01	-
	0205	04/17/91	0001	AL	N			0.05		0.05	-
	0205	12/11/91	0001	AL	N			0.08		0.01	-
	0205	10/14/92	0001	AL	N			0.05		0.05	-
COPPER (TOTAL)	0203	12/12/90	N001	AL	N	MG/L	<	0.02		0.02	-
	0204	12/12/90	N001	AL	N			0.03		0.02	-
FLUORIDE	0202	10/14/92	0001	AL	N	MG/L		3.0		0.4	-
	0203	10/14/92	0001	AL	N			1.5		0.2	-
	0204	10/14/92	0001	AL	N			0.2		0.1	-
	0205	10/14/92	0001	AL	N			2.1		0.2	-
FLUORIDE (TOTAL)	0202	12/12/90	N001	AL	N	MG/L		1.2		0.1	-
	0203	12/12/90	N001	AL	N			0.7		0.1	-
	0204	12/12/90	N001	AL	N			0.3		0.1	-
	0205	12/12/90	N001	AL	N			0.7		0.1	-
GROSS ALPHA	0202	04/17/91	0001	AL	N	PCI/L		2031.		1.	281.
	0203	04/17/91	0001	AL	N			4095.		1.	431.
	0204	04/17/91	0001	AL	N			45.3		1.	18.0
	0205	04/17/91	0001	AL	N			7781.		1.	535.
GROSS ALPHA (TOTAL)	0203	12/12/90	N001	AL	N	PCI/L		4600.		1.	500.
	0204	12/12/90	N001	AL	N			67.		1.	26.
GROSS BETA	0202	04/17/91	0001	AL	N	PCI/L		954.		0.5	119.
	0203	04/17/91	0001	AL	N			2855.		0.5	171.
	0204	04/17/91	0001	AL	N			34.7		0.5	10.3
	0205	04/17/91	0001	AL	N			4895.		0.5	215.
GROSS BETA (TOTAL)	0203	12/12/90	N001	AL	N	PCI/L		3100.		0.5	200.
	0204	12/12/90	N001	AL	N			74.		0.5	19.
IRON	0202	04/17/91	0001	AL	N	MG/L	<	0.03		0.03	-
	0202	12/11/91	0001	AL	N			0.03		0.03	-
	0202	10/14/92	0001	AL	N		<	0.03		0.03	-

MATERIAL OF SAMPLING CODE:
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FLOW RELATIONSHIP CODE:
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PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
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TABLE 3. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR
THE HC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
IRON	0203	04/17/91	0001	AL	N	MG/L	<	0.03		0.03	-
	0203	08/07/91	0001	AL	N		<	0.03		0.03	-
	0203	12/11/91	0001	AL	N			0.06		0.03	-
	0203	10/14/92	0001	AL	N		<	0.03		0.03	-
	0204	04/17/91	0001	AL	N		<	0.03		0.03	-
	0204	08/07/91	0001	AL	N		<	0.03		0.03	-
	0204	12/11/91	0001	AL	N		<	0.03		0.03	-
	0204	10/14/92	0001	AL	N		<	0.03		0.03	-
	0205	04/17/91	0001	AL	N		<	0.1	I	0.1	-
	0205	12/11/91	0001	AL	N		<	0.03		0.03	-
	0205	10/14/92	0001	AL	N		<	0.1	I	0.1	-
	0205	10/14/92	0001	AL	N		<	0.1	I	0.1	-
IRON (TOTAL)	0203	12/12/90	N001	AL	N	MG/L		0.78		0.03	-
	0204	12/12/90	N001	AL	N			0.09		0.03	-
LEAD	0202	04/17/91	0001	AL	N	MG/L	<	0.03	I	0.03	-
	0202	12/11/91	0001	AL	N		<	0.3	I	0.3	-
	0202	10/14/92	0001	AL	N		<	0.02	I	0.02	-
	0203	04/17/91	0001	AL	N		<	0.03	I	0.03	-
	0203	08/07/91	0001	AL	N		<	0.3	I	0.3	-
	0203	12/11/91	0001	AL	N		<	0.05	I	0.05	-
	0203	10/14/92	0001	AL	N		<	0.02	I	0.02	-
	0204	04/17/91	0001	AL	N		<	0.03	I	0.03	-
	0204	08/07/91	0001	AL	N		<	0.03	I	0.03	-
	0204	12/11/91	0001	AL	N		<	0.05	I	0.05	-
	0204	10/14/92	0001	AL	N		<	0.003	I	0.003	-
	0205	04/17/91	0001	AL	N		<	0.03	I	0.03	-
	0205	12/11/91	0001	AL	N		<	0.05	I	0.05	-
	0205	10/14/92	0001	AL	N		<	0.02	I	0.02	-
	0205	10/14/92	0001	AL	N		<	0.02	I	0.02	-
LEAD (TOTAL)	0203	12/12/90	N001	AL	N	MG/L		0.03		0.01	-
	0204	12/12/90	N001	AL	N			0.01		0.01	-
MAGNESIUM	0202	04/17/91	0001	AL	N	MG/L		1040.		2.	-
	0202	12/11/91	0001	AL	N			1280.		2.	-
	0202	10/14/92	0001	AL	N			1240.		2.	-
	0203	04/17/91	0001	AL	N			1720.		2.	-
	0203	08/07/91	0001	AL	N			1840.		5.	-
	0203	12/11/91	0001	AL	N			1990.		5.	-
	0203	10/14/92	0001	AL	N			1810.		2.	-
	0203	10/14/92	0001	AL	N			1810.		2.	-

MATERIAL OF SAMPLING CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
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PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
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I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

39 LL
6/15/93

TABLE 3. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR
THE NC PROCESSING SITE, SLICKROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MAGNESIUM	0204	04/17/91	0001	AL	N	MG/L		15.9		0.1	-
	0204	08/07/91	0001	AL	N			14.9		0.1	-
	0204	12/11/91	0001	AL	N			343.		0.5	-
	0204	10/14/92	0001	AL	N			13.2		0.1	-
	0205	04/17/91	0001	AL	N			2230.		2.	-
	0205	12/11/91	0001	AL	N			2320.		5.	-
	0205	10/14/92	0001	AL	N			2190.		2.	-
MAGNESIUM (TOTAL)	0203	12/12/90	N001	AL	N	MG/L		1790.		0.001	-
	0204	12/12/90	N001	AL	N			18.2		0.001	-
MANGANESE	0202	04/17/91	0001	AL	N	MG/L	<	0.05	I	0.05	-
	0202	12/11/91	0001	AL	N		<	0.1	I	0.1	-
	0202	10/14/92	0001	AL	N		<	0.05	I	0.05	-
	0203	04/17/91	0001	AL	N		<	0.05	I	0.05	-
	0203	08/07/91	0001	AL	N		<	0.1	I	0.1	-
	0203	12/11/91	0001	AL	N		<	0.1	I	0.1	-
	0203	10/14/92	0001	AL	N		<	0.05	I	0.05	-
	0204	04/17/91	0001	AL	N			0.19		0.01	-
	0204	08/07/91	0001	AL	N			0.18		0.01	-
	0204	12/11/91	0001	AL	N			0.13		0.01	-
	0204	10/14/92	0001	AL	N			0.16		0.01	-
	0205	04/17/91	0001	AL	N		<	0.1	I	0.1	-
	0205	12/11/91	0001	AL	N		<	0.2	I	0.2	-
	0205	10/14/92	0001	AL	N		<	0.05	I	0.05	-
MANGANESE (TOTAL)	0203	12/12/90	N001	AL	N	MG/L		0.04		0.01	-
	0204	12/12/90	N001	AL	N			0.14		0.01	-
MERCURY	0202	12/11/91	0001	AL	N	MG/L		-	J	-	-
	0203	12/11/91	0001	AL	N			-	J	-	-
	0204	12/11/91	0001	AL	N			-	J	-	-
	0205	12/11/91	0001	AL	N			-	J	-	-
MERCURY (TOTAL)	0203	12/12/90	N001	AL	N	MG/L		0.0002		0.0002	-
MOLYBDENUM	0202	04/17/91	0001	AL	N	MG/L		0.33		0.01	-
	0202	12/11/91	0001	AL	N			0.29		0.01	-
	0202	10/14/92	0001	AL	N			0.31		0.01	-

MATERIAL OF SAMPLING CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
N - UNKNOWN

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)
N001 - UNFILTERED SAMPLE

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
J - ESTIMATED VALUE

41 D.O.
6/15/93

TABLE 3. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR
THE NC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MOLYBDENUM	0203	04/17/91	0001	AL	N	HG/L		0.21		0.01	-
	0203	08/07/91	0001	AL	N			0.22		0.01	-
	0203	12/11/91	0001	AL	N			0.19		0.01	-
	0203	10/14/92	0001	AL	N			0.16		0.01	-
	0204	04/17/91	0001	AL	N			0.50		0.01	-
	0204	08/07/91	0001	AL	N			0.55		0.01	-
	0204	12/11/91	0001	AL	N			0.50		0.01	-
	0204	10/14/92	0001	AL	N			0.56		0.01	-
	0205	04/17/91	0001	AL	N			0.30		0.05	-
	0205	12/11/91	0001	AL	N			0.23		0.01	-
	0205	10/14/92	0001	AL	N			0.15		0.05	-
MOLYBDENUM (TOTAL)	0203	12/12/90	N001	AL	N	MG/L		0.42		0.01	-
	0204	12/12/90	N001	AL	N			0.50		0.01	-
NET GROSS ALPHA *	0202	04/17/91	0001	AL	N	PCI/L		21.02		-	-
	0203	04/17/91	0001	AL	N			-2305.38		-	-
	0204	04/17/91	0001	AL	N			29.52		-	-
	0205	04/17/91	0001	AL	N			-6213.40		-	-
NET GROSS ALPHA (TOTAL) **	0203	12/12/90	N001	AL	N	PCI/L		-2397.20		-	-
	0204	12/12/90	N001	AL	N			-7.77		-	-
NICKEL	0202	04/17/91	0001	AL	N	MG/L	<	0.04		0.04	-
	0202	12/11/91	0001	AL	N		<	0.04		0.04	-
	0202	10/14/92	0001	AL	N		<	0.04		0.04	-
	0203	04/17/91	0001	AL	N		<	0.04		0.04	-
	0203	08/07/91	0001	AL	N		<	0.04		0.04	-
	0203	12/11/91	0001	AL	N		<	0.04		0.04	-
	0203	10/14/92	0001	AL	N		<	0.04		0.04	-
	0204	04/17/91	0001	AL	N		<	0.04		0.04	-
	0204	08/07/91	0001	AL	N		<	0.04		0.04	-
	0204	12/11/91	0001	AL	N		<	0.04		0.04	-
	0204	10/14/92	0001	AL	N		<	0.04		0.04	-
	0205	04/17/91	0001	AL	N		<	0.2	I	0.2	-
	0205	12/11/91	0001	AL	N		<	0.04		0.04	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

** NET GROSS ALPHA (TOTAL) (TOTAL GROSS ALPHA - TOTAL URANIUM)

MATERIAL OF SAMPLING CODE:

AL - ALLUVIUM

FLOW RELATIONSHIP CODE:

N - UNKNOWN

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

N001 - UNFILTERED SAMPLE

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

TABLE 3. LYSINETER WATER QUALITY DATA BY PARAMETER FOR
THE NC PROCESSING SITE, SLICKROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NICKEL	0205	10/14/92	0001	AL	N	MG/L	<	0.2	I	0.2	-
NICKEL (TOTAL)	0203	12/12/90	N001	AL	N	MG/L	<	0.04		0.04	-
	0204	12/12/90	N001	AL	N		<	0.04		0.04	-
PH	0202	12/12/90	N001	AL	N	SU		7.74		-	-
	0202	04/17/91	0001	AL	N			7.62		-	-
	0202	12/11/91	0001	AL	N			7.76		-	-
	0202	10/14/92	0001	AL	N			7.63		-	-
	0203	12/12/90	N001	AL	N			7.54		-	-
	0203	04/17/91	0001	AL	N			7.65		-	-
	0203	08/07/91	0001	AL	N			7.88		-	-
	0203	12/11/91	0001	AL	N			7.77		-	-
	0203	10/14/92	0001	AL	N			7.58		-	-
	0204	12/12/90	N001	AL	N			7.24		-	-
	0204	04/17/91	0001	AL	N			6.99		-	-
	0204	08/07/91	0001	AL	N			6.49		-	-
	0204	12/11/91	0001	AL	N			6.54		-	-
	0204	10/14/92	0001	AL	N			5.89		-	-
	0205	12/12/90	N001	AL	N			7.66		-	-
	0205	04/17/91	0001	AL	N			7.56		-	-
	0205	12/11/91	0001	AL	N			7.69		-	-
	0205	10/14/92	0001	AL	N			7.60		-	-
PHOSPHATE (TOTAL)	0202	12/12/90	N001	AL	N	MG/L		1.3		0.1	-
	0203	12/12/90	N001	AL	N			0.9		0.1	-
	0204	12/12/90	N001	AL	N			0.9		0.1	-
	0205	12/12/90	N001	AL	N			1.3		0.1	-
POTASSIUM	0202	04/17/91	0001	AL	N	MG/L		86.		5.	-
	0202	12/11/91	0001	AL	N			69.		5.	-
	0202	10/14/92	0001	AL	N			72.		5.	-
	0203	04/17/91	0001	AL	N			121.		5.	-
	0203	08/07/91	0001	AL	N			139.		5.	-
	0203	12/11/91	0001	AL	N			124.		5.	-
	0203	10/14/92	0001	AL	N			115.		5.	-
	0204	04/17/91	0001	AL	N			5.		5.	-
	0204	08/07/91	0001	AL	N			6.3		0.01	-
	0204	12/11/91	0001	AL	N			16.		5.	-
	0204	10/14/92	0001	AL	N			5.52		0.01	-

MATERIAL OF SAMPLING CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
N - UNKNOWN

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)
N001 - UNFILTERED SAMPLE

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

TABLE 3. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR
THE NC PROCESSING SITE, SLICKROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
POTASSIUM	0205	04/17/91	0001	AL	N	MG/L	110.		20.	-
	0205	12/11/91	0001	AL	N		71.		5.	-
	0205	10/14/92	0001	AL	N		52.		5.	-
POTASSIUM (TOTAL)	0203	12/12/90	N001	AL	N	MG/L	175.		0.01	-
	0204	12/12/90	N001	AL	N		7.2		0.01	-
RADIUM-228	0202	10/14/92	0001	AL	N	PCI/L	5.8		4.4	2.8
	0203	10/14/92	0001	AL	N		0.0		4.4	2.5
	0204	10/14/92	0001	AL	N		0.0		4.4	2.5
REDOX POTENTIAL	0202	12/12/90	N001	AL	N	mVOLTS	420.5		-	-
	0203	12/12/90	N001	AL	N		442.7		-	-
	0204	12/12/90	N001	AL	N		487.8		-	-
	0205	12/12/90	N001	AL	N		432.1		-	-
SELENIUM	0202	04/17/91	0001	AL	N	MG/L	6.0		0.5	-
	0202	12/11/91	0001	AL	N		10.		5.	-
	0202	10/14/92	0001	AL	N		7.0		0.5	-
	0203	04/17/91	0001	AL	N		6.0		0.5	-
	0203	08/07/91	0001	AL	N		6.5		0.5	-
	0203	12/11/91	0001	AL	N		13.		5.	-
	0203	10/14/92	0001	AL	N		6.0		0.5	-
	0204	04/17/91	0001	AL	N		1.3		0.1	-
	0204	08/07/91	0001	AL	N		1.5		0.1	-
	0204	12/11/91	0001	AL	N		2.4		0.5	-
	0204	10/14/92	0001	AL	N		3.		1.	-
	0205	04/17/91	0001	AL	N		0.140		0.005	-
	0205	12/11/91	0001	AL	N		2.6		0.5	-
	0205	10/14/92	0001	AL	N		1.3		0.3	-
SELENIUM (TOTAL)	0203	12/12/90	N001	AL	N	MG/L	8.5		0.005	-
	0204	12/12/90	N001	AL	N		1.64		0.005	-
SILICA - SiO2	0202	10/14/92	0001	AL	N	MG/L	74.7		0.1	-
	0203	10/14/92	0001	AL	N		67.4		0.1	-
	0204	10/14/92	0001	AL	N		59.8		0.1	-
	0205	10/14/92	0001	AL	N		68.5		0.5	-
SILICA - SiO2 (TOTAL)	0203	12/12/90	N001	AL	N	MG/L	59.		2.	-
	0204	12/12/90	N001	AL	N		59.		2.	-

MATERIAL OF SAMPLING CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
N - UNKNOWN

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
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N001 - UNFILTERED SAMPLE

43 22
6/15/9.

39

44 J.D.R.
6/15/93

TABLE 3. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR
THE NC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SILVER	0202	04/17/91	0001	AL	N	MG/L	<	0.01		0.01	-
	0202	12/11/91	0001	AL	N		<	0.01		0.01	-
	0203	04/17/91	0001	AL	N		<	0.01		0.01	-
	0203	08/07/91	0001	AL	N		<	0.01		0.01	-
	0203	12/11/91	0001	AL	N		<	0.01		0.01	-
	0204	04/17/91	0001	AL	N		<	0.01		0.01	-
	0204	08/07/91	0001	AL	N		<	0.01		0.01	-
	0204	12/11/91	0001	AL	N		<	0.01		0.01	-
	0205	04/17/91	0001	AL	N		<	0.05	I	0.05	-
	0205	12/11/91	0001	AL	N			0.01		0.01	-
SILVER (TOTAL)	0203	12/12/90	N001	AL	N	MG/L	<	0.01		0.01	-
	0204	12/12/90	N001	AL	N		<	0.01		0.01	-
SODIUM	0202	04/17/91	0001	AL	N	MG/L		2140.		20.	-
	0202	12/11/91	0001	AL	N			2680.		20.	-
	0202	10/14/92	0001	AL	N			2480.		20.	-
	0203	04/17/91	0001	AL	N			3230.		20.	-
	0203	08/07/91	0001	AL	N			3510.		50.	-
	0203	12/11/91	0001	AL	N			3910.		50.	-
	0203	10/14/92	0001	AL	N			3540.		20.	-
	0204	04/17/91	0001	AL	N			51.		1.	-
	0204	08/07/91	0001	AL	N			53.		1.	-
	0204	12/11/91	0001	AL	N			1140.		20.	-
	0204	10/14/92	0001	AL	N			50.		10.	-
	0205	04/17/91	0001	AL	N			6360.		50.	-
	0205	12/11/91	0001	AL	N			7020.		50.	-
	0205	10/14/92	0001	AL	N			6700.		100.	-
SODIUM (TOTAL)	0203	12/12/90	N001	AL	N	MG/L		3370.		0.002	-
	0204	12/12/90	N001	AL	N			54.4		0.002	-
SPECIFIC CONDUCTANCE	0202	12/12/90	N001	AL	N	UMHO/CM		6400.		-	-
	0202	04/17/91	0001	AL	N			13950.		-	-
	0202	12/11/91	0001	AL	N			15900		-	-
	0203	12/12/90	N001	AL	N			17700.		-	-
	0203	04/17/91	0001	AL	N			15550.		-	-
	0203	12/11/91	0001	AL	N			21200		-	-
	0204	12/12/90	N001	AL	N			2510.		-	-
	0204	04/17/91	0001	AL	N			1986.		-	-

MATERIAL OF SAMPLING CODE:
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PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
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OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

TABLE 3. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR
THE NC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SPECIFIC CONDUCTANCE	0204	08/07/91	0001	AL	N	UMHO/CM	2310		-	-
	0204	12/11/91	0001	AL	N		2450		-	-
	0205	12/12/90	N001	AL	N		27300.		-	-
	0205	04/17/91	0001	AL	N		20700.		-	-
	0205	12/11/91	0001	AL	N		36000		-	-
STRONTIUM	0202	04/17/91	0001	AL	N	MG/L	12.7		0.05	-
	0202	12/11/91	0001	AL	N		13.5		0.01	-
	0202	10/14/92	0001	AL	N		14.0		0.01	-
	0203	04/17/91	0001	AL	N		19.0		0.05	-
	0203	08/07/91	0001	AL	N		19.0		0.01	-
	0203	12/11/91	0001	AL	N		21.5		0.01	-
	0203	10/14/92	0001	AL	N		19.6		0.01	-
	0204	04/17/91	0001	AL	N		3.60		0.05	-
	0204	08/07/91	0001	AL	N		3.76		0.01	-
	0204	12/11/91	0001	AL	N		6.89		0.01	-
	0204	10/14/92	0001	AL	N		3.6		0.1	-
	0205	04/17/91	0001	AL	N		22.2		0.05	-
	0205	12/11/91	0001	AL	N		22.0		0.01	-
	0205	10/14/92	0001	AL	N		21.0		0.01	-
STRONTIUM (TOTAL)	0203	12/12/90	N001	AL	N	MG/L	23.7		0.1	-
	0204	12/12/90	N001	AL	N		3.8		0.1	-
SULFATE	0202	10/14/92	0001	AL	N	MG/L	9490.		10.	-
	0203	10/14/92	0001	AL	N		12500.		10.	-
	0204	10/14/92	0001	AL	N		1450.		10.	-
	0205	10/14/92	0001	AL	N		18800.		10.	-
SULFATE (TOTAL)	0202	12/12/90	N001	AL	N	MG/L	7950.		0.1	-
	0203	12/12/90	N001	AL	N		13100.		0.1	-
	0204	12/12/90	N001	AL	N		1530.		0.1	-
	0205	12/12/90	N001	AL	N		17500.		0.1	-
TEMPERATURE	0202	12/12/90	N001	AL	N	C - DEGREE	11.4		-	-
	0202	04/17/91	0001	AL	N		14.5		-	-
	0202	12/11/91	0001	AL	N		8.8		-	-
	0202	10/14/92	0001	AL	N		19.8		-	-
	0203	12/12/90	N001	AL	N		11.2		-	-
	0203	08/07/91	0001	AL	N		23.7		-	-
	0203	12/11/91	0001	AL	N		7.2		-	-

MATERIAL OF SAMPLING CODE:
AL - ALLUVIUM

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

FLOW RELATIONSHIP CODE:
N - UNKNOWN

SAMPLE ID CODES:
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N001 - UNFILTERED SAMPLE

TABLE 3. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR
THE NC PROCESSING SITE, SLICKROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TEMPERATURE	0203	10/14/92	0001	AL	N	C - DEGREE		19.8		-	-
	0204	12/12/90	N001	AL	N			9.3		-	-
	0204	12/11/91	0001	AL	N			6.0		-	-
	0204	10/14/92	0001	AL	N			19.8		-	-
	0205	12/12/90	N001	AL	N			7.8		-	-
	0205	12/11/91	0001	AL	N			8.0		-	-
	0205	10/14/92	0001	AL	N			19.8		-	-
THALLIUM	0202	04/17/91	0001	AL	N	MG/L	<	0.03	I	0.03	-
	0202	12/11/91	0001	AL	N		<	0.1	I	0.1	-
	0202	10/14/92	0001	AL	N		<	0.005		0.005	-
	0203	04/17/91	0001	AL	N		<	0.03	I	0.03	-
	0203	08/07/91	0001	AL	N		<	0.01		0.01	-
	0203	12/11/91	0001	AL	N		<	0.1	I	0.1	-
	0203	10/14/92	0001	AL	N		<	0.02	I	0.02	-
	0204	04/17/91	0001	AL	N		<	0.01		0.01	-
	0204	08/07/91	0001	AL	N		<	0.01		0.01	-
	0204	12/11/91	0001	AL	N		<	0.1	I	0.1	-
	0204	10/14/92	0001	AL	N		<	0.005		0.005	-
	0205	04/17/91	0001	AL	N		<	0.1	I	0.1	-
	0205	12/11/91	0001	AL	N		<	0.1	I	0.1	-
	0205	10/14/92	0001	AL	N		<	0.02	I	0.02	-
THALLIUM (TOTAL)	0203	12/12/90	N001	AL	N	MG/L	<	0.01		0.01	-
	0204	12/12/90	N001	AL	N		<	0.01		0.01	-
TIN	0202	04/17/91	0001	AL	N	MG/L	<	0.05	I	0.05	-
	0202	12/11/91	0001	AL	N		<	0.5	I	0.5	-
	0202	10/14/92	0001	AL	N		<	0.2	I	0.2	-
	0203	04/17/91	0001	AL	N		<	0.05	I	0.05	-
	0203	08/07/91	0001	AL	N		<	0.3	I	0.3	-
	0203	12/11/91	0001	AL	N		<	0.03	I	0.03	-
	0203	10/14/92	0001	AL	N		<	0.2	I	0.2	-
	0204	04/17/91	0001	AL	N		<	0.01	I	0.01	-
	0204	08/07/91	0001	AL	N		<	0.005		0.005	-
	0204	12/11/91	0001	AL	N		<	0.03	I	0.03	-
	0204	10/14/92	0001	AL	N		<	0.005		0.005	-
	0205	04/17/91	0001	AL	N		<	0.05	I	0.05	-
	0205	12/11/91	0001	AL	N		<	0.5	I	0.5	-
	0205	10/14/92	0001	AL	N		<	0.2	I	0.2	-

MATERIAL OF SAMPLING CODE:
AL - ALLUVIUM

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

FLOW RELATIONSHIP CODE:
N - UNKNOWN

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)
N001 - UNFILTERED SAMPLE

42

TABLE 3. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR
THE NC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TIN (TOTAL)	0203	12/12/90	N001	AL	N	MG/L		0.012		0.005	-
	0204	12/12/90	N001	AL	N			0.012		0.005	-
TOTAL DISSOLVED SOLIDS	0202	10/14/92	0001	AL	N	MG/L		16300.	H	10.	-
	0203	10/14/92	0001	AL	N			22300.	H	10.	-
	0204	10/14/92	0001	AL	N			2430.	H	10.	-
	0205	10/14/92	0001	AL	N			33900.	H	10.	-
URANIUM	0202	04/17/91	0001	AL	N	MG/L		2.93		0.001	-
	0202	10/14/92	0001	AL	N			5.19		0.001	-
	0203	04/17/91	0001	AL	N			9.33		0.001	-
	0203	10/14/92	0001	AL	N			10.7		0.001	-
	0204	04/17/91	0001	AL	N			0.023		0.001	-
	0204	10/14/92	0001	AL	N		<	0.001		0.001	-
	0205	04/17/91	0001	AL	N			20.4		0.001	-
URANIUM (TOTAL)	0203	12/12/90	N001	AL	N	MG/L		10.2		0.0003	-
	0204	12/12/90	N001	AL	N			0.109		0.0003	-
VANADIUM	0202	04/17/91	0001	AL	N	MG/L		4.85		0.01	-
	0202	12/11/91	0001	AL	N			3.68		0.01	-
	0202	10/14/92	0001	AL	N			2.50		0.01	-
	0203	04/17/91	0001	AL	N			2.63		0.01	-
	0203	08/07/91	0001	AL	N			2.56		0.01	-
	0203	12/11/91	0001	AL	N			2.09		0.01	-
	0203	10/14/92	0001	AL	N			1.54		0.01	-
	0204	04/17/91	0001	AL	N			32.5		0.1	-
	0204	08/07/91	0001	AL	N			48.9		0.1	-
	0204	12/11/91	0001	AL	N			44.5		0.1	-
	0204	10/14/92	0001	AL	N			49.9		0.1	-
	0205	04/17/91	0001	AL	N			2.00		0.05	-
	0205	12/11/91	0001	AL	N			1.47		0.01	-
	0205	10/14/92	0001	AL	N			1.10		0.05	-
VANADIUM (TOTAL)	0203	12/12/90	N001	AL	N	MG/L		3.9		0.01	-
	0204	12/12/90	N001	AL	N			11.6		0.01	-
ZINC	0202	04/17/91	0001	AL	N	MG/L	<	0.005		0.005	-
	0202	12/11/91	0001	AL	N		<	0.05	I	0.05	-

MATERIAL OF SAMPLING CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
N - UNKNOWN

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)
N001 - UNFILTERED SAMPLE

OTHER PARAMETER VALUE FLAGS:
H - HOLD TIME EXPIRED, VALUE SUSPECT
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

47 DL
6/15/93

48 J.D.
6/15/93

TABLE 3. LYSIMETER WATER QUALITY DATA BY PARAMETER FOR
THE NC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 05/11/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	MAT. SAMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ZINC	0202	10/14/92	0001	AL	N	MG/L	0.017		0.005	-
	0203	04/17/91	0001	AL	N		< 0.03	I	0.03	-
	0203	08/07/91	0001	AL	N		< 0.05	I	0.05	-
	0203	12/11/91	0001	AL	N		< 0.05	I	0.05	-
	0203	10/14/92	0001	AL	N		0.015		0.005	-
	0204	04/17/91	0001	AL	N		0.147		0.005	-
	0204	08/07/91	0001	AL	N		0.227		0.005	-
	0204	12/11/91	0001	AL	N		0.133		0.005	-
	0204	10/14/92	0001	AL	N		0.236		0.005	-
	0205	04/17/91	0001	AL	N		0.09		0.03	-
	0205	12/11/91	0001	AL	N		< 0.1	I	0.1	-
	0205	10/14/92	0001	AL	N		0.03		0.03	-
ZINC (TOTAL)	0203	12/12/90	N001	AL	N	MG/L	0.04		0.005	-
	0204	12/12/90	N001	AL	N		0.09		0.005	-

MATERIAL OF SAMPLING CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
N - UNKNOWN

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)
N001 - UNFILTERED SAMPLE

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

DATA FILE NAME: M:\DART\SRK01\LYS10004.DAT

49 J.D.
6/16/93

TABLE 4. LYSIMETER WATER QUALITY STATISTICS BY PARAMETER FOR
THE NC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 06/15/93

PARAMETER NAME				UNITS	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF LOC.	MINIMUM	MAXIMUM	MEDIAN						MINIMUM	MAXIMUM *		
ALKALINITY				MG/L CaCO3								
4	42.5000	681.0000	+	369.3333	365.5417	264.8728	0.7246	0.0	-235.8521	966.9354	NORMAL	
ALUMINUM				MG/L								
4	** 0.0500	0.1825	+	0.1183	NA	NA	NA	21.4	** 0.0500	0.1825	NONPARAMETRIC	2,4
ALUMINUM (TOTAL)				MG/L								
2	** 0.1000	** 0.1000	**	0.1000	NA	NA	NA	100.0	NA	NA	UNKNOWN	1
ANTIMONY				MG/L								
4	0.0083	0.0417	+	0.0146	NA	NA	NA	85.7	0.0083	0.0417	NONPARAMETRIC	2,4
ANTIMONY (TOTAL)				MG/L								
2	** 0.0030	0.0030	**	0.0030	NA	NA	NA	50.0	NA	NA	UNKNOWN	1
ARSENIC				MG/L								
4	0.0413	0.2250	+	0.0675	NA	NA	NA	85.7	0.0413	0.2250	NONPARAMETRIC	2,4
ARSENIC (TOTAL)				MG/L								
2	0.0400	0.0600	+	0.0500	NA	NA	NA	0.0	NA	NA	UNKNOWN	1
BARIUM				MG/L								
4	0.0183	0.0567	+	0.0387	0.0381	0.0157	0.4118	7.1	** 0.0100	0.0738	NORMAL	
BARIUM (TOTAL)				MG/L								
2	** 0.1000	** 0.1000	**	0.1000	NA	NA	NA	100.0	NA	NA	UNKNOWN	1

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) Data from a minimum of 4 locations must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.

Note the data at each location was averaged before the statistical calculations were performed

TABLE 4. LYSIMETER WATER QUALITY STATISTICS BY PARAMETER FOR
THE NC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 06/15/93

PARAMETER NAME				UNITS	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF LOC.	MINIMUM	MAXIMUM	MEDIAN						MINIMUM	MAXIMUM *		
BERYLLIUM				MG/L								
4	** 0.0050	0.0333	+ 0.0070		NA	NA	NA	60.0	** 0.0050	0.0333	NONPARAMETRIC	2,4
BERYLLIUM (TOTAL)				MG/L								
2	0.0200	0.0500	+ 0.0350		NA	NA	NA	0.0	NA	NA	UNKNOWN	1
BORON				MG/L								
4	0.1850	1.7350	+ 1.1200		1.0400	0.6791	0.6530	0.0	** 0.0500	2.5820	NORMAL	
BORON (TOTAL)				MG/L								
2	0.1000	1.7000	+ 0.9000		NA	NA	NA	0.0	NA	NA	UNKNOWN	1
BROMIDE				MG/L								
4	** 0.3000	15.0000	+ 5.5000		NA	NA	NA	100.0	** 0.3000	15.0000	NONPARAMETRIC	2,4
BROMIDE (TOTAL)				MG/L								
4	0.0500	3.3000	+ 2.3000		NA	NA	NA	25.0	0.0500	3.3000	NONPARAMETRIC	2,4
CADMIUM				MG/L								
4	0.0095	0.0793	+ 0.0452		NA	NA	NA	42.9	0.0095	0.0793	NONPARAMETRIC	2,4
CADMIUM (TOTAL)				MG/L								
2	** 0.0010	0.0020	+ 0.0013		NA	NA	NA	50.0	NA	NA	UNKNOWN	1
CALCIUM				MG/L								
4	419.3333	591.7500	+ 442.4583		474.0000	81.1230	0.1711	0.0	289.8101	658.1899	NORMAL	

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) Data from a minimum of 4 locations must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.
Note the data at each location was averaged before the statistical calculations were performed

6/16/93

TABLE 4. LYSIMETER WATER QUALITY STATISTICS BY PARAMETER FOR
THE NC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 06/15/93

PARAMETER NAME					UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE
# OF LOC.	MINIMUM	MAXIMUM	MEDIAN	MEAN									
CALCIUM (TOTAL)					MG/L								
2	369.0000	516.0000	+ 442.5000	NA		NA	NA	0.0		NA	NA	UNKNOWN	1
CHLORIDE					MG/L								
4	24.0000	4650.0000	+ 1560.0000	693.5812		10.3112	NA	0.0		3.4704	138616.2884	LOGNORMAL	7,8
CHLORIDE (TOTAL)					MG/L								
4	14.0000	4060.0000	+ 1466.0000	1751.5000		1746.1664	0.9970	0.0	**	1.0000	5716.1707	NORMAL	
CHROMIUM					MG/L								
4	** 0.0100	0.0333	** 0.0100	NA		NA	NA	92.9	**	0.0100	0.0333	NONPARAMETRIC	2,4
CHROMIUM (TOTAL)					MG/L								
2	** 0.0100	** 0.0100	** 0.0100	NA		NA	NA	100.0		NA	NA	UNKNOWN	1
COBALT					MG/L								
4	** 0.0300	0.0325	** 0.0300	NA		NA	NA	100.0	**	0.0300	0.0325	NONPARAMETRIC	2,4
COBALT (TOTAL)					MG/L								
2	** 0.0500	** 0.0500	** 0.0500	NA		NA	NA	100.0		NA	NA	UNKNOWN	1
COPPER					MG/L								
4	0.0425	0.0700	+ 0.0550	0.0556		0.0120	0.2152	0.0		0.0285	0.0828	NORMAL	
COPPER (TOTAL)					MG/L								
2	** 0.0200	0.0300	+ 0.0200	NA		NA	NA	50.0		NA	NA	UNKNOWN	1

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) Data from a minimum of 4 locations must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

Note the data at each location was averaged before the statistical calculations were performed

52 20
6/16/93

TABLE 4. LYSIMETER WATER QUALITY STATISTICS BY PARAMETER FOR
THE NC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 06/15/93

PARAMETER NAME				UNITS								
# OF LOC.	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE	
								MINIMUM	MAXIMUM *			
FLUORIDE				MG/L								
4	0.2000	3.0000	+ 1.8000	1.7000	1.1747	0.6910	0.0	** 0.1000	4.3672	NORMAL		
FLUORIDE (TOTAL)				MG/L								
4	0.3000	1.2000	+ 0.7000	0.7250	0.3686	0.5084	0.0	** 0.1000	1.5618	NORMAL		
GROSS ALPHA				PCI/L								
4	45.3000	7781.0000	+ 3063.0000	3488.0750	3305.2146	0.9476	0.0	** 1.0000	10992.5647	NORMAL		
GROSS ALPHA (TOTAL)				PCI/L								
2	67.0000	4600.0000	+ 2333.5000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
GROSS BETA				PCI/L								
4	34.7000	4895.0000	+ 1904.5000	2184.6750	2155.0059	0.9864	0.0	** 0.5000	7077.6158	NORMAL		
GROSS BETA (TOTAL)				PCI/L								
2	74.0000	3100.0000	+ 1587.0000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
IRON				MG/L								
4	** 0.0300	0.0383	** 0.0300	NA	NA	NA	85.7	** 0.0300	0.0383	NONPARAMETRIC	2,4	
IRON (TOTAL)				MG/L								
2	0.0900	0.7800	+ 0.4350	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
LEAD				MG/L								
4	0.0141	0.0583	+ 0.0333	NA	NA	NA	100.0	0.0141	0.0583	NONPARAMETRIC	2,4	

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) Data from a minimum of 4 locations must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.

Note the data at each location was averaged before the statistical calculations were performed

3/

53 J.D.
6/16/93

TABLE 4. LYSIMETER WATER QUALITY STATISTICS BY PARAMETER FOR
THE NC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 06/15/93

PARAMETER NAME				UNITS						STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF LOC.	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	MINIMUM	MAXIMUM *				
LEAD (TOTAL)				MG/L									
2	0.0100	0.0300	+ 0.0200	NA	NA	NA	0.0	NA	NA			UNKNOWN	1
MAGNESIUM				MG/L									
4	96.7500	2246.6667	+ 1513.3333	1342.5208	938.2965	0.6989	0.0	** 0.1000	3472.9229			NORMAL	
MAGNESIUM (TOTAL)				MG/L									
2	18.2000	1790.0000	+ 904.1000	NA	NA	NA	0.0	NA	NA			UNKNOWN	1
MANGANESE				MG/L									
4	0.0333	0.1650	+ 0.0479	NA	NA	NA	71.4	0.0333	0.1650			NONPARAMETRIC	2,4
MANGANESE (TOTAL)				MG/L									
2	0.0400	0.1400	+ 0.0900	NA	NA	NA	0.0	NA	NA			UNKNOWN	1
MERCURY (TOTAL)				MG/L									
1	0.0002	0.0002	0.0002	NA	NA	NA	0.0	NA	NA			UNKNOWN	1
MOLYBDENUM				MG/L									
4	0.1950	0.5275	+ 0.2683	0.3148	0.1499	0.4761	0.0	** 0.0100	0.6551			NORMAL	
MOLYBDENUM (TOTAL)				MG/L									
2	0.4200	0.5000	+ 0.4600	NA	NA	NA	0.0	NA	NA			UNKNOWN	1
NET GROSS ALPHA ***				PCI/L									
4	-6213.4000	29.5200	+ -1142.1800	NA	NA	NA	0.0	-6213.4000	29.5200			NONPARAMETRIC	9,4

*** NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) Data from a minimum of 4 locations must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

Note the data at each location was averaged before the statistical calculations were performed

44

54 22
6/16/93

TABLE 4. LYSIMETER WATER QUALITY STATISTICS BY PARAMETER FOR
THE NC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 06/15/93

PARAMETER NAME					UNITS							
# OF LOC.	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE	
NET GROSS ALPHA (TOTAL) ****				PC1/L								
2	-2397.2000	-7.7700	+-1202.4850	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
NICKEL				MG/L								
4	** 0.0400	0.0733	** 0.0400	NA	NA	NA	100.0	** 0.0400	0.0733	NONPARAMETRIC	2,4	
NICKEL (TOTAL)				MG/L								
2	** 0.0400	** 0.0400	** 0.0400	NA	NA	NA	100.0	NA	NA	UNKNOWN	1	
PH				SU								
4	6.3851	7.6830	+ 7.6451	NA	NA	NA	0.0	NA	NA	UNKNOWN		
PHOSPHATE (TOTAL)				MG/L								
4	0.9000	1.3000	+ 1.1000	1.1000	0.2309	0.2099	0.0	0.5757	1.6243	NORMAL		
POTASSIUM				MG/L								
4	8.2050	124.7500	+ 76.6667	71.5721	47.9485	0.6699	0.0	** 0.0100	180.4392	NORMAL		
POTASSIUM (TOTAL)				MG/L								
2	7.2000	175.0000	+ 91.1000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
RADIUM-228				PC1/L								
3	** 4.4000	5.8000	** 4.4000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
REDOX POTENTIAL				mVOLTS								
4	420.5000	487.8000	+ 437.4000	445.7750	29.4471	0.0661	0.0	378.9155	512.6345	NORMAL		

**** NET GROSS ALPHA (TOTAL) (TOTAL GROSS ALPHA - TOTAL URANIUM)

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) Data from a minimum of 4 locations must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.

Note the data at each location was averaged before the statistical calculations were performed

57

15

TABLE 4. LYSIMETER WATER QUALITY STATISTICS BY PARAMETER FOR
THE NC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 06/15/93

PARAMETER NAME				UNITS	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF LOC.	MINIMUM	MAXIMUM	MEDIAN	MINIMUM					MAXIMUM *			
SELENIUM				MG/L								
4	1.3467	7.8750	+ 4.8583	4.7346	3.5187	0.7432	0.0	**	0.0050	12.7239	NORMAL	
SELENIUM (TOTAL)				MG/L								
2	1.6400	8.5000	+ 5.0700	NA	NA	NA	0.0		NA	NA	UNKNOWN	1
SILICA - SiO2				MG/L								
4	59.8000	74.7000	+ 67.9500	67.6000	6.1128	0.0904	0.0		53.7208	81.4792	NORMAL	
SILICA - SiO2 (TOTAL)				MG/L								
2	59.0000	59.0000	+ 59.0000	NA	NA	NA	0.0		NA	NA	UNKNOWN	1
SILVER				MG/L								
4	** 0.0100	0.0175	** 0.0100	NA	NA	NA	90.0	**	0.0100	0.0175	NONPARAMETRIC	2,4
SILVER (TOTAL)				MG/L								
2	** 0.0100	** 0.0100	** 0.0100	NA	NA	NA	100.0		NA	NA	UNKNOWN	1
SODIUM				MG/L								
4	323.5000	6693.3333	+ 2990.4167	3249.4167	2656.8400	0.8176	0.0	**	1.0000	9281.7718	NORMAL	
SODIUM (TOTAL)				MG/L								
2	54.4000	3370.0000	+ 1712.2000	NA	NA	NA	0.0		NA	NA	UNKNOWN	1
SPECIFIC CONDUCTANCE				UMHO/CM								
4	2314.0000	28000.0000	+15116.6667	15136.8333	10774.8031	0.7118	0.0		-9327.3572	39601.0238	NORMAL	

+ The sample size is even, so the median value is the arithmetic average of the two middle values

1) Data from a minimum of 4 locations must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 10% of the data.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided

Note the data at each location was averaged before the statistical calculations were performed

TABLE 4. LYSIMETER WATER QUALITY STATISTICS BY PARAMETER FOR
THE NC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 06/15/93

PARAMETER NAME				UNITS	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF LOC.	MINIMUM	MAXIMUM	MEDIAN						MINIMUM	MAXIMUM *		
STRONTIUM				MG/L								
4	4.4625	21.7333	+ 16.5875		14.8427	7.7811	0.5242	0.0	** 0.0100	32.5098	NORMAL	
STRONTIUM (TOTAL)				MG/L								
2	3.8000	23.7000	+ 13.7500		NA	NA	NA	0.0	NA	NA	UNKNOWN	1
SULFATE				MG/L								
4	1450.0000	18800.0000	+10995.0000		10560.0000	7206.4369	0.6824	0.0	** 10.0000	26922.2151	NORMAL	
SULFATE (TOTAL)				MG/L								
4	1530.0000	17500.0000	+10525.0000		10020.0000	6875.1194	0.6861	0.0	** 0.1000	25629.9586	NORMAL	
TEMPERATURE				C - DEGREE								
4	11.7000	15.4750	+ 12.7458		13.1667	1.7682	0.1343	0.0	9.1520	17.1814	NORMAL	
THALLIUM				MG/L								
4	0.0156	0.0367	+ 0.0213		NA	NA	NA	100.0	0.0156	0.0367	NONPARAMETRIC	2,4
THALLIUM (TOTAL)				MG/L								
2	** 0.0100	** 0.0100	** 0.0100		NA	NA	NA	100.0	NA	NA	UNKNOWN	1
TIN				MG/L								
4	0.0062	0.1250	+ 0.0988		NA	NA	NA	100.0	0.0062	0.1250	NONPARAMETRIC	2,4
TIN (TOTAL)				MG/L								
2	0.0120	0.0120	+ 0.0120		NA	NA	NA	0.0	NA	NA	UNKNOWN	1

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) Data from a minimum of 4 locations must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.

Note the data at each location was averaged before the statistical calculations were performed

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TABLE 4. LYSIMETER WATER QUALITY STATISTICS BY PARAMETER FOR
THE NC PROCESSING SITE, SLICK ROCK, COLORADO
SITE: SRK01 SLICK ROCK (BOTH SITES)
12/12/90 TO 10/14/92
REPORT DATE: 06/15/93

PARAMETER NAME				UNITS					STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF LOC.	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS		MINIMUM	MAXIMUM *		
TOTAL DISSOLVED SOLIDS				MG/L								
4	2430.0000	33900.0000	+19300.0000	18732.5000	13095.4022	0.6991	0.0	**	10.0000	48465.6107	NORMAL	
URANIUM				MG/L								
4	0.0118	20.4000	+ 7.0375	1.7669	30.1669	NA	14.3	**	0.0010	4040.9812	LOGNORMAL	7,8
URANIUM (TOTAL)				MG/L								
2	0.1090	10.2000	+ 5.1545	NA	NA	NA	0.0		NA	NA	UNKNOWN	1
VANADIUM				MG/L								
4	1.5233	43.9500	+ 2.9408	4.8267	4.5551	NA	0.0		0.1544	150.9304	LOGNORMAL	7,8
VANADIUM (TOTAL)				MG/L								
2	3.9000	11.6000	+ 7.7500	NA	NA	NA	0.0		NA	NA	UNKNOWN	1
ZINC				MG/L								
4	0.0148	0.1857	+ 0.0383	NA	NA	NA	42.9		0.0148	0.1857	NONPARAMETRIC	2,4
ZINC (TOTAL)				MG/L								
2	0.0400	0.0900	+ 0.0650	NA	NA	NA	0.0		NA	NA	UNKNOWN	1

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) Data from a minimum of 4 locations must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

Note the data at each location was averaged before the statistical calculations were performed

INPUT DATA FILENAME: M:\DART\SRK01\LYS10004.DAT

53

Table 5 Maximum concentration of regulated constituents
for groundwater protection^a

Constituents with MCLs ^b	mg/l	Constituents with MCLs ^b	mg/l
Arsenic (As)	0.05	Carbon tetrachloride	0.005
Barium (Ba)	1.0	p- Dichlorobenzene (benzene, 1,4 di-)	0.075
Cadmium (Cd)	0.01	1,1- Dichloroethylene (ethene, 1,1 di-)	0.007
Chromium (Cr)	0.05	Endrin	0.0002
Lead (Pb)	0.05	Ethylene dichloride	0.005
Mercury (Hg)	0.002	Lindane	0.004
Molybdenum (Mo)	0.1	Methoxychlor	0.1
Nitrate (NO ₃)	44.0	Methylchloroform	0.2
Selenium (Se)	0.01	Toxaphene	0.005
Silver (Ag)	0.05	2,4-D	0.1
Combined radium (Ra-226 and - 228)	5.0 ^c	2,4,5-TP	0.01
Combined uranium (U-234 and -238)	30.0 ^c	Trichlorethylene	0.005
Net gross alpha (excluding radon and uranium)	15.0 ^c	Vinyl chloride	0.002

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Table 5 Maximum concentration of regulated constituents for groundwater protection^a (Concluded)

Constituents without MCLs	Constituents without MCLs
Antimony (Sb) and compounds, NOS ^d	Nickel (Ni) and compounds, NOS ^d
Aluminum phosphide ^e	Strontium sulfide ^e
Beryllium (Be) and compounds, NOS ^d	Sulfide (S)
Calcium chromate ^e	Thallium (Th) and compounds, NOS ^d
Carbon disulfide ^e	Tin (Sn)
Carbon oxyfluoride ^e	Vanadium (V)
Copper (Cu)	Vanadic acid, ammonium salt ^e
Cobalt (Co)	Vanadium pentoxide ^e
Cyanides (CN), NOS ^{d,e,f}	Zinc (Zn)
	Zinc phosphide ^e

^aSummarized from draft final EPA groundwater standards, April 1989, 40 CFR 192.02.

^bMaximum concentration limits. Concentrations of these constituents shall not exceed background or the MCL limits, whichever is higher.

^cUnits are pCi/l.

^dNot otherwise specified. Members of compounds not specified in Appendix I.

^eAdded when Appendix I replaced Appendix IX of 40 CFR 264.

^fSoluble salts and complexes.

Table 6.1 Summary of selected constituents in tailings pore fluid samples, UC processing site

Constituents with MCLs ^a				
Parameter	Median	MCL	Background ^b	Exceed
Arsenic	0.02 ^c	0.05	0.01 ^e	--
Barium	0.04 ^d	1.00	0.05 ^c	--
Cadmium	0.08 ^c	0.01	0.001 ^e	8x
Chromium	0.01 ^e	0.05	0.01 ^e	--
Net gross alpha ^f	-21.19	15.00	6.96 ^c	--
Lead	0.009 ^c	0.05	0.01 ^e	--
Mercury	0.0002 ^e	0.002	0.0002 ^e	--
Molybdenum	3.63 ^c	0.10	0.02 ^c	36x
Nitrate	210.0	44.0	4.4 ^c	5x
Radium-226 and -228 ^f	--	5.0	1.80 ^d	--
Selenium	2.78 ^c	0.01	0.012 ^e	278x
Silver	0.01 ^e	0.05	0.01 ^e	--
Uranium	0.26 ^d	0.044	0.019 ^c	6x

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Table 6.1 Summary of selected constituents in tailings
pore fluid samples, UC processing site (Concluded)

Constituents without MCLs ^a				
Parameter	Median	MCL	Background ^b	Exceed
Antimony	0.011 ^c	None	0.003 ^e	4x
Beryllium	0.01 ^e	None	0.01 ^e	--
Cobalt	0.03 ^c	None	0.05 ^e	--
Copper	0.42 ^c	None	0.02 ^e	21x
Cyanide	--	None	0.01 ^e	--
Nickel	0.04 ^e	None	0.04 ^e	--
Sulfide	0.1 ^e	None	1.0 ^c	--
Thallium	0.01 ^e	None	0.01 ^e	--
Tin	0.009 ^c	None	0.005 ^e	2x
Vanadium	0.18 ^c	None	0.02 ^c	9x
Zinc	0.236 ^c	None	0.01 ^c	24x

^aAll units are mg/l unless otherwise noted.

^bDisposal site background groundwater statistical maximum (upper sandstone unit).

^cLognormal distribution, mean is geometric.

^dNormal distribution, mean is arithmetic.

^eNonparametric distribution

^fUnits are pCi/l.

^gStatistical values are below laboratory detection limits in Table 8.1 of the Technical Approach Document (DOE, 1989)

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Table 6.2 Summary of selected constituents in tailings pore fluid samples, NC processing site

Constituents with MCLs ^a				
Parameter	Median	MCL	Background ^b	Exceed
Arsenic	0.07 ^c	0.05	0.01 ^g	1.4x
Barium	0.04 ^d	1.00	0.05 ^c	--
Cadmium	0.04 ^c	0.01	0.001 ^g	4x
Chromium	0.01 ^g	0.05	0.01 ^g	--
Net gross alpha ^f	-1142.18 ^c	15.00	6.96 ^c	--
Lead	0.03 ^c	0.05	0.01 ^g	--
Mercury	--	0.002	0.0002 ^g	--
Molybdenum	0.31 ^d	0.10	0.02 ^g	3x
Nitrate	--	44.0	4.4 ^c	--
Radium-226 and -228 ^f	--	5.0	1.80 ^d	--
Selenium	4.73 ^d	0.01	0.012 ^g	473x
Silver	0.01 ^g	0.05	0.01 ^g	--
Uranium	1.77 ^c	0.044	0.019 ^c	40x

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Table 6.2 Summary of selected constituents in tailings pore fluid samples, NC processing site (Concluded)

Constituents without MCLs ^a				
Parameter	Median	MCL	Background ^b	Exceed
Antimony	0.015 ^c	None	0.003 ^e	5x
Beryllium	0.007 ^c	None	0.01 ^e	--
Cobalt	0.05 ^e	None	0.05 ^e	--
Copper	0.06 ^d	None	0.02 ^e	3x
Cyanide	--	None	0.01 ^e	--
Nickel	0.04 ^e	None	0.04 ^e	--
Sulfide	--	None	1.0 ^c	--
Thallium	0.02 ^c	None	0.01 ^e	2x
Tin	0.099 ^c	None	0.005 ^e	20x
Vanadium	4.83 ^c	None	0.02 ^c	242x
Zinc	0.038 ^c	None	0.01 ^c	4x

^aAll units are mg/l unless otherwise noted.

^bDisposal site background groundwater statistical maximum (upper sandstone unit).

^cLognormal distribution, mean is geometric.

^dNormal distribution, mean is arithmetic.

^eNonparametric distribution

^fUnits are pCi/l.

^gStatistical values are below laboratory detection limits in Table 8.1 of the Technical Approach Document (DOE, 1989)

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JACOBS ENGINEERING GROUP INC.
ALBUQUERQUE OPERATIONS

CALCULATION COVER SHEET

CALC NO. SRK 05-93-14-11 DISCIPLINE Hydro

NO. OF SHEETS 157 ^{159C}

PROJECT:

UMTRA

SITE:

Slickrock Processing sites (SRK 01)

FEATURE:

ON site & down Gradient Groundwater
Quality

SOURCES OF DATA:

UMTRA DART SYSTEM.

SOURCES OF FORMULAE & REFERENCES:

UMTRA DART SYSTEM

PRELIMINARY CALC. ☐ FINAL CALC. ☐ SUPERSEDES CALC. NO. _____

00	1/A	M. Hopper	6/17/93	Kathy Munk	6/15/93		
REV. NO.	REVISION	CALCULATION BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE

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ON-SITE AND DOWNGRAIDENT GROUNDWATER QUALITY

SLICK ROCK PROCESSING SITES (SRK01)

CALC # SRK-05-93-14-11

A. PURPOSE OF CALCULATION

To determine on-site and downgradient groundwater quality in the Dolores River alluvium, Entrada Sandstone Formation, and the Navajo sandstone Formation at both the Union Carbide (UC) processing site and the North Continent (NC) processing site, Slick Rock, Colorado.

B. OVERVIEW OF METHOD

Groundwater quality data were collected from 3 DOE monitor wells at the NC processing site and 11 DOE monitor wells at the UC site. On-site and downgradient monitor well locations are shown in Figure 1. There are three monitor wells at the NC site (503, 504, 512) and all three are screened in the Dolores River alluvium. Eleven wells are present at the UC processing site. Five monitor wells are screened in the Dolores River alluvium (506, 507, 508, 509, and 510). Three monitor wells are screened in the Entrada Sandstone (554, 702, and 704), and three in the Navajo Sandstone (669, 670, and 688).

Groundwater quality data were collected and analyzed for the period June 30, 1986 to November 13, 1993.

C. ASSUMPTIONS

- o The data at each location was not averaged before the statistical calculations were performed.
- o Chemical constituents were analyzed with approved and established procedures.
- o Quality control procedures were used during all sampling activities.

D. MATERIAL PROPERTIES

The material properties and lithologic descriptions of each formation of interest is presented in Calculation SRK-05-93-14-10-00.

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E. DATA SOURCES

Groundwater quality data is stored in the UMTRA data base management system DART. This information is reproduced in the attached tables. Tables 1-4 list on-site and downgradient groundwater quality data and statistical analysis for the Dolores River alluvium at both processing sites (UC and NC). Tables 5 and 6 list the same type of data for the Entrada Sandstone Formation for the UC processing site. No monitor wells are screened in the Entrada Sandstone at the NC site. Tables 7 and 8 list the same type of data for the Navajo Sandstone Formation for the UC processing site. No downgradient monitor wells are screened in the Navajo Sandstone at the NC site.

A hazardous constituent is any constituent listed in 40 CFR 192 Table 1 and Appendix I and in 40 CFR 264 Appendix IX which have been incorporated by reference into 40 CFR 192. A list of the regulated constituents is presented in Table 9.

F. CONCLUSIONS AND RECOMMENDATIONS

Tables 10.1 and 10.2 present a summary of on-site and downgradient groundwater quality data for the Dolores River alluvium for each processing site, UC and NC, respectively. For all data the median (or mean) and the statistical maximum are shown. In addition, the background statistical maximum and the MCL for each constituent is presented for comparasion. Tables 10.3 and 10.4 present the same type of data for the Entrada Sandstone Formation and the Navajo Sandstone Formation respectively.

G. REFERENCES

UMTRA data base management system DART.

H. ATTACHMENTS

Figure 1 - Monitor Well Location Map of the Slick Rock NC and UC Processing Sites.

Table 1 - On-site and downgradient groundwater quality data by parameter in the Dolores River alluvium, UC processing site, Slick Rock, Colorado.

Table 2 - On-site and downgradient groundwater quality statistics by parameter in the Dolores River alluvium, UC processing site, Slick Rock, Colorado.

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Table 3 - On-site and downgradient groundwater quality data by parameter in the Dolores River alluvium, NC processing site, Slick Rock, Colorado.

Table 4 - On-site and downgradient groundwater quality statistics by parameter in the Dolores River alluvium, NC processing site, Slick Rock, Colorado.

Table 5 - On-site and downgradient groundwater quality data by parameter in the Entrada Sandstone, UC processing site, Slick Rock, Colorado.

Table 6 - On-site and downgradient groundwater quality statistics by Parameter in the Entrada Sandstone, UC processing site, Slick Rock, Colorado.

Table 7 - On-site and downgradient groundwater quality data by parameter in the Navajo Sandstone, UC processing site, Slick Rock, Colorado.

Table 8 - On-site and downgradient groundwater quality statistics by parameter in the Navajo Sandstone, UC processing site, Slick Rock, Colorado.

Table 9 - Maximum concentration of regulated constituents for groundwater protection.

Table 10.1 - Summary of selected constituents of on-site and downgradient groundwater samples in the Dolores River alluvium, UC processing site

Table 10.2 - Summary of selected constituents of on-site and downgradient groundwater samples in the Dolores River alluvium, NC processing site

Table 10.3 - Summary of selected constituents of on-site and downgradient groundwater samples in the Entrada Sandstone Formation, UC processing site

Table 10.4 - Summary of selected constituents of on-site and downgradient groundwater samples in the Navajo Sandstone Formation, UC processing site

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 03/07/94

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	0506	07/01/86	0001	AL	D	MG/L CAC03	645.		-	-
	0506	10/14/87	0001	AL	D		664.		-	-
	0506	02/22/88	0001	AL	D		628.		-	-
	0506	03/28/91	0001	AL	D		739.		-	-
	0506	08/08/91	0001	AL	D		791		-	-
	0506	12/05/91	0001	AL	D		705		-	-
	0506	10/08/92	0001	AL	D		687		-	-
	0507	06/30/86	0001	AL	D		461.		-	-
	0507	10/14/87	0001	AL	D		495.		-	-
	0507	02/22/88	0001	AL	D		495.		-	-
	0507	05/16/90	0001	AL	D		513.		-	-
	0507	03/28/91	0001	AL	D		572.		-	-
	0507	08/09/91	0001	AL	D		580		-	-
	0507	12/05/91	0001	AL	D		550		-	-
	0507	10/08/92	0001	AL	D		500		-	-
	0508	06/30/86	0001	AL	O		406.		-	-
	0508	10/14/87	0001	AL	O		386.		-	-
	0508	02/19/88	0001	AL	O		551.		-	-
	0508	03/27/91	0001	AL	O		379.		-	-
	0508	08/28/91	0001	AL	O		383		-	-
	0508	12/05/91	0001	AL	O		375		-	-
	0508	10/10/92	0001	AL	O		360		-	-
	0509	07/17/86	0001	AL	O		291.		-	-
	0509	10/14/87	0001	AL	O		277.		-	-
	0509	02/22/88	0001	AL	O		249.		-	-
	0509	03/27/91	0001	AL	O		282.		-	-
	0509	08/28/91	0001	AL	O		272		-	-
	0509	12/05/91	0001	AL	O		284		-	-
	0509	10/13/92	0001	AL	O		280		-	-
	0510	06/30/86	0001	AL	O		374.		-	-
	0510	10/14/87	0001	AL	O		420.		-	-
	0510	02/22/88	0001	AL	O		386.		-	-
	0510	05/16/90	0001	AL	O		415.		-	-
	0510	03/28/91	0001	AL	O		390.		-	-
	0510	08/28/91	0001	AL	O		397		-	-
	0510	12/05/91	0001	AL	O		399.		-	-
	0510	10/08/92	0001	AL	O		392		-	-
ALUMINUM	0506	07/01/86	0001	AL	D	MG/L	0.2		0.1	-
	0506	10/14/87	0001	AL	D		< 0.1		0.1	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

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TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALUMINUM	0506	02/22/88	0001	AL	D	MG/L		0.38		0.1	-
	0506	03/28/91	0001	AL	D		<	0.05		0.05	-
	0506	08/08/91	0001	AL	D		<	0.05		0.05	-
	0506	11/20/91	0001	AL	D		<	0.05		0.05	-
	0506	10/08/92	0001	AL	D		<	0.05		0.05	-
	0507	06/30/86	0001	AL	D			0.2		0.1	-
	0507	10/14/87	0001	AL	D		<	0.1		0.1	-
	0507	02/22/88	0001	AL	D			0.19		0.1	-
	0507	05/16/90	0001	AL	D		<	0.1		0.1	-
	0507	03/28/91	0001	AL	D		<	0.05		0.05	-
	0507	08/09/91	0001	AL	D		<	0.05		0.05	-
	0507	12/05/91	0001	AL	D		<	0.05		0.05	-
	0507	10/08/92	0001	AL	D		<	0.05		0.05	-
	0508	06/30/86	0001	AL	O			0.3		0.1	-
	0508	10/14/87	0001	AL	O		<	0.1		0.1	-
	0508	02/19/88	0001	AL	O			0.40		0.1	-
	0508	03/27/91	0001	AL	O		<	0.05		0.05	-
	0508	08/28/91	0001	AL	O		<	0.05		0.05	-
	0508	12/05/91	0001	AL	O		<	0.05		0.05	-
	0508	10/10/92	0001	AL	O		<	0.05		0.05	-
	0509	07/17/86	0001	AL	O			0.2		0.1	-
	0509	10/14/87	0001	AL	O		<	0.1		0.1	-
	0509	02/22/88	0001	AL	O			0.17		0.1	-
	0509	03/27/91	0001	AL	O		<	0.05		0.05	-
	0509	08/28/91	0001	AL	O		<	0.05		0.05	-
	0509	11/21/91	0001	AL	O		<	0.05		0.05	-
	0509	10/13/92	0001	AL	O		<	0.05		0.05	-
	0510	06/30/86	0001	AL	O			0.2		0.1	-
	0510	10/14/87	0001	AL	O		<	0.1		0.1	-
	0510	02/22/88	0001	AL	O			0.39		0.1	-
	0510	05/16/90	0001	AL	O		<	0.1		0.1	-
	0510	03/28/91	0001	AL	O		<	0.05		0.05	-
	0510	12/05/91	0001	AL	O		<	0.05		0.05	-
	0510	10/08/92	0001	AL	O		<	0.05		0.05	-
AMMONIUM	0506	10/14/87	0001	AL	D	MG/L		175.		0.1	-
	0506	02/22/88	0001	AL	D			170.		0.1	-
	0506	03/28/91	0001	AL	D			143.		0.1	-
	0506	08/08/91	0001	AL	D			139.		0.1	-
	0506	11/20/91	0001	AL	D			152.		10.	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

9

14 J.A.
6/15/93

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
AMMONIUM	0506	10/08/92	0001	AL	D	MG/L		115.	H	20.	-
	0507	10/14/87	0001	AL	D			67.		0.1	-
	0507	02/22/88	0001	AL	D			71.		0.1	-
	0507	05/16/90	0001	AL	D			48.5		0.1	-
	0507	03/28/91	0001	AL	D			31.5		0.1	-
	0507	08/09/91	0001	AL	D			22.9		0.1	-
	0507	12/05/91	0001	AL	D			22.8		1.	-
	0507	10/08/92	0001	AL	D			39.	H	3.	-
	0508	10/14/87	0001	AL	O			188.		0.1	-
	0508	02/19/88	0001	AL	O			190.		0.1	-
	0508	03/27/91	0001	AL	O			84.9		0.1	-
	0508	08/28/91	0001	AL	O			164.		0.1	-
	0508	12/05/91	0001	AL	O			169.		15.	-
	0508	10/10/92	0001	AL	O			165.	H	10.	-
	0509	10/14/87	0001	AL	O			75.		0.1	-
	0509	02/22/88	0001	AL	O			61.		0.1	-
	0509	03/27/91	0001	AL	O			160.		0.1	-
	0509	08/28/91	0001	AL	O			102.		0.1	-
	0509	11/21/91	0001	AL	O			117.		10.	-
	0509	10/13/92	0001	AL	O			183.		10.	-
	0510	06/30/86	0001	AL	O			80.		0.1	-
	0510	10/14/87	0001	AL	O			131.		0.1	-
	0510	02/22/88	0001	AL	O			140.		0.1	-
	0510	05/16/90	0001	AL	O			119.		0.1	-
	0510	03/28/91	0001	AL	O			70.7		0.1	-
	0510	08/28/91	0001	AL	O			81.4		0.1	-
	0510	12/05/91	0001	AL	O			84.5		15.	-
	0510	10/08/92	0001	AL	O			102.	H	10.	-
ANTIMONY	0506	03/28/91	0001	AL	D	MG/L	<	0.03	I	0.03	-
	0506	08/08/91	0001	AL	D		<	0.03	I	0.03	-
	0506	11/20/91	0001	AL	D		<	0.003		0.003	-
	0506	10/08/92	0001	AL	D		<	0.02	I	0.02	-
	0507	05/16/90	0001	AL	D		<	0.003		0.003	-
	0507	03/28/91	0001	AL	D		<	0.005	I	0.005	-
	0507	08/09/91	0001	AL	D		<	0.003		0.003	-
	0507	12/05/91	0001	AL	D		<	0.003		0.003	-
	0507	10/08/92	0001	AL	D		<	0.02	I	0.02	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
H - HOLD TIME EXPIRED, VALUE SUSPECT
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

0.

6/15/93

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ANTIMONY	0508	03/27/91	0001	AL	O	MG/L	<	0.005	I	0.005	-
	0508	08/28/91	0001	AL	O		<	0.003		0.003	-
	0508	12/05/91	0001	AL	O		<	0.003		0.003	-
	0508	10/10/92	0001	AL	O		<	0.003		0.003	-
	0509	03/27/91	0001	AL	O		<	0.005	I	0.005	-
	0509	08/28/91	0001	AL	O		<	0.003		0.003	-
	0509	11/21/91	0001	AL	O		<	0.003		0.003	-
	0509	10/13/92	0001	AL	O		<	0.003		0.003	-
	0510	06/30/86	0001	AL	O		<	0.003		0.003	-
	0510	05/16/90	0001	AL	O		<	0.013		0.003	-
	0510	03/28/91	0001	AL	O		<	0.005	I	0.005	-
	0510	12/05/91	0001	AL	O		<	0.003		0.003	-
	0510	10/08/92	0001	AL	O		<	0.003		0.003	-
ARSENIC	0506	07/01/86	0001	AL	D	MG/L	<	0.01		0.01	-
	0506	10/14/87	0001	AL	D		<	0.01		0.01	-
	0506	03/28/91	0001	AL	D		<	0.05	I	0.05	-
	0506	08/08/91	0001	AL	D		<	0.1	I	0.1	-
	0506	11/20/91	0001	AL	D		<	0.05	I	0.05	-
	0506	10/08/92	0001	AL	D		<	0.005		0.005	-
	0507	06/30/86	0001	AL	D		<	0.01		0.01	-
	0507	10/14/87	0001	AL	D		<	0.01		0.01	-
	0507	05/16/90	0001	AL	D		<	0.01		0.01	-
	0507	03/28/91	0001	AL	D		<	0.01		0.01	-
	0507	08/09/91	0001	AL	D		<	0.01		0.01	-
	0507	12/05/91	0001	AL	D		<	0.05	I	0.05	-
	0507	10/08/92	0001	AL	D		<	0.005		0.005	-
	0508	06/30/86	0001	AL	O		<	0.01		0.01	-
	0508	10/14/87	0001	AL	O		<	0.01		0.01	-
	0508	03/27/91	0001	AL	O		<	0.01		0.01	-
	0508	08/28/91	0001	AL	O		<	0.01		0.01	-
	0508	12/05/91	0001	AL	O		<	0.1	I	0.1	-
	0508	10/10/92	0001	AL	O		<	0.02	I	0.02	-
	0509	07/17/86	0001	AL	O		<	0.01		0.01	-
	0509	10/14/87	0001	AL	O		<	0.01		0.01	-
	0509	03/27/91	0001	AL	O		<	0.01		0.01	-
	0509	08/28/91	0001	AL	O		<	0.01		0.01	-
	0509	11/21/91	0001	AL	O		<	0.01		0.01	-
	0509	10/13/92	0001	AL	O		<	0.005		0.005	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

2

16 J.D.-D.
6/15/93

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP REL.	UNITS OF MEASURE	PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ARSENIC	0510	06/30/86	0001	AL	0	<	0.01	0.01	-
	0510	10/14/87	0001	AL	0	<	0.01	0.01	-
	0510	05/16/90	0001	AL	0	<	0.01	0.01	-
	0510	03/28/91	0001	AL	0	<	0.01	0.01	-
	0510	12/05/91	0001	AL	0	<	0.1	0.1	-
	0510	10/08/92	0001	AL	0	<	0.005	0.005	-
BARIUM	0506	10/14/87	0001	AL	D	<	0.1	0.1	-
	0506	03/28/91	0001	AL	D		0.03	0.01	-
	0506	08/08/91	0001	AL	D		0.03	0.01	-
	0506	11/20/91	0001	AL	D		0.02	0.01	-
	0506	10/08/92	0001	AL	D		0.02	0.01	-
	0507	10/14/87	0001	AL	D	<	0.1	0.1	-
	0507	05/16/90	0001	AL	D	<	0.1	0.1	-
	0507	03/28/91	0001	AL	D		0.06	0.01	-
	0507	08/09/91	0001	AL	D		0.06	0.01	-
	0507	12/05/91	0001	AL	D		0.06	0.01	-
	0507	10/08/92	0001	AL	D		0.07	0.01	-
	0508	10/14/87	0001	AL	0	<	0.1	0.1	-
	0508	03/27/91	0001	AL	0		0.01	0.01	-
	0508	08/28/91	0001	AL	0		0.03	0.01	-
	0508	12/05/91	0001	AL	0		0.03	0.01	-
	0508	10/10/92	0001	AL	0		0.03	0.01	-
	0509	10/14/87	0001	AL	0	<	0.1	0.1	-
	0509	03/27/91	0001	AL	0		0.03	0.01	-
	0509	08/28/91	0001	AL	0		0.01	0.01	-
	0509	11/21/91	0001	AL	0		0.01	0.01	-
	0509	10/13/92	0001	AL	0		0.01	0.01	-
	0510	06/30/86	0001	AL	0		0.1	0.1	-
	0510	10/14/87	0001	AL	0		0.1	0.1	-
	0510	05/16/90	0001	AL	0	<	0.1	0.1	-
	0510	03/28/91	0001	AL	0		0.02	0.01	-
	0510	12/05/91	0001	AL	0		0.02	0.01	-
	0510	10/08/92	0001	AL	0		0.03	0.01	-
BERYLLIUM	0506	03/28/91	0001	AL	D	<	0.005	0.005	-
	0506	08/08/91	0001	AL	D	<	0.005	0.005	-
	0506	11/20/91	0001	AL	D	<	0.005	0.005	-
	0507	05/16/90	0001	AL	D	<	0.01	0.01	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
0 - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

6/15/93

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BERYLLIUM	0507	03/28/91	0001	AL	D	MG/L	< 0.005		0.005	-
	0507	08/09/91	0001	AL	D		< 0.005		0.005	-
	0507	12/05/91	0001	AL	D		< 0.005		0.005	-
	0508	03/27/91	0001	AL	O		< 0.005		0.005	-
	0508	08/28/91	0001	AL	O		< 0.005		0.005	-
	0508	12/05/91	0001	AL	O		< 0.005		0.005	-
	0509	03/27/91	0001	AL	O		< 0.005		0.005	-
	0509	08/28/91	0001	AL	O		< 0.005		0.005	-
	0509	11/21/91	0001	AL	O		< 0.005		0.005	-
	0510	05/16/90	0001	AL	O		< 0.01		0.01	-
	0510	03/28/91	0001	AL	O		< 0.005		0.005	-
	0510	12/05/91	0001	AL	O		< 0.005		0.005	-
BORON	0506	10/14/87	0001	AL	D	MG/L	0.5		0.1	-
	0506	03/28/91	0001	AL	D		0.40		0.05	-
	0506	08/08/91	0001	AL	D		0.47		0.05	-
	0506	11/20/91	0001	AL	D		0.46		0.05	-
	0507	10/14/87	0001	AL	D		0.5		0.1	-
	0507	05/16/90	0001	AL	D		0.4		0.1	-
	0507	03/28/91	0001	AL	D		0.35		0.05	-
	0507	08/09/91	0001	AL	D		0.38		0.05	-
	0507	12/05/91	0001	AL	D		0.37		0.05	-
	0508	10/14/87	0001	AL	O		0.5		0.1	-
	0508	03/27/91	0001	AL	O		0.16		0.05	-
	0508	08/28/91	0001	AL	O		0.48		0.05	-
	0508	12/05/91	0001	AL	O		0.46		0.05	-
	0509	10/14/87	0001	AL	O		0.2		0.1	-
	0509	03/27/91	0001	AL	O		0.42		0.05	-
	0509	08/28/91	0001	AL	O		0.20		0.05	-
	0509	11/21/91	0001	AL	O		0.19		0.05	-
	0510	06/30/86	0001	AL	O		< 0.1		0.1	-
	0510	10/14/87	0001	AL	O		0.4		0.1	-
	0510	05/16/90	0001	AL	O		0.5		0.1	-
	0510	03/28/91	0001	AL	O		0.45		0.05	-
	0510	12/05/91	0001	AL	O		0.46		0.05	-
BROMIDE	0506	03/28/91	0001	AL	D	MG/L	9.1		0.1	-
	0506	08/08/91	0001	AL	D		5.7		2.	-
	0506	11/20/91	0001	AL	D		3.9		1.	-
	0506	10/08/92	0001	AL	D		< 10.	I	10.	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

9

18 D.D.
6/15/8

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BROMIDE	0507	03/28/91	0001	AL	D	MG/L		0.1	-
	0507	08/09/91	0001	AL	D	0.8		0.5	-
	0507	12/05/91	0001	AL	D	0.5		0.1	-
	0507	10/08/92	0001	AL	D	0.6	I	0.6	-
	0508	03/27/91	0001	AL	O	0.3		0.1	-
	0508	08/28/91	0001	AL	O	5.0	I	5.	-
	0508	12/05/91	0001	AL	O	5.0	I	5.	-
	0508	10/10/92	0001	AL	O	0.1		0.1	-
	0509	03/27/91	0001	AL	O	3.2		0.1	-
	0509	08/28/91	0001	AL	O	1.0	I	1.	-
	0509	11/21/91	0001	AL	O	0.1		0.1	-
	0509	10/13/92	0001	AL	O	1.	I	1.	-
	0510	03/28/91	0001	AL	O	4.0		0.1	-
	0510	08/28/91	0001	AL	O	5.0	I	5.	-
	0510	12/05/91	0001	AL	O	4.0	I	4.	-
	0510	10/08/92	0001	AL	O	0.8	I	0.8	-
CADMIUM	0506	10/14/87	0001	AL	D	MG/L		0.001	-
	0506	03/28/91	0001	AL	D	0.0012		0.001	-
	0506	08/08/91	0001	AL	D	0.001		0.001	-
	0506	11/20/91	0001	AL	D	0.001		0.001	-
	0506	10/08/92	0001	AL	D	0.01	I	0.01	-
	0507	10/14/87	0001	AL	D	0.001		0.001	-
	0507	05/16/90	0001	AL	D	0.001		0.001	-
	0507	03/28/91	0001	AL	D	0.001		0.001	-
	0507	08/09/91	0001	AL	D	0.001		0.001	-
	0507	12/05/91	0001	AL	D	0.001		0.001	-
	0507	10/08/92	0001	AL	D	0.001		0.001	-
	0508	10/14/87	0001	AL	O	0.002		0.001	-
	0508	03/27/91	0001	AL	O	0.001		0.001	-
	0508	08/28/91	0001	AL	O	0.05	I	0.05	-
	0508	12/05/91	0001	AL	O	0.05	I	0.05	-
	0508	10/10/92	0001	AL	O	0.027		0.005	-
FORMATION OF COMPLETION CODE: AL - ALLUVIUM	0509	10/14/87	0001	AL	O	0.001		0.001	-
	0509	03/27/91	0001	AL	O	0.0080		0.001	-
	0509	08/28/91	0001	AL	O	0.001		0.001	-
	0509	11/21/91	0001	AL	O	0.001		0.001	-
	0509	10/13/92	0001	AL	O	0.001		0.001	-
	0510	06/30/86	0001	AL	O	0.001		0.001	-
FLOW RELATIONSHIP CODE: D - DOWN GRADIENT O - ON-SITE									
PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT									
SAMPLE ID CODES: 0001 - FILTERED SAMPLE (.45 MICRONS)									
OTHER PARAMETER VALUE FLAGS: I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION									

6/15/93

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CADMIUM	0510	10/14/87	0001	AL	O	MG/L		0.001		0.001	-
	0510	05/16/90	0001	AL	O		<	0.001		0.001	-
	0510	03/28/91	0001	AL	O			0.0010		0.001	-
	0510	12/05/91	0001	AL	O			0.001		0.001	-
	0510	10/08/92	0001	AL	O			0.001		0.001	-
CALCIUM	0506	07/01/86	0001	AL	D	MG/L		593.		0.01	-
	0506	10/14/87	0001	AL	D			500.		0.01	-
	0506	02/22/88	0001	AL	D			504.		0.01	-
	0506	03/28/91	0001	AL	D			970.		0.5	-
	0506	08/08/91	0001	AL	D			735.		2.	-
	0506	11/20/91	0001	AL	D			469.		0.5	-
	0506	10/08/92	0001	AL	D			670.		2.	-
	0507	06/30/86	0001	AL	D			173.		0.01	-
	0507	10/14/87	0001	AL	D			172.		0.01	-
	0507	02/22/88	0001	AL	D			155.		0.01	-
	0507	05/16/90	0001	AL	D			123.		0.01	-
	0507	03/28/91	0001	AL	D			135.		0.5	-
	0507	08/09/91	0001	AL	D			129.		0.5	-
	0507	12/05/91	0001	AL	D			111.		0.5	-
	0507	10/08/92	0001	AL	D			110.		0.5	-
	0508	06/30/86	0001	AL	O			541.		0.01	-
	0508	10/14/87	0001	AL	O			500.		0.01	-
	0508	02/19/88	0001	AL	O			520.		0.01	-
	0508	03/27/91	0001	AL	O			134.		0.5	-
	0508	08/28/91	0001	AL	O			443.		0.5	-
	0508	12/05/91	0001	AL	O			401.		0.5	-
	0508	10/10/92	0001	AL	O			470.		0.5	-
	0509	07/17/86	0001	AL	O			138.		0.01	-
	0509	10/14/87	0001	AL	O			168.		0.01	-
	0509	02/22/88	0001	AL	O			145.		0.01	-
	0509	03/27/91	0001	AL	O			426.		0.5	-
	0509	08/28/91	0001	AL	O			153.		0.5	-
	0509	11/21/91	0001	AL	O			149.		0.5	-
	0509	10/13/92	0001	AL	O			155.		0.5	-
	0510	06/30/86	0001	AL	O			590.		0.01	-
	0510	10/14/87	0001	AL	O			660.		0.01	-
	0510	02/22/88	0001	AL	O			541.		0.01	-
	0510	05/16/90	0001	AL	O			524.		0.01	-
	0510	03/28/91	0001	AL	O			590.		0.5	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

11

20 22.4.
6/15/93

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CALCIUM	0510	12/05/91	0001	AL	0	MG/L	520.		2.	-
	0510	10/08/92	0001	AL	0		520.		2.	-
CHLORIDE	0506	07/01/86	0001	AL	D	MG/L	810.		1.	-
	0506	10/14/87	0001	AL	D		500.		1.	-
	0506	02/22/88	0001	AL	D		500.		1.	-
	0506	03/28/91	0001	AL	D		3400.		1.	-
	0506	08/08/91	0001	AL	D		2660.		1.	-
	0506	11/20/91	0001	AL	D		1440.		8.	-
	0506	10/08/92	0001	AL	D		2420.		20.	-
	0507	06/30/86	0001	AL	D		200.		1.	-
	0507	10/14/87	0001	AL	D		118.		1.	-
	0507	02/22/88	0001	AL	D		100.		1.	-
	0507	05/16/90	0001	AL	D		83.		1.	-
	0507	03/28/91	0001	AL	D		104.		0.5	-
	0507	08/09/91	0001	AL	D		88.		1.	-
	0507	12/05/91	0001	AL	D		86.		1.	-
	0507	10/08/92	0001	AL	D		92.		1.	-
	0508	06/30/86	0001	AL	0		210.		1.	-
	0508	10/14/87	0001	AL	0		133.		1.	-
	0508	02/19/88	0001	AL	0		150.		1.	-
	0508	03/27/91	0001	AL	0		81.		0.5	-
	0508	08/28/91	0001	AL	0		127.		1.	-
	0508	12/05/91	0001	AL	0		124.		1.	-
	0508	10/10/92	0001	AL	0		122.		1.	-
	0509	07/17/86	0001	AL	0		71.		1.	-
	0509	10/14/87	0001	AL	0		71.		1.	-
	0509	02/22/88	0001	AL	0		74.		1.	-
	0509	03/27/91	0001	AL	0		127.		1.	-
	0509	08/28/91	0001	AL	0		87.		1.	-
	0509	11/21/91	0001	AL	0		91.		1.	-
	0509	10/13/92	0001	AL	0		85.		1.	-
	0510	06/30/86	0001	AL	0		150.		1.	-
	0510	10/14/87	0001	AL	0		138.		1.	-
	0510	02/22/88	0001	AL	0		150.		1.	-
	0510	05/16/90	0001	AL	0		132.		1.	-
	0510	03/28/91	0001	AL	0		127.		1.	-
	0510	08/28/91	0001	AL	0		127.		1.	-
	0510	12/05/91	0001	AL	0		133.		1.	-
	0510	10/08/92	0001	AL	0		127.		1.	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
0 - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

6/15/93

15

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CHROMIUM	0506	10/14/87	0001	AL	D	MG/L	<	0.01		0.01	.
	0506	03/28/91	0001	AL	D		<	0.01		0.01	.
	0506	08/08/91	0001	AL	D		<	0.01		0.01	.
	0506	11/20/91	0001	AL	D		<	0.01		0.01	.
	0506	10/08/92	0001	AL	D		<	0.02		0.01	.
	0507	10/14/87	0001	AL	D		<	0.01		0.01	.
	0507	05/16/90	0001	AL	D		<	0.01		0.01	.
	0507	03/28/91	0001	AL	D		<	0.01		0.01	.
	0507	08/09/91	0001	AL	D		<	0.01		0.01	.
	0507	12/05/91	0001	AL	D		<	0.01		0.01	.
	0507	10/08/92	0001	AL	D		<	0.01		0.01	.
	0508	10/14/87	0001	AL	O		<	0.01		0.01	.
	0508	03/27/91	0001	AL	O		<	0.01		0.01	.
	0508	08/28/91	0001	AL	O		<	0.01		0.01	.
	0508	12/05/91	0001	AL	O		<	0.01		0.01	.
	0508	10/10/92	0001	AL	O		<	0.01		0.01	.
	0509	10/14/87	0001	AL	O		<	0.01		0.01	.
	0509	03/27/91	0001	AL	O		<	0.01		0.01	.
	0509	08/28/91	0001	AL	O		<	0.01		0.01	.
	0509	11/21/91	0001	AL	O		<	0.01		0.01	.
	0510	06/30/86	0001	AL	O		<	0.01		0.01	.
COBALT	0510	10/14/87	0001	AL	O		<	0.05		0.01	.
	0510	05/16/90	0001	AL	O		<	0.01		0.01	.
	0510	03/28/91	0001	AL	O		<	0.01		0.01	.
	0510	12/05/91	0001	AL	O		<	0.01		0.01	.
	0510	10/08/92	0001	AL	O		<	0.01		0.01	.
	0506	03/28/91	0001	AL	D	MG/L	<	0.03		0.03	.
	0506	08/08/91	0001	AL	D		<	0.03		0.03	.
	0506	11/20/91	0001	AL	D		<	0.03		0.03	.
	0507	05/16/90	0001	AL	D		<	0.05		0.05	.
	0507	03/28/91	0001	AL	D		<	0.03		0.03	.

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

22 22
6/15/9

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
COBALT	0509	11/21/91	0001	AL	O	MG/L	<	0.03		0.03	-
	0510	05/16/90	0001	AL	O		<	0.05		0.05	-
	0510	03/28/91	0001	AL	O		<	0.03		0.03	-
	0510	12/05/91	0001	AL	O		<	0.03		0.03	-
COPPER	0506	10/14/87	0001	AL	D	MG/L	<	0.02		0.02	-
	0506	03/28/91	0001	AL	D		<	0.01		0.01	-
	0506	08/08/91	0001	AL	D		<	0.01		0.01	-
	0506	11/20/91	0001	AL	D		<	0.01		0.01	-
	0506	10/08/92	0001	AL	D		<	0.01		0.01	-
	0507	10/14/87	0001	AL	D		<	0.02		0.02	-
	0507	05/16/90	0001	AL	D		<	0.02		0.02	-
	0507	03/28/91	0001	AL	D		<	0.01		0.01	-
	0507	08/09/91	0001	AL	D		<	0.01		0.01	-
	0507	12/05/91	0001	AL	D		<	0.01		0.01	-
	0507	10/08/92	0001	AL	D		<	0.01		0.01	-
	0508	10/14/87	0001	AL	O		<	0.02		0.02	-
	0508	03/27/91	0001	AL	O		<	0.01		0.01	-
	0508	08/28/91	0001	AL	O		<	0.01		0.01	-
	0508	12/05/91	0001	AL	O		<	0.01		0.01	-
	0508	10/10/92	0001	AL	O		<	0.01		0.01	-
	0509	10/14/87	0001	AL	O		<	0.02		0.02	-
	0509	03/27/91	0001	AL	O		<	0.01		0.01	-
	0509	08/28/91	0001	AL	O		<	0.01		0.01	-
	0509	11/21/91	0001	AL	O		<	0.01		0.01	-
	0509	10/13/92	0001	AL	O		<	0.01		0.01	-
	0510	06/30/86	0001	AL	O			0.06		0.02	-
	0510	10/14/87	0001	AL	O		<	0.02		0.02	-
	0510	05/16/90	0001	AL	O		<	0.02		0.02	-
	0510	03/28/91	0001	AL	O		<	0.01		0.01	-
	0510	12/05/91	0001	AL	O		<	0.01		0.01	-
	0510	10/08/92	0001	AL	O		<	0.01		0.01	-
CYANIDE	0506	03/28/91	0001	AL	D	MG/L	<	0.01		0.01	-
	0506	08/08/91	0001	AL	D		<	0.01		0.01	-
	0506	11/20/91	0001	AL	D		<	0.01		0.01	-
	0507	03/28/91	0001	AL	D		<	0.01		0.01	-
	0507	08/09/91	0001	AL	D		<	0.01		0.01	-
	0507	12/05/91	0001	AL	D		<	0.01		0.01	-
	0508	03/27/91	0001	AL	O		<	0.01		0.01	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

14

6/15/93

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CYANIDE	0508	08/28/91	0001	AL	O	MG/L	<	0.01		0.01	-
	0508	12/05/91	0001	AL	O		<	0.01		0.01	-
	0509	03/27/91	0001	AL	O		<	0.01		0.01	-
	0509	08/28/91	0001	AL	O		<	0.01		0.01	-
	0509	11/21/91	0001	AL	O		<	0.01		0.01	-
	0510	03/28/91	0001	AL	O		<	0.01		0.01	-
	0510	08/28/91	0001	AL	O		<	0.01		0.01	-
	0510	12/05/91	0001	AL	O		<	0.01		0.01	-
DISSOLVED OXYGEN	0506	10/08/92	0001	AL	D	MG/L		0.2		-	-
	0507	10/08/92	0001	AL	D			0.0		-	-
	0508	10/10/92	0001	AL	O			0.0		-	-
	0509	10/13/92	0001	AL	O			0.0		-	-
	0510	10/08/92	0001	AL	O			0.2		-	-
FIELD FE (2+)	0506	10/08/92	0001	AL	D	MG/L		3.37		-	-
	0507	10/08/92	0001	AL	D			2.43		-	-
	0508	10/10/92	0001	AL	O			0.01		-	-
	0509	10/13/92	0001	AL	O			0.0		-	-
FIELD FE (TOTAL)	0506	10/08/92	0001	AL	D	MG/L		5.42		-	-
	0509	10/13/92	0001	AL	O			0.1		-	-
FLUORIDE	0506	10/14/87	0001	AL	D	MG/L		0.2		0.1	-
	0506	02/22/88	0001	AL	D			0.19		0.1	-
	0506	03/28/91	0001	AL	D			0.7		0.1	-
	0506	08/08/91	0001	AL	D			0.3		0.1	-
	0506	11/20/91	0001	AL	D			0.2		0.1	-
	0506	10/08/92	0001	AL	D			0.2		0.1	-
	0507	10/14/87	0001	AL	D			0.4		0.1	-
	0507	02/22/88	0001	AL	D			0.45		0.1	-
	0507	05/16/90	0001	AL	D			0.6		0.1	-
	0507	03/28/91	0001	AL	D			0.6		0.1	-
	0507	08/09/91	0001	AL	D			0.7		0.1	-
	0507	12/05/91	0001	AL	D			0.6		0.1	-
	0507	10/08/92	0001	AL	D			0.7		0.1	-
	0508	10/14/87	0001	AL	O			0.4		0.1	-
	0508	02/19/88	0001	AL	O			0.38		0.1	-
	0508	03/27/91	0001	AL	O			0.2		0.1	-
	0508	08/28/91	0001	AL	O			0.4		0.1	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

15

29 21
6/15/93

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 - SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
FLUORIDE	0508	12/05/91	0001	AL	O	MG/L	0.4		0.1	-
	0508	10/10/92	0001	AL	O		0.5		0.1	-
	0509	10/14/87	0001	AL	O		0.2		0.1	-
	0509	02/22/88	0001	AL	O		0.28		0.1	-
	0509	03/27/91	0001	AL	O		0.4		0.1	-
	0509	08/28/91	0001	AL	O		0.3		0.1	-
	0509	11/21/91	0001	AL	O		0.2		0.1	-
	0509	10/13/92	0001	AL	O		0.3		0.1	-
	0510	06/30/86	0001	AL	O		0.4		0.1	-
	0510	10/14/87	0001	AL	O		0.3		0.1	-
	0510	02/22/88	0001	AL	O		0.34		0.1	-
	0510	05/16/90	0001	AL	O		0.3		0.1	-
	0510	03/28/91	0001	AL	O		0.3		0.1	-
	0510	08/28/91	0001	AL	O		0.3		0.1	-
	0510	12/05/91	0001	AL	O		0.4		0.1	-
	0510	10/08/92	0001	AL	O		0.4		0.1	-
GROSS ALPHA	0506	03/28/91	0001	AL	D	PCI/L	191.		1.	140.
	0506	08/08/91	0001	AL	D		23.0		1.	71.2
	0506	12/05/91	0001	AL	D		0.0		1.	116.
	0506	10/08/92	0001	AL	D		189.		82.4	74.3
	0507	03/28/91	0001	AL	D		41.0		1.	17.0
	0507	08/09/91	0001	AL	D		30.6		1.	13.6
	0507	12/05/91	0001	AL	D		19.3		1.	26.0
	0507	10/08/92	0001	AL	D		5.0		6.4	4.6
	0508	03/27/91	0001	AL	O		63.2		1.	23.2
	0508	08/28/91	0001	AL	O		67.2		1.	34.2
	0508	12/05/91	0001	AL	O		0.0		1.	62.4
	0508	10/10/92	0001	AL	O		23.1	N	48.4	31.6
	0509	03/27/91	0001	AL	O		111.		1.	70.7
	0509	08/28/91	0001	AL	O		23.5		1.	12.0
	0509	12/05/91	0001	AL	O		19.0		1.	23.8
	0509	10/13/92	0001	AL	O		16.1	N	20.2	13.9
	0510	03/28/91	0001	AL	O		132.		1.	73.1
	0510	08/28/91	0001	AL	O		84.2		1.	37.6
	0510	12/05/91	0001	AL	O		0.0		1.	57.9
	0510	10/08/92	0001	AL	O		118.		41.2	40.0
GROSS BETA	0506	03/28/91	0001	AL	D	PCI/L	165.		0.5	84.5

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS

6/15/93

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
GROSS BETA	0506	08/08/91	0001	AL	D	PCI/L		16.1		0.5	55.5
	0506	12/05/91	0001	AL	D			0.0		0.5	79.1
	0506	10/08/92	0001	AL	D			145.		63.8	45.1
	0507	03/28/91	0001	AL	D			23.4		0.5	8.6
	0507	08/09/91	0001	AL	D			19.8		0.5	8.7
	0507	12/05/91	0001	AL	D			0.0		0.5	15.3
	0507	10/08/92	0001	AL	D			11.8		7.8	5.2
	0508	03/27/91	0001	AL	O			42.8		0.5	11.6
	0508	08/28/91	0001	AL	O			54.1		0.5	19.4
	0508	12/05/91	0001	AL	O			0.0		0.5	40.4
	0508	10/10/92	0001	AL	O			25.1	*N	41.0	25.5
	0509	03/27/91	0001	AL	O			87.7		0.5	45.5
	0509	08/28/91	0001	AL	O			23.6		0.5	6.9
	0509	12/05/91	0001	AL	O			4.9		0.5	15.0
	0509	10/13/92	0001	AL	O			37.5	*N	16.6	11.5
	0510	03/28/91	0001	AL	O			128.		0.5	47.5
	0510	08/28/91	0001	AL	O			86.3		0.5	21.8
	0510	12/05/91	0001	AL	O			0.0		0.5	38.2
	0510	10/08/92	0001	AL	O			48.8		31.9	21.5
IRON	0506	07/01/86	0001	AL	D	MG/L		6.23		0.03	-
	0506	10/14/87	0001	AL	D			9.7		0.03	-
	0506	02/22/88	0001	AL	D			12.3		0.03	-
	0506	03/28/91	0001	AL	D			4.17		0.03	-
	0506	08/08/91	0001	AL	D			14.2		0.03	-
	0506	11/20/91	0001	AL	D			12.6		0.03	-
	0506	10/08/92	0001	AL	D			3.21		0.03	-
	0507	06/30/86	0001	AL	D			2.11		0.03	-
	0507	10/14/87	0001	AL	D			2.71		0.03	-
	0507	02/22/88	0001	AL	D			2.43		0.03	-
	0507	05/16/90	0001	AL	D			2.44		0.03	-
	0507	03/28/91	0001	AL	D			2.46		0.03	-
	0507	08/09/91	0001	AL	D			2.89		0.03	-
	0507	12/05/91	0001	AL	D			2.68		0.03	-
	0507	10/08/92	0001	AL	D			2.62		0.03	-
	0508	06/30/86	0001	AL	O			0.08		0.03	-
	0508	10/14/87	0001	AL	O		<	0.03		0.03	-
	0508	02/19/88	0001	AL	O			0.16		0.03	-
	0508	03/27/91	0001	AL	O		<	0.03		0.03	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
* - DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS
N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS

17

20. 28. 2. 6/15/93

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
IRON	0508	08/28/91	0001	AL	0	MG/L	<	0.03		0.03	-
	0508	12/05/91	0001	AL	0		<	0.03		0.03	-
	0508	10/10/92	0001	AL	0		<	0.03		0.03	-
	0509	07/17/86	0001	AL	0		<	0.05		0.03	-
	0509	10/14/87	0001	AL	0		<	0.03		0.03	-
	0509	02/22/88	0001	AL	0		<	0.05		0.03	-
	0509	03/27/91	0001	AL	0		<	0.03		0.03	-
	0509	08/28/91	0001	AL	0		<	0.03		0.03	-
	0509	11/21/91	0001	AL	0		<	0.03		0.03	-
	0509	10/13/92	0001	AL	0		<	0.03		0.03	-
	0510	06/30/86	0001	AL	0		<	0.07		0.03	-
	0510	10/14/87	0001	AL	0		<	0.03		0.03	-
	0510	02/22/88	0001	AL	0		<	0.14		0.03	-
	0510	05/16/90	0001	AL	0		<	0.11		0.03	-
	0510	03/28/91	0001	AL	0		<	0.03		0.03	-
	0510	12/05/91	0001	AL	0		<	0.03		0.03	-
	0510	10/08/92	0001	AL	0		<	0.03		0.03	-
LEAD	0506	10/14/87	0001	AL	0	MG/L	<	0.01		0.01	-
	0506	03/28/91	0001	AL	0		<	0.005		0.005	-
	0506	08/08/91	0001	AL	0		<	0.05	I	0.05	-
	0506	11/20/91	0001	AL	0		<	0.005		0.005	-
	0506	10/08/92	0001	AL	0		<	0.03	I	0.03	-
	0507	10/14/87	0001	AL	0		<	0.01		0.01	-
	0507	05/16/90	0001	AL	0		<	0.01		0.01	-
	0507	03/28/91	0001	AL	0		<	0.005		0.005	-
	0507	08/09/91	0001	AL	0		<	0.005		0.005	-
	0507	12/05/91	0001	AL	0		<	0.005		0.005	-
	0507	10/08/92	0001	AL	0		<	0.02	I	0.02	-
	0508	10/14/87	0001	AL	0		<	0.01		0.01	-
	0508	03/27/91	0001	AL	0		<	0.005		0.005	-
	0508	08/28/91	0001	AL	0		<	0.005		0.005	-
	0508	12/05/91	0001	AL	0		<	0.03	I	0.03	-
	0509	10/10/92	0001	AL	0		<	0.02	I	0.02	-
	0509	10/14/87	0001	AL	0		<	0.01		0.01	-
	0509	03/27/91	0001	AL	0		<	0.005		0.005	-
	0509	08/28/91	0001	AL	0		<	0.005		0.005	-
	0509	11/21/91	0001	AL	0		<	0.03	I	0.03	-
	0509	10/13/92	0001	AL	0		<	0.02	I	0.02	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
0 - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
LEAD	0510	06/30/86	0001	AL	O	MG/L	<	0.01		0.01	-
	0510	10/14/87	0001	AL	O		<	0.01		0.01	-
	0510	05/16/90	0001	AL	O		<	0.01		0.01	-
	0510	03/28/91	0001	AL	O		<	0.005		0.005	-
	0510	12/05/91	0001	AL	O		<	0.03	I	0.03	-
	0510	10/08/92	0001	AL	O		<	0.02	I	0.02	-
LEAD-210	0506	08/08/91	0001	AL	D	PCI/L		3.5		1.5	1.0
	0506	12/05/91	0001	AL	D			2.9		1.5	1.0
	0507	08/09/91	0001	AL	D			2.3		1.5	0.9
	0507	12/05/91	0001	AL	D			2.8		1.5	1.0
	0508	08/28/91	0001	AL	O			2.7		1.5	1.1
	0508	12/05/91	0001	AL	O			5.5		1.5	1.1
	0509	08/28/91	0001	AL	O			0.7		1.5	1.0
	0509	12/05/91	0001	AL	O			1.4		1.5	0.9
	0510	06/30/86	0001	AL	O			1.9		1.5	1.1
	0510	08/28/91	0001	AL	O			5.0		1.5	1.2
	0510	12/05/91	0001	AL	O			6.5		1.5	1.1
MAGNESIUM	0506	07/01/86	0001	AL	D	MG/L		339.		0.001	-
	0506	10/14/87	0001	AL	D			360.		0.001	-
	0506	02/22/88	0001	AL	D			368.		0.001	-
	0506	03/28/91	0001	AL	D			625.		0.5	-
	0506	08/08/91	0001	AL	D			535.		2.	-
	0506	11/20/91	0001	AL	D			327.		0.5	-
	0506	10/08/92	0001	AL	D			434.		0.5	-
	0507	06/30/86	0001	AL	D			81.4		0.001	-
	0507	10/14/87	0001	AL	D			88.		0.001	-
	0507	02/22/88	0001	AL	D			79.6		0.001	-
	0507	05/16/90	0001	AL	D			68.0		0.001	-
	0507	03/28/91	0001	AL	D			86.4		0.5	-
	0507	08/09/91	0001	AL	D			83.5		0.5	-
	0507	12/05/91	0001	AL	D			74.7		0.5	-
	0507	10/08/92	0001	AL	D			74.4		0.5	-
	0508	06/30/86	0001	AL	O			258.		0.001	-
	0508	10/14/87	0001	AL	O			241.		0.001	-
	0508	02/19/88	0001	AL	O			218.		0.001	-
	0508	03/27/91	0001	AL	O			70.3		0.5	-
	0508	08/28/91	0001	AL	O			207.		0.5	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

28 J.D.
6/15/4

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MAGNESIUM	0508	12/05/91	0001	AL	O	MG/L	188.		0.5	-
	0508	10/10/92	0001	AL	O		209.		0.5	-
	0509	07/17/86	0001	AL	O		49.		0.001	-
	0509	10/14/87	0001	AL	O		76.		0.001	-
	0509	02/22/88	0001	AL	O		64.5		0.001	-
	0509	03/27/91	0001	AL	O		201.		0.5	-
	0509	08/28/91	0001	AL	O		81.7		0.5	-
	0509	11/21/91	0001	AL	O		82.6		0.5	-
	0509	10/13/92	0001	AL	O		79.5		0.5	-
	0510	06/30/86	0001	AL	O		200.		0.001	-
	0510	10/14/87	0001	AL	O		270.		0.001	-
	0510	02/22/88	0001	AL	O		230.		0.001	-
	0510	05/16/90	0001	AL	O		210.		0.001	-
	0510	03/28/91	0001	AL	O		222.		0.5	-
	0510	12/05/91	0001	AL	O		194.		0.5	-
	0510	10/08/92	0001	AL	O		172.		0.5	-
MANGANESE	0506	07/01/86	0001	AL	D	MG/L	6.12		0.01	-
	0506	10/14/87	0001	AL	D		4.66		0.01	-
	0506	02/22/88	0001	AL	D		4.97		0.01	-
	0506	03/28/91	0001	AL	D		5.37		0.01	-
	0506	08/08/91	0001	AL	D		4.77		0.01	-
	0506	11/20/91	0001	AL	D		2.88		0.01	-
	0506	10/08/92	0001	AL	D		4.02		0.01	-
	0507	06/30/86	0001	AL	D		1.39		0.01	-
	0507	10/14/87	0001	AL	D		1.03		0.01	-
	0507	02/22/88	0001	AL	D		0.99		0.01	-
	0507	05/16/90	0001	AL	D		0.81		0.01	-
	0507	03/28/91	0001	AL	D		0.83		0.01	-
	0507	08/09/91	0001	AL	D		0.75		0.01	-
	0507	12/05/91	0001	AL	D		0.64		0.01	-
	0507	10/08/92	0001	AL	D		0.75		0.01	-
	0508	06/30/86	0001	AL	O		7.49		0.01	-
	0508	10/14/87	0001	AL	O		6.4		0.01	-
	0508	02/19/88	0001	AL	O		6.32		0.01	-
	0508	03/27/91	0001	AL	O		0.25		0.01	-
	0508	08/28/91	0001	AL	O		5.66		0.01	-
	0508	12/05/91	0001	AL	O		5.39		0.01	-
	0508	10/10/92	0001	AL	O		5.60		0.01	-
	0509	07/17/86	0001	AL	O		0.12		0.01	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

20

20 22.
6/15/93

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MANGANESE	0509	10/14/87	0001	AL	O	MG/L		0.22		0.01	-
	0509	02/22/88	0001	AL	O			0.22		0.01	-
	0509	03/27/91	0001	AL	O			5.65		0.01	-
	0509	08/28/91	0001	AL	O			0.29		0.01	-
	0509	11/21/91	0001	AL	O			0.31		0.01	-
	0509	10/13/92	0001	AL	O			0.26		0.01	-
	0510	06/30/86	0001	AL	O			4.66		0.01	-
	0510	10/14/87	0001	AL	O			6.9		0.01	-
	0510	02/22/88	0001	AL	O			6.78		0.01	-
	0510	05/16/90	0001	AL	O			6.56		0.01	-
	0510	03/28/91	0001	AL	O			6.44		0.01	-
	0510	12/05/91	0001	AL	O			5.60		0.01	-
	0510	10/08/92	0001	AL	O			5.68		0.01	-
MERCURY	0506	10/14/87	0001	AL	D	MG/L	<	0.0002		0.0002	-
	0506	03/28/91	0001	AL	D		<	0.0002		0.0002	-
	0506	08/08/91	0001	AL	D		<	0.0002		0.0002	-
	0506	11/20/91	0001	AL	D		<	0.0002		0.0002	-
	0507	10/14/87	0001	AL	D		<	0.0002		0.0002	-
	0507	05/16/90	0001	AL	D		<	0.0002		0.0002	-
	0507	03/28/91	0001	AL	D		<	0.0002		0.0002	-
	0507	08/09/91	0001	AL	D		<	0.0002		0.0002	-
	0507	12/05/91	0001	AL	D		<	0.0002		0.0002	-
	0508	10/14/87	0001	AL	O		<	0.0002		0.0002	-
	0508	03/27/91	0001	AL	O		<	0.0002		0.0002	-
	0508	08/28/91	0001	AL	O		<	0.0002		0.0002	-
	0508	12/05/91	0001	AL	O		<	0.0002		0.0002	-
	0509	10/14/87	0001	AL	O		<	0.0002		0.0002	-
	0509	03/27/91	0001	AL	O		<	0.0002		0.0002	-
	0509	08/28/91	0001	AL	O		<	0.0002		0.0002	-
	0509	11/21/91	0001	AL	O		<	0.0002		0.0002	-
	0510	06/30/86	0001	AL	O		<	0.0002		0.0002	-
	0510	10/14/87	0001	AL	O		<	0.0002		0.0002	-
	0510	05/16/90	0001	AL	O		<	0.0002		0.0002	-
	0510	03/28/91	0001	AL	O		<	0.0002		0.0002	-
	0510	12/05/91	0001	AL	O		<	0.0002		0.0002	-
MOLYBDENUM	0506	07/01/86	0001	AL	D	MG/L		0.17		0.01	-
	0506	10/14/87	0001	AL	D			0.04		0.01	-
	0506	02/22/88	0001	AL	D			0.32		0.01	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

30 20.
6/15/92

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MOLYBDENUM	0506	03/28/91	0001	AL	D	MG/L		0.02		0.01	-
	0506	08/08/91	0001	AL	D			0.04		0.01	-
	0506	11/20/91	0001	AL	D			0.04		0.01	-
	0506	10/08/92	0001	AL	D			0.05		0.01	-
	0507	06/30/86	0001	AL	D			0.14		0.01	-
	0507	10/14/87	0001	AL	D			0.01		0.01	-
	0507	02/22/88	0001	AL	D			0.08		0.01	-
	0507	05/16/90	0001	AL	D			0.04		0.01	-
	0507	03/28/91	0001	AL	D			0.02		0.01	-
	0507	08/09/91	0001	AL	D			0.02		0.01	-
	0507	12/05/91	0001	AL	D			0.02		0.01	-
	0507	10/08/92	0001	AL	D			0.02		0.01	-
	0508	06/30/86	0001	AL	O			2.43		0.01	-
	0508	10/14/87	0001	AL	O			1.72		0.01	-
	0508	02/19/88	0001	AL	O			1.72		0.01	-
	0508	03/27/91	0001	AL	O			0.26		0.01	-
	0508	08/28/91	0001	AL	O			1.37		0.01	-
	0508	12/05/91	0001	AL	O			1.28		0.01	-
	0508	10/10/92	0001	AL	O			1.33		0.01	-
	0509	07/17/86	0001	AL	O			0.38		0.01	-
	0509	10/14/87	0001	AL	O			0.27		0.01	-
	0509	02/22/88	0001	AL	O			0.33		0.01	-
	0509	03/27/91	0001	AL	O			1.28		0.01	-
	0509	08/28/91	0001	AL	O			0.28		0.01	-
	0509	11/21/91	0001	AL	O			0.29		0.01	-
	0509	10/13/92	0001	AL	O			0.26		0.01	-
	0510	06/30/86	0001	AL	O			1.09		0.01	-
	0510	10/14/87	0001	AL	O			1.00		0.01	-
	0510	02/22/88	0001	AL	O			1.38		0.01	-
	0510	05/16/90	0001	AL	O			0.99		0.01	-
	0510	03/28/91	0001	AL	O			0.81		0.01	-
	0510	12/05/91	0001	AL	O			0.67		0.01	-
	0510	10/08/92	0001	AL	O			0.88		0.01	-
NET GROSS ALPHA *	0506	03/28/91	0001	AL	D	PCI/L		149.84		-	-
	0506	08/08/91	0001	AL	D			-4.44		-	-
	0506	12/05/91	0001	AL	D			-21.27		-	-
	0506	10/08/92	0001	AL	D			133.43		-	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

6/15/93

TABLE 1. ON-SITE AND DOWNGRAIDENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NET GROSS ALPHA *	0507	03/28/91	0001	AL	D	PCI/L	21.11		-	-
	0507	08/09/91	0001	AL	D		7.28		-	-
	0507	12/05/91	0001	AL	D		0.78		-	-
	0507	10/08/92	0001	AL	D		-14.21		-	-
	0508	03/27/91	0001	AL	O		48.79		-	-
	0508	08/28/91	0001	AL	O		17.12		-	-
	0508	12/05/91	0001	AL	O		-70.66		-	-
	0508	10/10/92	0001	AL	O		-48.24		-	-
	0509	03/27/91	0001	AL	O		57.49		-	-
	0509	08/28/91	0001	AL	O		4.98		-	-
	0509	12/05/91	0001	AL	O		3.91		-	-
	0509	10/13/92	0001	AL	O		-0.36		-	-
	0510	03/28/91	0001	AL	O		68.89		-	-
	0510	08/28/91	0001	AL	O		7.37		-	-
	0510	12/05/91	0001	AL	O		-90.55		-	-
	0510	10/08/92	0001	AL	O		14.41		-	-
NICKEL	0506	10/14/87	0001	AL	D	MG/L	< 0.04		0.04	-
	0506	02/22/88	0001	AL	D		0.11		0.04	-
	0506	03/28/91	0001	AL	D		< 0.04		0.04	-
	0506	08/08/91	0001	AL	D		< 0.04		0.04	-
	0506	11/20/91	0001	AL	D		< 0.04		0.04	-
	0506	10/08/92	0001	AL	D		< 0.04		0.04	-
	0507	10/14/87	0001	AL	D		< 0.04		0.04	-
	0507	02/22/88	0001	AL	D		0.03	c	0.03	-
	0507	05/16/90	0001	AL	D		< 0.04		0.04	-
	0507	03/28/91	0001	AL	D		< 0.04		0.04	-
	0507	08/09/91	0001	AL	D		< 0.04		0.04	-
	0507	12/05/91	0001	AL	D		< 0.04		0.04	-
	0507	10/08/92	0001	AL	D		< 0.04		0.04	-
	0508	10/14/87	0001	AL	O		< 0.04		0.04	-
	0508	02/19/88	0001	AL	O		0.09		0.04	-
	0508	03/27/91	0001	AL	O		< 0.04		0.04	-
	0508	08/28/91	0001	AL	O		< 0.04		0.04	-
	0508	12/05/91	0001	AL	O		< 0.04		0.04	-
	0508	10/10/92	0001	AL	O		< 0.04		0.04	-
	0509	10/14/87	0001	AL	O		< 0.04		0.04	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

23

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NICKEL	0509	02/22/88	0001	AL	O	MG/L		0.03	c	0.03	-
	0509	03/27/91	0001	AL	O		<	0.04		0.04	-
	0509	08/28/91	0001	AL	O		<	0.04		0.04	-
	0509	11/21/91	0001	AL	O		<	0.04		0.04	-
	0509	10/13/92	0001	AL	O		<	0.04		0.04	-
	0510	06/30/86	0001	AL	O			0.09		0.04	-
	0510	10/14/87	0001	AL	O		<	0.04		0.04	-
	0510	02/22/88	0001	AL	O			0.10		0.04	-
	0510	05/16/90	0001	AL	O		<	0.04		0.04	-
	0510	03/28/91	0001	AL	O			0.04		0.04	-
	0510	12/05/91	0001	AL	O		<	0.04		0.04	-
	0510	10/08/92	0001	AL	O		<	0.04		0.04	-
NITRATE	0506	07/01/86	0001	AL	D	MG/L	<	1.		1.	-
	0506	10/14/87	0001	AL	D			27.		1.	-
	0506	02/22/88	0001	AL	D			8.4		1.	-
	0506	03/28/91	0001	AL	D			110.		1.	-
	0506	08/08/91	0001	AL	D			3.5		1.	-
	0506	11/20/91	0001	AL	D			7.5		1.	-
	0506	10/08/92	0001	AL	D			12.8		4.0	-
	0507	06/30/86	0001	AL	D		<	1.		1.	-
	0507	10/14/87	0001	AL	D		<	1.0		1.	-
	0507	02/22/88	0001	AL	D			7.5		1.	-
	0507	05/16/90	0001	AL	D		<	1.		1.	-
	0507	03/28/91	0001	AL	D		<	1.0		1.	-
	0507	08/09/91	0001	AL	D		<	1.0		1.	-
	0507	12/05/91	0001	AL	D		<	1.0		1.	-
	0507	10/08/92	0001	AL	D			6.8		1.0	-
	0508	06/30/86	0001	AL	O			290.		1.	-
	0508	10/14/87	0001	AL	O			1250.		1.	-
	0508	02/19/88	0001	AL	O			1220.		1.	-
	0508	03/27/91	0001	AL	O			32.9		1.	-
	0508	08/28/91	0001	AL	O			1040.		75.	-
	0508	12/05/91	0001	AL	O			1200.		125.	-
	0508	10/10/92	0001	AL	O			1360.		150.	-
	0509	07/17/86	0001	AL	O			5.		1.	-
	0509	10/14/87	0001	AL	O			42.		1.	-
	0509	02/22/88	0001	AL	O			35.		1.	-
	0509	03/27/91	0001	AL	O			1050.		1.	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

6/15/93

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NITRATE	0509	08/28/91	0001	AL	O	MG/L		28.3		5.	-
	0509	11/21/91	0001	AL	O			19.5		1.	-
	0509	10/13/92	0001	AL	O			34.		5.	-
	0510	06/30/86	0001	AL	O			1000.		1.	-
	0510	10/14/87	0001	AL	O			1620.		1.	-
	0510	02/22/88	0001	AL	O			1190.		1.	-
	0510	05/16/90	0001	AL	O			1000.		1.	-
	0510	03/28/91	0001	AL	O			943.		1.	-
	0510	08/28/91	0001	AL	O			947.		75.	-
	0510	12/05/91	0001	AL	O			837.		125.	-
	0510	10/08/92	0001	AL	O			257.		10.	-
NITRITE AND NITRATE	0506	02/22/88	0001	AL	D	MG/L		5.5		1.	-
	0506	03/28/91	0001	AL	D			25.1		0.05	-
	0506	08/08/91	0001	AL	D			0.81		0.05	-
	0507	02/22/88	0001	AL	D		<	0.1		1.	-
	0507	05/16/90	0001	AL	D		<	1.		1.	-
	0507	03/28/91	0001	AL	D			0.13		0.05	-
	0507	08/09/91	0001	AL	D			0.08		0.05	-
	0508	02/19/88	0001	AL	O			1320.		1.	-
	0508	03/27/91	0001	AL	O			7.45		0.05	-
	0508	08/28/91	0001	AL	O			236.		3.75	-
	0509	02/22/88	0001	AL	O			35.		1.	-
	0509	03/27/91	0001	AL	O			238.		0.05	-
	0509	08/28/91	0001	AL	O			6.40		0.25	-
	0510	02/22/88	0001	AL	O			1190.		1.	-
	0510	05/16/90	0001	AL	O			226.		1.	-
	0510	03/28/91	0001	AL	O			213.		0.05	-
	0510	08/28/91	0001	AL	O			214.		3.75	-
PH	0506	07/01/86	0001	AL	D	SU		6.76		-	-
	0506	10/14/87	0001	AL	D			6.76		-	-
	0506	02/22/88	0001	AL	D			6.64		-	-
	0506	03/28/91	0001	AL	D			6.49		-	-
	0506	08/08/91	0001	AL	D			6.27		-	-
	0506	12/05/91	0001	AL	D			6.67		-	-
	0506	10/08/92	0001	AL	D			6.57		-	-
	0507	06/30/86	0001	AL	D			7.01		-	-
	0507	10/14/87	0001	AL	D			7.07		-	-
	0507	02/22/88	0001	AL	D			6.87		-	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

25

34 W.A.
6/15/

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PH	0507	05/16/90	0001	AL	D	SU	7.11		-	-
	0507	03/28/91	0001	AL	D		6.93		-	-
	0507	08/09/91	0001	AL	D		7.01		-	-
	0507	12/05/91	0001	AL	D		7.14		-	-
	0507	10/08/92	0001	AL	D		7.03		-	-
	0508	06/30/86	0001	AL	O		6.73		-	-
	0508	10/14/87	0001	AL	O		6.50		-	-
	0508	02/19/88	0001	AL	O		6.80		-	-
	0508	03/27/91	0001	AL	O		6.64		-	-
	0508	08/28/91	0001	AL	O		6.58		-	-
	0508	12/05/91	0001	AL	O		6.65		-	-
	0508	10/10/92	0001	AL	O		6.74		-	-
	0509	07/17/86	0001	AL	O		6.9		-	-
	0509	10/14/87	0001	AL	O		6.90		-	-
	0509	02/22/88	0001	AL	O		7.18		-	-
	0509	03/27/91	0001	AL	O		7.27		-	-
	0509	08/28/91	0001	AL	O		7.22		-	-
	0509	12/05/91	0001	AL	O		7.32		-	-
	0509	10/13/92	0001	AL	O		7.18		-	-
	0510	06/30/86	0001	AL	O		6.6		-	-
	0510	10/14/87	0001	AL	O		6.51		-	-
	0510	02/22/88	0001	AL	O		6.42		-	-
	0510	05/16/90	0001	AL	O		6.08		-	-
	0510	03/28/91	0001	AL	O		6.37		-	-
	0510	08/28/91	0001	AL	O		6.39		-	-
	0510	12/05/91	0001	AL	O		6.53		-	-
	0510	10/08/92	0001	AL	O		6.48		-	-
PHOSPHATE	0506	10/14/87	0001	AL	D	MG/L	< 0.1		0.1	-
	0506	03/28/91	0001	AL	D		< 0.1		0.1	-
	0506	08/08/91	0001	AL	D		< 0.1		0.1	-
	0506	11/20/91	0001	AL	D		0.1		0.1	-
	0506	10/08/92	0001	AL	D		0.1	J	0.1	-
	0507	10/14/87	0001	AL	D		< 0.1		0.1	-
	0507	05/16/90	0001	AL	D		< 0.1		0.1	-
	0507	03/28/91	0001	AL	D		< 0.1		0.1	-
	0507	08/09/91	0001	AL	D		0.1		0.1	-
	0507	12/05/91	0001	AL	D		0.1		0.01	-
	0507	10/08/92	0001	AL	D		0.1	J	0.1	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE

55 JJJ.
6/15/93

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PHOSPHATE	0508	10/14/87	0001	AL	O	MG/L	<	0.1		0.1	-
	0508	03/27/91	0001	AL	O		<	0.1		0.1	-
	0508	08/28/91	0001	AL	O			0.1		0.1	-
	0508	12/05/91	0001	AL	O			0.1		0.01	-
	0508	10/10/92	0001	AL	O			0.1	J	0.1	-
	0509	10/14/87	0001	AL	O		<	0.1		0.1	-
	0509	03/27/91	0001	AL	O			0.1		0.1	-
	0509	08/28/91	0001	AL	O		<	0.1		0.1	-
	0509	11/21/91	0001	AL	O			0.1		0.1	-
	0509	10/13/92	0001	AL	O		<	0.1	J	0.1	-
	0510	06/30/86	0001	AL	O		<	0.1		0.1	-
	0510	10/14/87	0001	AL	O		<	0.1		0.1	-
	0510	05/16/90	0001	AL	O		<	0.1		0.1	-
	0510	03/28/91	0001	AL	O			0.1		0.1	-
	0510	08/28/91	0001	AL	O			0.1		0.1	-
	0510	12/05/91	0001	AL	O		<	0.01		0.01	-
	0510	10/08/92	0001	AL	O			0.1	J	0.1	-
POLONIUM-210	0506	08/08/91	0001	AL	D	PCI/L		0.1		1.	0.4
	0506	12/05/91	0001	AL	D			0.4		1.	0.9
	0507	08/09/91	0001	AL	D			0.1		1.	0.2
	0507	12/05/91	0001	AL	D			0.2		1.	0.6
	0508	08/28/91	0001	AL	O			0.1		1.	0.4
	0508	12/05/91	0001	AL	O			0.1		1.	0.5
	0509	08/28/91	0001	AL	O			0.1		1.	0.4
	0509	12/05/91	0001	AL	O			0.0		1.	0.4
	0510	06/30/86	0001	AL	O		<	0.6	b	1.	0.6
	0510	08/28/91	0001	AL	O			0.2		1.	0.5
	0510	12/05/91	0001	AL	O			0.0		1.	0.4
POTASSIUM	0506	07/01/86	0001	AL	D	MG/L		36.9		0.01	-
	0506	10/14/87	0001	AL	D			30.		0.01	-
	0506	02/22/88	0001	AL	D			33.8		0.01	-
	0506	03/28/91	0001	AL	D			10.		5.	-
	0506	08/08/91	0001	AL	D			38.		5.	-
	0506	11/20/91	0001	AL	D			26.		5.	-
	0506	10/08/92	0001	AL	D			29.		5.	-
	0507	06/30/86	0001	AL	D			16.7		0.01	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE
b - CHANGED PARAMETER VALUE

22

36 6/15/92
J.L.

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
POTASSIUM	0507	10/14/87	0001	AL	D	MG/L		15.5		0.01	-
	0507	02/22/88	0001	AL	D			14.9		0.01	-
	0507	05/16/90	0001	AL	D			10.9		0.01	-
	0507	03/28/91	0001	AL	D			9.3		0.01	-
	0507	08/09/91	0001	AL	D			8.9		0.01	-
	0507	12/05/91	0001	AL	D			8.29		0.01	-
	0507	10/08/92	0001	AL	D			11.		5.	-
	0508	06/30/86	0001	AL	O			21.1		0.01	-
	0508	10/14/87	0001	AL	O			16.		0.01	-
	0508	02/19/88	0001	AL	O			19.0		0.01	-
	0508	03/27/91	0001	AL	O			12.		5.	-
	0508	08/28/91	0001	AL	O			15.2		0.02	-
	0508	12/05/91	0001	AL	O			13.		5.	-
	0508	10/10/92	0001	AL	O			11.		5.	-
	0509	07/17/86	0001	AL	O			7.56		0.01	-
	0509	10/14/87	0001	AL	O			11.9		0.01	-
	0509	02/22/88	0001	AL	O			11.8		0.01	-
	0509	03/27/91	0001	AL	O			13.		5.	-
	0509	08/28/91	0001	AL	O			15.2		0.02	-
	0509	11/21/91	0001	AL	O			16.		5.	-
	0509	10/13/92	0001	AL	O			13.		5.	-
	0510	06/30/86	0001	AL	O			12.9		0.01	-
	0510	10/14/87	0001	AL	O			16.		0.01	-
	0510	02/22/88	0001	AL	O			17.2		0.01	-
	0510	05/16/90	0001	AL	O			15.6		0.01	-
	0510	03/28/91	0001	AL	O			11.		5.	-
	0510	12/05/91	0001	AL	O			11.		5.	-
	0510	10/08/92	0001	AL	O			12.6		0.01	-
RADIUM-226	0506	10/14/87	0001	AL	D	PCI/L		0.3	c	0.5	0.2
	0506	02/22/88	0001	AL	D			0.2	c	0.4	0.2
	0506	03/28/91	0001	AL	D			0.1		1.	0.1
	0506	08/08/91	0001	AL	D			0.0		1.	0.1
	0506	12/05/91	0001	AL	D			0.2		1.	0.3
	0506	10/08/92	0001	AL	D			3.3		2.8	1.8
	0507	02/22/88	0001	AL	D			0.2	c	0.4	0.2
	0507	05/16/90	0001	AL	D			0.1	c	0.2	0.1
	0507	03/28/91	0001	AL	D			0.0		1.	0.1
	0507	08/09/91	0001	AL	D			0.1		1.	0.2

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (<.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

82

6/15/93

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
RADIUM-226	0507	12/05/91	0001	AL	D	PCI/L	0.4		1.	0.3
	0507	10/08/92	0001	AL	D		0.0		2.8	1.4
	0508	10/14/87	0001	AL	O		1.1		1.	0.3
	0508	02/19/88	0001	AL	O		1.6		1.	0.4
	0508	03/27/91	0001	AL	O		0.3		1.	0.2
	0508	08/28/91	0001	AL	O		1.0		1.	0.4
	0508	12/05/91	0001	AL	O		0.7		1.	0.4
	0508	10/10/92	0001	AL	O		1.2		0.8	0.6
	0509	10/14/87	0001	AL	O		1.5		1.	0.4
	0509	02/22/88	0001	AL	O		0.1	c	0.3	0.2
	0509	03/27/91	0001	AL	O		1.3		1.	0.4
	0509	08/28/91	0001	AL	O		0.5		1.	0.3
	0509	12/05/91	0001	AL	O		0.2		1.	0.2
	0509	10/13/92	0001	AL	O		1.3		0.8	0.6
	0510	06/30/86	0001	AL	O		1.1		1.	0.4
	0510	10/14/87	0001	AL	O		1.3		1.	0.3
	0510	02/22/88	0001	AL	O		0.5	c	0.7	0.2
	0510	05/16/90	0001	AL	O		0.4	c	0.6	0.2
	0510	03/28/91	0001	AL	O		0.5		1.	0.3
	0510	08/28/91	0001	AL	O		0.8		1.	0.3
	0510	12/05/91	0001	AL	O		0.3		1.	0.3
	0510	10/08/92	0001	AL	O		0.0		2.8	1.5
RADIUM-226 + RADIUM-228	0506	10/14/87	0001	AL	D	PCI/L	1.60		-	-
	0506	03/28/91	0001	AL	D		0.50		-	-
	0506	08/08/91	0001	AL	D		1.50		-	-
	0506	12/05/91	0001	AL	D		1.60		-	-
	0506	10/08/92	0001	AL	D		7.30		-	-
	0507	05/16/90	0001	AL	D		1.30		-	-
	0507	03/28/91	0001	AL	D		0.00		-	-
	0507	08/09/91	0001	AL	D		1.80		-	-
	0507	12/05/91	0001	AL	D		0.40		-	-
	0507	10/08/92	0001	AL	D		0.60		-	-
	0508	10/14/87	0001	AL	O		2.10		-	-
	0508	03/27/91	0001	AL	O		5.50		-	-
	0508	08/28/91	0001	AL	O		1.20		-	-
	0508	12/05/91	0001	AL	O		1.50		-	-
	0508	10/10/92	0001	AL	O		1.20		-	-
	0509	10/14/87	0001	AL	O		1.70		-	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

69

TABLE 1. ON-SITE AND DOWNGRAIDENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
RADIUM-226 + RADIUM-228	0509	03/27/91	0001	AL	O	PCI/L	8.30		-	-
	0509	08/28/91	0001	AL	O		2.70		-	-
	0509	12/05/91	0001	AL	O		0.30		-	-
	0509	10/13/92	0001	AL	O		4.20		-	-
	0510	06/30/86	0001	AL	O		1.40		-	-
	0510	10/14/87	0001	AL	O		2.00		-	-
	0510	05/16/90	0001	AL	O		1.50		-	-
	0510	03/28/91	0001	AL	O		4.50		-	-
	0510	08/28/91	0001	AL	O		2.10		-	-
	0510	12/05/91	0001	AL	O		1.10		-	-
	0510	10/08/92	0001	AL	O		0.00		-	-
RADIUM-228	0506	10/14/87	0001	AL	D	PCI/L	1.3		1.	1.0
	0506	03/28/91	0001	AL	D		0.4		1.	1.1
	0506	08/08/91	0001	AL	D		1.5		1.	1.9
	0506	12/05/91	0001	AL	D		1.4		1.	1.2
	0506	10/08/92	0001	AL	D		4.0		2.2	1.6
	0507	05/16/90	0001	AL	D		1.2		1.	0.8
	0507	03/28/91	0001	AL	D		0.0		1.	1.1
	0507	08/09/91	0001	AL	D		1.7		1.	1.9
	0507	12/05/91	0001	AL	D		0.0		1.	1.1
	0507	10/08/92	0001	AL	D		0.6		2.5	1.6
	0508	10/14/87	0001	AL	O		1.0		1.	1.1
	0508	03/27/91	0001	AL	O		5.2		1.	1.3
	0508	08/28/91	0001	AL	O		0.2		1.	1.9
	0508	12/05/91	0001	AL	O		0.8		1.	1.2
	0508	10/10/92	0001	AL	O		0.0		2.9	1.7
	0509	10/14/87	0001	AL	O		0.2		1.	0.9
	0509	03/27/91	0001	AL	O		7.0		1.	1.4
	0509	08/28/91	0001	AL	O		2.2		1.	2.2
	0509	12/05/91	0001	AL	O		0.1		1.	1.0
	0509	10/13/92	0001	AL	O		2.9		2.4	1.7
	0510	06/30/86	0001	AL	O		0.3		1.	0.8
	0510	10/14/87	0001	AL	O		0.7		1.	1.0
	0510	05/16/90	0001	AL	O		1.1		1.	0.7
	0510	03/28/91	0001	AL	O		4.0		1.	1.6
	0510	08/28/91	0001	AL	O		1.3		1.	2.0
	0510	12/05/91	0001	AL	O		0.8		1.	1.2
	0510	10/08/92	0001	AL	O		0.0		2.5	1.5
REDOX POTENTIAL	0506	10/08/92	0001	AL	D	mVOLTS	431.6		-	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

TABLE 1. ON-SITE AND DOWNGRAIDENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
REDOX POTENTIAL	0507	10/08/92	0001	AL	D	mVOLTS		323.8		-	-
	0508	10/10/92	0001	AL	O			417.8		-	-
	0509	10/13/92	0001	AL	O			469.5		-	-
	0510	10/08/92	0001	AL	O			543.8		-	-
SELENIUM	0506	07/01/86	0001	AL	D	MG/L		< 0.005		0.005	-
	0506	10/14/87	0001	AL	D			< 0.005		0.005	-
	0506	03/28/91	0001	AL	D			< 0.005		0.005	-
	0506	08/08/91	0001	AL	D			< 0.05	1	0.05	-
	0506	11/20/91	0001	AL	D			< 0.03	1	0.03	-
	0506	10/08/92	0001	AL	D			< 0.05		0.05	-
	0507	06/30/86	0001	AL	D			< 0.005		0.005	-
	0507	10/14/87	0001	AL	D			< 0.005		0.005	-
	0507	05/16/90	0001	AL	D			< 0.005		0.005	-
	0507	03/28/91	0001	AL	D			< 0.005		0.005	-
	0507	08/09/91	0001	AL	D			< 0.005		0.005	-
	0507	12/05/91	0001	AL	D			< 0.03	1	0.03	-
	0507	10/08/92	0001	AL	D			< 0.005		0.005	-
	0508	06/30/86	0001	AL	O			0.035		0.005	-
	0508	10/14/87	0001	AL	O			0.99		0.005	-
	0508	03/27/91	0001	AL	O			< 0.005		0.005	-
	0508	08/28/91	0001	AL	O			0.9		0.1	-
	0508	12/05/91	0001	AL	O			1.0		0.3	-
	0508	10/10/92	0001	AL	O			1.1		0.1	-
	0509	07/17/86	0001	AL	O			< 0.005		0.005	-
	0509	10/14/87	0001	AL	O			0.006		0.005	-
	0509	03/27/91	0001	AL	O			0.525		0.005	-
	0509	08/28/91	0001	AL	O			0.014		0.005	-
	0509	11/21/91	0001	AL	O			0.016		0.005	-
	0509	10/13/92	0001	AL	O			0.009		0.005	-
	0510	06/30/86	0001	AL	O			< 0.005		0.005	-
	0510	10/14/87	0001	AL	O			0.17		0.005	-
	0510	05/16/90	0001	AL	O			0.016		0.005	-
	0510	03/28/91	0001	AL	O			0.065		0.005	-
	0510	12/05/91	0001	AL	O			0.10		0.05	-
	0510	10/08/92	0001	AL	O			0.2		0.2	-
SILICA - SiO2	0506	10/14/87	0001	AL	D	MG/L		11.6		2.	-
	0506	02/22/88	0001	AL	D			13.3		2.	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
1 - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

40 02.0.
6/15/93

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SILICA - SiO2	0506	03/28/91	0001	AL	D	MG/L		10.3		0.1	-
	0506	08/08/91	0001	AL	D			12.5		0.1	-
	0506	11/20/91	0001	AL	D			11.8		0.1	-
	0506	10/08/92	0001	AL	D			12.5		0.1	-
	0507	10/14/87	0001	AL	D			9.8		2.	-
	0507	02/22/88	0001	AL	D			9.9		2.	-
	0507	05/16/90	0001	AL	D			10.		2.	-
	0507	03/28/91	0001	AL	D			9.3		0.1	-
	0507	08/09/91	0001	AL	D			10.2		0.1	-
	0507	12/05/91	0001	AL	D			9.6		0.1	-
	0507	10/08/92	0001	AL	D			10.9		0.1	-
	0508	10/14/87	0001	AL	O			22.		2.	-
	0508	02/19/88	0001	AL	O			19.7		2.	-
	0508	03/27/91	0001	AL	O			7.9		0.1	-
	0508	08/28/91	0001	AL	O			20.7		0.1	-
	0508	12/05/91	0001	AL	O			19.7		0.1	-
	0508	10/10/92	0001	AL	O			21.1		0.1	-
	0509	10/14/87	0001	AL	O			8.8		2.	-
	0509	02/22/88	0001	AL	O			7.7		2.	-
	0509	03/27/91	0001	AL	O			19.1		0.1	-
	0509	08/28/91	0001	AL	O			9.0		0.1	-
	0509	11/21/91	0001	AL	O			8.9		0.1	-
	0509	10/13/92	0001	AL	O			9.5		0.1	-
	0510	06/30/86	0001	AL	O			7.		2.	-
	0510	10/14/87	0001	AL	O			15.6		2.	-
	0510	02/22/88	0001	AL	O			16.9		2.	-
	0510	05/16/90	0001	AL	O			16.		2.	-
	0510	03/28/91	0001	AL	O			14.4		0.1	-
	0510	08/28/91	0001	AL	O			15.6		0.1	-
	0510	12/05/91	0001	AL	O			13.9		0.1	-
	0510	10/08/92	0001	AL	O			16.3		0.1	-
SILVER	0506	10/14/87	0001	AL	D	MG/L	<	0.01		0.01	-
	0506	03/28/91	0001	AL	D		<	0.01		0.01	-
	0506	08/08/91	0001	AL	D		<	0.01		0.01	-
	0506	11/20/91	0001	AL	D		<	0.01		0.01	-
	0507	10/14/87	0001	AL	D		<	0.01		0.01	-
	0507	05/16/90	0001	AL	D		<	0.01		0.01	-
	0507	03/28/91	0001	AL	D		<	0.01		0.01	-
	0507	08/09/91	0001	AL	D		<	0.01		0.01	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

32

6/15/93

33

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SILVER	0507	12/05/91	0001	AL	D	HG/L	<	0.01		0.01	-
	0508	10/14/87	0001	AL	O		<	0.01		0.01	-
	0508	03/27/91	0001	AL	O		<	0.01		0.01	-
	0508	08/28/91	0001	AL	O		<	0.01		0.01	-
	0508	12/05/91	0001	AL	O		<	0.01		0.01	-
	0509	10/14/87	0001	AL	O		<	0.01		0.01	-
	0509	03/27/91	0001	AL	O		<	0.01		0.01	-
	0509	08/28/91	0001	AL	O		<	0.01		0.01	-
	0509	11/21/91	0001	AL	O		<	0.01		0.01	-
	0510	06/30/86	0001	AL	O		<	0.01		0.01	-
	0510	10/14/87	0001	AL	O		<	0.01		0.01	-
	0510	05/16/90	0001	AL	O		<	0.01		0.01	-
	0510	03/28/91	0001	AL	O		<	0.01		0.01	-
	0510	12/05/91	0001	AL	O		<	0.01		0.01	-
SODIUM	0506	07/01/86	0001	AL	D	HG/L		970.		0.002	-
	0506	10/14/87	0001	AL	D			490.		0.002	-
	0506	02/22/88	0001	AL	D			479.		0.002	-
	0506	03/28/91	0001	AL	D			1280.		5.	-
	0506	08/08/91	0001	AL	D			1220.		20.	-
	0506	11/20/91	0001	AL	D			827.		5.	-
	0506	10/08/92	0001	AL	D			1240.		20.	-
	0507	06/30/86	0001	AL	D			322.		0.002	-
	0507	10/14/87	0001	AL	D			135.		0.002	-
	0507	02/22/88	0001	AL	D			130.		0.002	-
	0507	05/16/90	0001	AL	D			91.1		0.002	-
	0507	03/28/91	0001	AL	D			95.		5.	-
	0507	08/09/91	0001	AL	D			97.		1.	-
	0507	12/05/91	0001	AL	D			92.		1.	-
	0507	10/08/92	0001	AL	D			110.		5.	-
	0508	06/30/86	0001	AL	O			160.		0.002	-
	0508	10/14/87	0001	AL	O			263.		0.002	-
	0508	02/19/88	0001	AL	O			226.		0.002	-
	0508	03/27/91	0001	AL	O			154.		5.	-
	0508	08/28/91	0001	AL	O			248.		5.	-
	0508	12/05/91	0001	AL	O			238.		5.	-
	0508	10/10/92	0001	AL	O			235.		5.	-
	0509	07/17/86	0001	AL	O			171.		0.002	-
	0509	10/14/87	0001	AL	O			155.		0.002	-
	0509	02/22/88	0001	AL	O			136.		0.002	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

72 122.
6/15/93

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SODIUM	0509	03/27/91	0001	AL	O	MG/L		247.		5.	-
	0509	08/28/91	0001	AL	O			164.		5.	-
	0509	11/21/91	0001	AL	O			168.		5.	-
	0509	10/13/92	0001	AL	O			154.		5.	-
	0510	06/30/86	0001	AL	O			177.		0.002	-
	0510	10/14/87	0001	AL	O			181.		0.002	-
	0510	02/22/88	0001	AL	O			188.		0.002	-
	0510	05/16/90	0001	AL	O			184.		0.002	-
	0510	03/28/91	0001	AL	O			200.		5.	-
	0510	12/05/91	0001	AL	O			175.		5.	-
	0510	10/08/92	0001	AL	O			190.		5.	-
SPECIFIC CONDUCTANCE	0506	07/01/86	0001	AL	D	UMHO/CM		3950.		-	-
	0506	10/14/87	0001	AL	D			4400.		-	-
	0506	02/22/88	0001	AL	D			4200.		-	-
	0506	03/28/91	0001	AL	D			1289.		-	-
	0506	08/08/91	0001	AL	D			11420		-	-
	0506	12/05/91	0001	AL	D			8400		-	-
	0506	10/08/92	0001	AL	D			6150		-	-
	0507	06/30/86	0001	AL	D			1500.		-	-
	0507	10/14/87	0001	AL	D			1500.		-	-
	0507	02/22/88	0001	AL	D			1400.		-	-
	0507	05/16/90	0001	AL	D			1120.		-	-
	0507	03/28/91	0001	AL	D			1328.		-	-
	0507	08/09/91	0001	AL	D			1660		-	-
	0507	12/05/91	0001	AL	D			1578		-	-
	0507	10/08/92	0001	AL	D			947		-	-
	0508	06/30/86	0001	AL	O			3550.		-	-
	0508	10/14/87	0001	AL	O			3300.		-	-
	0508	02/19/88	0001	AL	O			3750.		-	-
	0508	03/27/91	0001	AL	O			3860.		-	-
	0508	08/28/91	0001	AL	O			4970		-	-
	0508	12/05/91	0001	AL	O			5150		-	-
	0508	10/10/92	0001	AL	O			4100		-	-
	0509	07/17/86	0001	AL	O			1000.		-	-
	0509	10/14/87	0001	AL	O			1600.		-	-
	0509	02/22/88	0001	AL	O			1400.		-	-
	0509	03/27/91	0001	AL	O			1355.		-	-
	0509	08/28/91	0001	AL	O			2710		-	-
	0509	12/05/91	0001	AL	O			2330		-	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

75 J.D.
6/15/93

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SPECIFIC CONDUCTANCE	0509	10/13/92	0001	AL	O	UMHO/CM		208		-	-
	0510	06/30/86	0001	AL	O			3300.		-	-
	0510	10/14/87	0001	AL	O			3900.		-	-
	0510	02/22/88	0001	AL	O			3500.		-	-
	0510	05/16/90	0001	AL	O			3400.		-	-
	0510	03/28/91	0001	AL	O			3710.		-	-
	0510	08/28/91	0001	AL	O			4820		-	-
	0510	12/05/91	0001	AL	O			4850		-	-
	0510	10/08/92	0001	AL	O			3940		-	-
STRONTIUM	0506	03/28/91	0001	AL	D	MG/L		8.76		0.01	-
	0506	08/08/91	0001	AL	D			7.64		0.01	-
	0506	11/20/91	0001	AL	D			5.34		0.01	-
	0506	10/08/92	0001	AL	D			6.36		0.01	-
	0507	05/16/90	0001	AL	D			1.10		0.1	-
	0507	03/28/91	0001	AL	D			1.42		0.01	-
	0507	08/09/91	0001	AL	D			1.24		0.01	-
	0507	12/05/91	0001	AL	D			1.19		0.01	-
	0507	10/08/92	0001	AL	D			1.19		0.01	-
	0508	03/27/91	0001	AL	O			1.63		0.01	-
	0508	08/28/91	0001	AL	O			3.99		0.01	-
	0508	12/05/91	0001	AL	O			3.56		0.01	-
	0508	10/10/92	0001	AL	O			3.73		0.01	-
	0509	03/27/91	0001	AL	O			3.65		0.01	-
	0509	08/28/91	0001	AL	O			1.98		0.01	-
	0509	11/21/91	0001	AL	O			1.94		0.01	-
	0509	10/13/92	0001	AL	O			1.76		0.01	-
	0510	05/16/90	0001	AL	O			3.88		0.1	-
	0510	03/28/91	0001	AL	O			4.30		0.01	-
	0510	12/05/91	0001	AL	O			3.96		0.01	-
	0510	10/08/92	0001	AL	O			4.39		0.01	-
SULFATE	0506	07/01/86	0001	AL	D	MG/L		3160.		0.1	-
	0506	10/14/87	0001	AL	D			2940.		0.1	-
	0506	02/22/88	0001	AL	D			2800.		0.1	-
	0506	03/28/91	0001	AL	D			2260.		10.	-
	0506	08/08/91	0001	AL	D			2080.		10.	-
	0506	11/20/91	0001	AL	D			2100.		10.	-
	0506	10/08/92	0001	AL	D			2450.		10.	-
	0507	06/30/86	0001	AL	D			733.		0.1	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

35

44 J.D.
6/15/93

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SULFATE	0507	10/14/87	0001	AL	D	MG/L		630.		0.1	-
	0507	02/22/88	0001	AL	D			535.		0.1	-
	0507	05/16/90	0001	AL	D			315.		0.1	-
	0507	03/28/91	0001	AL	D			253.		0.1	-
	0507	08/09/91	0001	AL	D			213.		0.1	-
	0507	12/05/91	0001	AL	D			198.		40.	-
	0507	10/08/92	0001	AL	D			243.		25.	-
	0508	06/30/86	0001	AL	O			1920.		0.1	-
	0508	10/14/87	0001	AL	O			1680.		0.1	-
	0508	02/19/88	0001	AL	O			1480.		0.1	-
	0508	03/27/91	0001	AL	O			835.		10.	-
	0508	08/28/91	0001	AL	O			1430.		10.	-
	0508	12/05/91	0001	AL	O			1490.		10.	-
	0508	10/10/92	0001	AL	O			1520.		10.	-
	0509	07/17/86	0001	AL	O			532.		0.1	-
	0509	10/14/87	0001	AL	O			790.		0.1	-
	0509	02/22/88	0001	AL	O			694.		0.1	-
	0509	03/27/91	0001	AL	O			1490.		10.	-
	0509	08/28/91	0001	AL	O			938.		10.	-
	0509	11/21/91	0001	AL	O			1040.		10.	-
	0509	10/13/92	0001	AL	O			868.		90.	-
	0510	06/30/86	0001	AL	O			1540.		0.1	-
	0510	10/14/87	0001	AL	O			1840.		0.1	-
	0510	02/22/88	0001	AL	O			1670.		0.1	-
	0510	05/16/90	0001	AL	O			1670.		0.1	-
	0510	03/28/91	0001	AL	O			1620.		10.	-
	0510	08/28/91	0001	AL	O			1600.		10.	-
	0510	12/05/91	0001	AL	O			1570.		10.	-
	0510	10/08/92	0001	AL	O			1670.		10.	-
SULFIDE	0506	07/01/86	0001	AL	D	MG/L	<	0.1		0.1	-
	0506	03/28/91	0001	AL	D		<	0.1		0.1	-
	0506	08/08/91	0001	AL	D		<	0.1		0.1	-
	0506	11/20/91	0001	AL	D			0.3		0.1	-
	0506	10/08/92	0001	AL	D			0.2		0.1	-
	0507	06/30/86	0001	AL	D		<	0.1		0.1	-
	0507	03/28/91	0001	AL	D			0.7		0.1	-
	0507	08/09/91	0001	AL	D			4.0		0.1	-
	0507	12/05/91	0001	AL	D		<	0.1		0.1	-
	0507	10/08/92	0001	AL	D			0.4		0.1	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

6/15/93

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SULFIDE	0508	06/30/86	0001	AL	0	MG/L	<	0.1		0.1	-
	0508	03/27/91	0001	AL	0		<	3.04		0.1	-
	0508	08/28/91	0001	AL	0		<	0.1		0.1	-
	0508	12/05/91	0001	AL	0		<	0.5		0.1	-
	0508	10/10/92	0001	AL	0		<	0.1		0.1	-
	0509	07/17/86	0001	AL	0		<	0.1		0.1	-
	0509	03/27/91	0001	AL	0			4.52		0.1	-
	0509	08/28/91	0001	AL	0			0.3		0.1	-
	0509	11/21/91	0001	AL	0		<	0.1		0.1	-
	0509	10/13/92	0001	AL	0		<	0.1		0.1	-
	0510	06/30/86	0001	AL	0		<	0.1		0.1	-
	0510	03/28/91	0001	AL	0			0.3		0.1	-
	0510	08/28/91	0001	AL	0		<	0.1		0.1	-
	0510	12/05/91	0001	AL	0		<	0.1		0.1	-
	0510	10/08/92	0001	AL	0		<	0.1		0.1	-
TEMPERATURE	0506	07/01/86	0001	AL	0	C - DEGREE		13.		-	-
	0506	10/14/87	0001	AL	0			14.5		-	-
	0506	02/22/88	0001	AL	0			10.0		-	-
	0506	03/28/91	0001	AL	0			9.8		-	-
	0506	08/08/91	0001	AL	0			14.1		-	-
	0506	12/05/91	0001	AL	0			13.6		-	-
	0506	10/08/92	0001	AL	0			15.0		-	-
	0507	06/30/86	0001	AL	0			12.		-	-
	0507	10/14/87	0001	AL	0			14.0		-	-
	0507	02/22/88	0001	AL	0			10.0		-	-
	0507	05/16/90	0001	AL	0			11.0		-	-
	0507	03/28/91	0001	AL	0			9.5		-	-
	0507	08/09/91	0001	AL	0			12.6		-	-
	0507	12/05/91	0001	AL	0			12.0		-	-
	0507	10/08/92	0001	AL	0			12.8		-	-
	0508	06/30/86	0001	AL	0			13.		-	-
	0508	10/14/87	0001	AL	0			15.0		-	-
	0508	02/19/88	0001	AL	0			11.5		-	-
	0508	03/27/91	0001	AL	0			11.4		-	-
	0508	08/28/91	0001	AL	0			14.3		-	-
	0508	12/05/91	0001	AL	0			13.6		-	-
	0508	10/10/92	0001	AL	0			14.6		-	-
	0509	07/17/86	0001	AL	0			14.		-	-
	0509	10/14/87	0001	AL	0			14.0		-	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

46 6/15/92
D.A.

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TEMPERATURE	0509	02/22/88	0001	AL	O	C - DEGREE		10.0		-	-
	0509	03/27/91	0001	AL	O			10.1		-	-
	0509	08/28/91	0001	AL	O			13.5		-	-
	0509	12/05/91	0001	AL	O			12.9		-	-
	0509	10/13/92	0001	AL	O			13.4		-	-
	0510	06/30/86	0001	AL	O			13.		-	-
	0510	10/14/87	0001	AL	O			15.0		-	-
	0510	02/22/88	0001	AL	O			11.5		-	-
	0510	05/16/90	0001	AL	O			13.2		-	-
	0510	03/28/91	0001	AL	O			11.1		-	-
	0510	08/28/91	0001	AL	O			14.7		-	-
	0510	12/05/91	0001	AL	O			13.3		-	-
	0510	10/08/92	0001	AL	O			14.6		-	-
THALLIUM	0506	03/28/91	0001	AL	D	MG/L	<	0.03	I	0.03	-
	0506	08/08/91	0001	AL	D		<	0.1	I	0.1	-
	0506	11/20/91	0001	AL	D		<	0.05	I	0.05	-
	0506	10/08/92	0001	AL	D		<	0.02	I	0.02	-
	0507	05/16/90	0001	AL	D		<	0.01		0.01	-
	0507	03/28/91	0001	AL	D		<	0.01		0.01	-
	0507	08/09/91	0001	AL	D		<	0.01		0.01	-
	0507	12/05/91	0001	AL	D		<	0.01		0.01	-
	0507	10/08/92	0001	AL	D		<	0.02	I	0.02	-
	0508	03/27/91	0001	AL	O		<	0.01		0.01	-
	0508	08/28/91	0001	AL	O		<	0.05	I	0.05	-
	0508	12/05/91	0001	AL	O		<	0.01		0.01	-
	0508	10/10/92	0001	AL	O		<	0.005		0.005	-
	0509	03/27/91	0001	AL	O		<	0.01		0.01	-
	0509	08/28/91	0001	AL	O		<	0.05	I	0.05	-
	0509	11/21/91	0001	AL	O		<	0.01		0.01	-
	0509	10/13/92	0001	AL	O		<	0.005		0.005	-
	0510	05/16/90	0001	AL	O		<	0.01		0.01	-
	0510	03/28/91	0001	AL	O		<	0.01		0.01	-
	0510	12/05/91	0001	AL	O		<	0.01		0.01	-
	0510	10/08/92	0001	AL	O		<	0.005		0.005	-
THORIUM-230	0506	08/08/91	0001	AL	D	PCI/L		0.8		1.	0.5
	0506	12/05/91	0001	AL	D			0.7		1.	0.6
	0507	08/09/91	0001	AL	D			0.3		1.	0.3

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

38

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
THORIUM-230	0507	12/05/91	0001	AL	D	PC1/L		0.1		1.	0.4
	0508	08/28/91	0001	AL	O			0.3		1.	0.6
	0508	12/05/91	0001	AL	O			0.4		1.	0.5
	0509	08/28/91	0001	AL	O			0.1		1.	0.6
	0509	12/05/91	0001	AL	O			0.3		1.	0.3
	0510	06/30/86	0001	AL	O			0.1	c	0.3	0.2
	0510	08/28/91	0001	AL	O			0.3		1.	0.5
	0510	12/05/91	0001	AL	O			0.4		1.	0.6
TIN	0506	03/28/91	0001	AL	D	MG/L	<	0.005		0.005	-
	0506	08/08/91	0001	AL	D		<	0.005		0.005	-
	0506	11/20/91	0001	AL	D		<	0.03	I	0.03	-
	0506	10/08/92	0001	AL	D		<	0.05	I	0.05	-
	0507	05/16/90	0001	AL	D		<	0.005		0.005	-
	0507	03/28/91	0001	AL	D		<	0.005		0.005	-
	0507	08/09/91	0001	AL	D		<	0.005		0.005	-
	0507	12/05/91	0001	AL	D		<	0.005		0.005	-
	0507	10/08/92	0001	AL	D		<	0.05	I	0.05	-
	0508	03/27/91	0001	AL	O		<	0.005		0.005	-
	0508	08/28/91	0001	AL	O		<	0.05	I	0.05	-
	0508	12/05/91	0001	AL	O		<	0.005		0.005	-
	0508	10/10/92	0001	AL	O		<	0.05	I	0.05	-
	0509	03/27/91	0001	AL	O		<	0.005		0.005	-
	0509	08/28/91	0001	AL	O		<	0.05	I	0.05	-
	0509	11/21/91	0001	AL	O		<	0.03	I	0.03	-
	0509	10/13/92	0001	AL	O		<	0.005		0.005	-
	0510	06/30/86	0001	AL	O		<	0.005		0.005	-
	0510	05/16/90	0001	AL	O		<	0.005		0.005	-
	0510	03/28/91	0001	AL	O		<	0.005		0.005	-
	0510	12/05/91	0001	AL	O		<	0.005		0.005	-
	0510	10/08/92	0001	AL	O		<	0.05	I	0.05	-
TOTAL DISSOLVED SOLIDS	0506	07/01/86	0001	AL	D	MG/L		5370.		10.	-
	0506	10/14/87	0001	AL	D			5220.		10.	-
	0506	02/22/88	0001	AL	D			5170.		10.	-
	0506	03/28/91	0001	AL	D			9560.		10.	-
	0506	08/08/91	0001	AL	D			2780.		10.	-
	0506	11/20/91	0001	AL	D			5840.		10.	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
c - CHANGED DETECTION LIMIT

17-25
6/15/93

39

98 2.1
6/15/93

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL DISSOLVED SOLIDS	0506	10/08/92	0001	AL	D	MG/L	7560.		10.	-
	0507	06/30/86	0001	AL	D		1520.		10.	-
	0507	10/14/87	0001	AL	D		1413.		10.	-
	0507	02/22/88	0001	AL	D		1260.		10.	-
	0507	05/16/90	0001	AL	D		892.		10.	-
	0507	03/28/91	0001	AL	D		259.		10.	-
	0507	08/09/91	0001	AL	D		863.		10.	-
	0507	12/05/91	0001	AL	D		911.		10.	-
	0507	10/08/92	0001	AL	D		928.		10.	-
	0508	06/30/86	0001	AL	O		4420.		10.	-
	0508	10/14/87	0001	AL	O		4210.		10.	-
	0508	02/19/88	0001	AL	O		3870.		10.	-
	0508	03/27/91	0001	AL	O		1320.		10.	-
	0508	08/28/91	0001	AL	O		3620.		10.	-
	0508	12/05/91	0001	AL	O		3620.		10.	-
	0508	10/10/92	0001	AL	O		3640.	H	10.	-
	0509	07/17/86	0001	AL	O		1140.		10.	-
	0509	10/14/87	0001	AL	O		1450.		10.	-
	0509	02/22/88	0001	AL	O		1300.		10.	-
	0509	03/27/91	0001	AL	O		3440.		10.	-
	0509	08/28/91	0001	AL	O		1572.		10.	-
	0509	11/21/91	0001	AL	O		1520.		10.	-
	0509	10/13/92	0001	AL	O		1510.		10.	-
	0510	06/30/86	0001	AL	O		4180.		10.	-
	0510	10/14/87	0001	AL	O		4370.		10.	-
	0510	02/22/88	0001	AL	O		4000.		10.	-
	0510	05/16/90	0001	AL	O		3750.		10.	-
	0510	03/28/91	0001	AL	O		3710.		10.	-
	0510	08/28/91	0001	AL	O		4300.		10.	-
	0510	12/05/91	0001	AL	O		3760.		10.	-
	0510	10/08/92	0001	AL	O		4090.		10.	-
TOTAL KJELDAHL NITROGEN	0506	03/28/91	0001	AL	D	MG/L	113.		1.	-
	0506	08/08/91	0001	AL	D		130.		1.	-
	0506	11/20/91	0001	AL	D		116.		2.	-
	0507	03/28/91	0001	AL	D		25.		1.	-
	0507	08/09/91	0001	AL	D		22.		1.	-
	0507	12/05/91	0001	AL	D		20.		2.	-
	0508	03/27/91	0001	AL	O		72.		1.	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
H - HOLD TIME EXPIRED, VALUE SUSPECT

47

17-202
6/15/93

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL KJELDAHL NITROGEN	0508	08/28/91	0001	AL	O	MG/L		112.		1.	-
	0508	12/05/91	0001	AL	O			111.		2.	-
	0509	03/27/91	0001	AL	O			110.		1.	-
	0509	08/28/91	0001	AL	O			84.		1.	-
	0509	11/21/91	0001	AL	O			98.		2.	-
	0510	03/28/91	0001	AL	O			59.		1.	-
	0510	08/28/91	0001	AL	O			24.		1.	-
	0510	12/05/91	0001	AL	O			51.		2.	-
TOTAL ORGANIC CARBON	0506	03/28/91	0001	AL	D	MG/L		33.		1.	-
	0506	08/08/91	0001	AL	D			38.		1.	-
	0506	11/20/91	0001	AL	D			24.		1.	-
	0506	10/08/92	0001	AL	D			39.		1.	-
	0507	03/28/91	0001	AL	D			7.		1.	-
	0507	08/09/91	0001	AL	D			10.		1.	-
	0507	12/05/91	0001	AL	D			6.		1.	-
	0507	10/08/92	0001	AL	D			10.		1.	-
	0508	03/27/91	0001	AL	O			2.		1.	-
	0508	08/28/91	0001	AL	O			4.		1.	-
	0508	12/05/91	0001	AL	O			4.		1.	-
	0508	10/10/92	0001	AL	O			6.		1.	-
	0509	03/27/91	0001	AL	O			4.		1.	-
	0509	08/28/91	0001	AL	O			2.		1.	-
	0509	11/21/91	0001	AL	O			4.		1.	-
	0509	10/13/92	0001	AL	O			4.		1.	-
	0510	03/28/91	0001	AL	O			4.		1.	-
	0510	08/28/91	0001	AL	O			5.		1.	-
	0510	12/05/91	0001	AL	O			4.		1.	-
	0510	10/08/92	0001	AL	O			7.		1.	-
TURBIDITY	0507	10/08/92	0001	AL	D	NTU		6.9		-	-
URANIUM	0506	07/01/86	0001	AL	D	MG/L		0.0139		0.003	-
	0506	10/14/87	0001	AL	D			0.036		0.003	-
	0506	02/22/88	0001	AL	D			0.0294		0.003	-
	0506	03/28/91	0001	AL	D			0.060		0.001	-
	0506	08/08/91	0001	AL	D			0.040		0.001	-
	0506	12/05/91	0001	AL	D			0.031		0.001	-
	0506	10/08/92	0001	AL	D			0.081		0.001	-
	0507	06/30/86	0001	AL	D			0.0309		0.003	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

50 6/15/9
12.2.

42

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP REL.	UNITS OF MEASURE	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
URANIUM	0507	10/14/87	0001	AL	D	0.028		0.003	-
	0507	02/22/88	0001	AL	D	0.0237		0.003	-
	0507	05/16/90	0001	AL	D	0.023		0.003	-
	0507	03/28/91	0001	AL	D	0.029		0.001	-
	0507	08/09/91	0001	AL	D	0.034		0.001	-
	0507	12/05/91	0001	AL	D	0.027		0.001	-
	0507	10/08/92	0001	AL	D	0.028		0.001	-
	0508	06/30/86	0001	AL	D	0.115		0.003	-
	0508	10/14/87	0001	AL	D	0.127		0.003	-
	0508	02/19/88	0001	AL	D	0.126		0.003	-
	0508	03/27/91	0001	AL	D	0.021		0.001	-
	0508	08/28/91	0001	AL	D	0.073		0.001	-
	0508	12/05/91	0001	AL	D	0.103		0.001	-
	0508	10/10/92	0001	AL	D	0.104		0.001	-
	0509	07/17/86	0001	AL	D	0.0287		0.003	-
	0509	10/14/87	0001	AL	D	0.029		0.003	-
	0509	02/22/88	0001	AL	D	0.0254		0.003	-
	0509	03/27/91	0001	AL	D	0.078		0.001	-
	0509	08/28/91	0001	AL	D	0.027		0.001	-
	0509	12/05/91	0001	AL	D	0.022		0.001	-
VANADIUM	0510	10/13/92	0001	AL	D	0.024		0.001	-
	0510	06/30/86	0001	AL	D	0.195		0.003	-
	0510	10/14/87	0001	AL	D	0.178		0.003	-
	0510	02/22/88	0001	AL	D	0.126		0.003	-
	0510	05/16/90	0001	AL	D	0.110		0.003	-
	0510	03/28/91	0001	AL	D	0.092		0.001	-
	0510	08/28/91	0001	AL	D	0.112		0.001	-
	0510	12/05/91	0001	AL	D	0.132		0.001	-
	0510	10/08/92	0001	AL	D	0.151		0.001	-
	0506	07/01/86	0001	AL	D	0.33		0.01	-
	0506	10/14/87	0001	AL	D	0.01	<	0.01	-
	0506	03/28/91	0001	AL	D	0.01	<	0.01	-
URANIUM	0506	08/08/91	0001	AL	D	0.01	<	0.01	-
	0506	11/20/91	0001	AL	D	0.01	<	0.01	-
	0506	10/08/92	0001	AL	D	0.01	<	0.01	-
	0507	06/30/86	0001	AL	D	0.23	<	0.01	-
	0507	10/14/87	0001	AL	D	0.01	<	0.01	-
	0507	05/16/90	0001	AL	D	0.02	<	0.01	-
	0507	03/28/91	0001	AL	D	0.01	<	0.01	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

51 55A.
6/15/93

TABLE 1. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
VANADIUM	0507	08/09/91	0001	AL	D	MG/L	<	0.01		0.01	-
	0507	12/05/91	0001	AL	D		<	0.01		0.01	-
	0507	10/08/92	0001	AL	D		<	0.01		0.01	-
	0508	06/30/86	0001	AL	O			1.04		0.01	-
	0508	10/14/87	0001	AL	O			0.66		0.01	-
	0508	03/27/91	0001	AL	O			0.01		0.01	-
	0508	08/28/91	0001	AL	O			0.62		0.01	-
	0508	12/05/91	0001	AL	O			0.59		0.01	-
	0508	10/10/92	0001	AL	O			0.54		0.01	-
	0509	07/17/86	0001	AL	O			0.43		0.01	-
	0509	10/14/87	0001	AL	O			0.01		0.01	-
	0509	03/27/91	0001	AL	O			0.61		0.01	-
	0509	08/28/91	0001	AL	O		<	0.01		0.01	-
	0509	11/21/91	0001	AL	O		<	0.01		0.01	-
	0509	10/13/92	0001	AL	O			0.01		0.01	-
	0510	06/30/86	0001	AL	O			0.36		0.01	-
	0510	10/14/87	0001	AL	O		<	0.01		0.01	-
	0510	05/16/90	0001	AL	O			0.02		0.01	-
	0510	03/28/91	0001	AL	O		<	0.01		0.01	-
	0510	12/05/91	0001	AL	O		<	0.01		0.01	-
	0510	10/08/92	0001	AL	O			0.02		0.01	-
ZINC	0506	10/14/87	0001	AL	D	MG/L	<	0.005		0.005	-
	0506	03/28/91	0001	AL	D		<	0.03	I	0.03	-
	0506	08/08/91	0001	AL	D		<	0.005		0.005	-
	0506	11/20/91	0001	AL	D		<	0.005		0.005	-
	0506	10/08/92	0001	AL	D		<	0.03	I	0.03	-
	0507	10/14/87	0001	AL	D		<	0.005		0.005	-
	0507	05/16/90	0001	AL	D			0.069		0.005	-
	0507	03/28/91	0001	AL	D		<	0.03	I	0.03	-
	0507	08/09/91	0001	AL	D		<	0.005		0.005	-
	0507	12/05/91	0001	AL	D			0.007		0.005	-
	0507	10/08/92	0001	AL	D		<	0.005		0.005	-
	0508	10/14/87	0001	AL	O			0.007		0.005	-
	0508	03/27/91	0001	AL	O		<	0.03	I	0.03	-
	0508	08/28/91	0001	AL	O			0.014		0.005	-
	0508	12/05/91	0001	AL	O			0.008		0.005	-
	0508	10/10/92	0001	AL	O			0.005		0.005	-
	0509	10/14/87	0001	AL	O		<	0.005		0.005	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

TABLE 1. ON-SITE AND DOWNGRAIDENT GROUNDWATER QUALITY DATA BY PARAMETER
IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ZINC	0509	03/27/91	0001	AL	0	MG/L	<	0.005		0.005	-
	0509	08/28/91	0001	AL	0			0.005		0.005	-
	0509	11/21/91	0001	AL	0		<	0.005		0.005	-
	0509	10/13/92	0001	AL	0		<	0.005		0.005	-
	0510	06/30/86	0001	AL	0			0.06		0.005	-
	0510	10/14/87	0001	AL	0		<	0.005		0.005	-
	0510	05/16/90	0001	AL	0			0.009		0.005	-
	0510	03/28/91	0001	AL	0		<	0.03	I	0.03	-
	0510	12/05/91	0001	AL	0			0.006		0.005	-
	0510	10/08/92	0001	AL	0		<	0.005		0.005	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

DATA FILE NAME: N:\DART\SRK01\GWQ10034.DAT

TABLE 2. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE ALLUVIUM, UC PROCESSING SITE, SLICK ROCK, CO
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 03/07/94

PARAMETER NAME					UNITS							
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE	
								MINIMUM	MAXIMUM *			
ALKALINITY					MG/L CaCO3							
37	249.0000	791.0000	406.0000	458.7297	145.4819	0.3171	0.0	400.5156	516.9439	NORMAL		
ALUMINUM					MG/L							
36	** 0.0500	0.4000	** 0.0500	NA	NA	NA	72.2	** 0.0500	0.0500	NONPARAMETRIC	2	
AMMONIUM					MG/L							
33	22.8000	190.0000	115.0000	111.0364	51.4043	0.4630	0.0	89.1308	132.9419	NORMAL		
ANTIMONY					MG/L							
22	** 0.0030	0.0150	** 0.0030	NA	NA	NA	95.5	** 0.0030	** 0.0030	NONPARAMETRIC	2	
ARSENIC					MG/L							
31	** 0.0050	0.0500	0.0050	NA	NA	NA	100.0	0.0050	0.0050	NONPARAMETRIC	2	
BARIUM					MG/L							
27	0.0100	0.1000	0.0300	NA	NA	NA	25.9	0.0200	0.0500	NONPARAMETRIC	2	
BERYLLIUM					MG/L							
16	** 0.0050	0.0050	** 0.0050	NA	NA	NA	100.0	** 0.0050	** 0.0050	NONPARAMETRIC	2	
BORON					MG/L							
22	0.0500	0.5000	+ 0.4100	0.3773	0.1312	0.3478	4.5	0.3068	0.4477	NORMAL		
BROMIDE					MG/L							
20	** 0.1000	9.1000	+ 1.4000	NA	NA	NA	50.0	0.4000	3.9000	NONPARAMETRIC	2	
CADMIUM					MG/L							
27	** 0.0010	0.0270	** 0.0010	NA	NA	NA	70.4	** 0.0010	0.0012	NONPARAMETRIC	2	

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

54 12.2
6/15/93

TABLE 2. ON-SITE AND DOWNGRAIDENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE ALLUVIUM, UC PROCESSING SITE, SLICK ROCK, CO
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME					UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN									
CALCIUM					MG/L								
36	110.0000	970.0000	+ 456.0000	384.3611		227.6243	0.5922	0.0		291.9077	476.8145	NORMAL	
CHLORIDE					MG/L								
37	71.0000	3400.0000	127.0000	178.6312		2.8823	NA	0.0		116.9478	272.8490	LOGNORMAL	7,8
CHROMIUM					MG/L								
27	** 0.0100	0.0500	** 0.0100	NA		NA	NA	88.9	** 0.0100	** 0.0100		NONPARAMETRIC	2
COBALT					MG/L								
16	** 0.0300	** 0.0300	** 0.0300	NA		NA	NA	100.0	** 0.0300	** 0.0300		NONPARAMETRIC	2
COPPER					MG/L								
27	** 0.0100	0.0600	** 0.0100	NA		NA	NA	92.6	** 0.0100	0.0100		NONPARAMETRIC	2
CYANIDE					MG/L								
15	** 0.0100	** 0.0100	** 0.0100	NA		NA	NA	100.0	** 0.0100	** 0.0100		NONPARAMETRIC	2
DISSOLVED OXYGEN					MG/L								
5	0.0000	0.2000	0.0000	NA		NA	NA	0.0		0.0000	0.2000	NONPARAMETRIC	9,5
FIELD FE (2+)					MG/L								
4	0.0000	3.3700	+ 1.2200	NA		NA	NA	0.0		0.0000	3.3700	NONPARAMETRIC	9,4
FIELD FE (TOTAL)					MG/L								
2	0.1000	5.4200	+ 2.7600	NA		NA	NA	0.0		NA	NA	UNKNOWN	1

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

4) The stat. range is the 87.5% confidence interval due to a sample size of 4. The maximum is the 93.8% one sided confidence int.

5) The stat. range is the 93.8% confidence interval due to a sample size of 5. The maximum is the 96.9% one sided confidence int.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

46

TABLE 2. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME					UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN						MINIMUM	MAXIMUM *		
FLUORIDE					MG/L								
33	0.1900	0.7000	0.3800	0.3800		0.1543	0.4060	0.0		0.3142	0.4458	NORMAL	
GROSS ALPHA					PCI/L								
20	** 1.0000	191.0000	+ 27.0500	NA		NA	NA	0.0		16.1000	111.0000	NONPARAMETRIC	9
GROSS BETA					PCI/L								
20	** 0.5000	165.0000	+ 24.3500	NA		NA	NA	0.0		4.9000	86.3000	NONPARAMETRIC	9
IRON					MG/L								
36	** 0.0300	14.2000	+ 0.0950	NA		NA	NA	36.1	**	0.0300	2.6200	NONPARAMETRIC	2
LEAD					MG/L								
27	** 0.0050	0.0250	0.0050	NA		NA	NA	100.0	**	0.0050	0.0100	NONPARAMETRIC	2
LEAD-210					PCI/L								
11	** 1.5000	6.5000	2.8000	3.2000		1.7889	0.5590	0.0		1.7092	4.6908	NORMAL	
MAGNESIUM					MG/L								
36	49.0000	625.0000	+ 197.0000	198.5444		139.5699	0.7030	0.0		141.8558	255.2331	NORMAL	
MANGANESE					MG/L								
36	0.1200	7.4900	+ 4.6600	3.5217		2.6485	0.7521	0.0		2.4459	4.5974	NORMAL	
MERCURY					MG/L								
22	** 0.0002	** 0.0002	** 0.0002	NA		NA	NA	100.0	**	0.0002	** 0.0002	NONPARAMETRIC	2
MOLYBDENUM					MG/L								
36	0.0100	2.4300	+ 0.2850	0.2275		5.2651	NA	0.0		0.1159	0.4466	LOGNORMAL	7,8

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

47

56 J.D.
6/15/93

TABLE 2. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME				UNITS					STATISTICAL RANGE 98% CONFIDENCE INTERVAL	DISTRIBUTION	FOOT
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	MINIMUM	MAXIMUM *	TYPE	NOTE
NET GROSS ALPHA ***				PCI/L							
20	-90.5500	149.8400	+ 6.1300	NA	NA	NA	0.0	-14.2100	48.7900	NONPARAMETRIC	9
NICKEL				MG/L							
32	** 0.0300	0.1100	** 0.0300	NA	NA	NA	78.1	** 0.0300	** 0.0300	NONPARAMETRIC	2
NITRATE				MG/L							
37	** 1.0000	1620.0000	34.0000	NA	NA	NA	18.9	7.5000	947.0000	NONPARAMETRIC	2
NITRITE AND NITRATE				MG/L							
17	0.0800	1320.0000	25.1000	16.3824	23.7505	NA	11.8	2.2520	119.1774	LOGNORMAL	7,8
PH				SU							
37	6.0800	7.3200	6.7400	NA	NA	NA	0.0	NA	NA	UNKNOWN	
PHOSPHATE				MG/L							
28	** 0.0100	0.1000	+ 0.0500	NA	NA	NA	53.6	0.0500	0.1000	NONPARAMETRIC	2
POLONIUM-210				PCI/L							
11	** 1.0000	** 1.0000	** 1.0000	NA	NA	NA	9.1	** 1.0000	** 1.0000	NONPARAMETRIC	9
POTASSIUM				MG/L							
36	7.5600	38.0000	+ 13.9500	16.4236	7.9689	0.4852	0.0	13.1869	19.6603	NORMAL	
RADIUM-226				PCI/L							
32	** 0.2000	3.3000	+ 0.4000	NA	NA	NA	0.0	0.2000	1.1000	NONPARAMETRIC	9

*** NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

87

6/15/93

TABLE 2. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE ALLUVIUM, UC PROCESSING SITE, SLICK ROCK, CO
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME				UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN					MINIMUM	MAXIMUM *		
RADIUM-226 + RADIUM-228				PCI/L								
27	0.0000	8.3000	1.5000	NA	NA	NA	0.0		1.1000	2.1000	NONPARAMETRIC	9
RADIUM-228				PCI/L								
27	** 1.0000	7.0000	1.0000	NA	NA	NA	0.0	**	1.0000	1.7000	NONPARAMETRIC	9
REDOX POTENTIAL				mVOLTS								
5	323.8000	543.8000	431.6000	437.3000	80.1157	0.1832	0.0		303.0494	571.5506	NORMAL	
SELENIUM				MG/L								
31	** 0.0050	1.1000	0.0150	NA	NA	NA	48.4	**	0.0050	0.0650	NONPARAMETRIC	2
SILICA - SiO2				MG/L								
33	7.0000	22.0000	11.8000	13.0758	4.3822	0.3351	0.0		11.2083	14.9432	NORMAL	
SILVER				MG/L								
22	** 0.0100	** 0.0100	** 0.0100	NA	NA	NA	100.0	**	0.0100	** 0.0100	NONPARAMETRIC	2
SODIUM				MG/L								
36	91.1000	1280.0000	+ 182.5000	229.6092	2.1072	NA	0.0		169.6348	310.7876	LOGNORMAL	7,8
SPECIFIC CONDUCTANCE				UMHO/CM								
37	208.0000	11420.0000	3400.0000	3285.0000	2211.2149	0.6731	0.0		2400.1887	4169.8113	NORMAL	
STRONTIUM				MG/L								
21	1.1000	8.7600	3.6500	3.4767	2.1864	0.6289	0.0		2.2706	4.6828	NORMAL	

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

49

58 22.
6/15/93

TABLE 2. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE ALLUVIUM, UC PROCESSING SITE, SLICKROCK, CO
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/13/92
REPORT DATE: 05/07/93

PARAMETER NAME				UNITS					STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS		MINIMUM	MAXIMUM *		
SULFATE				MG/L								
37	198.0000	3160.0000	1490.0000	1372.8919	784.8024	0.5716	0.0		1058.8555	1686.9283	NORMAL	
SULFIDE				MG/L								
25	** 0.1000	4.5200	** 0.1000	NA	NA	NA	56.0	**	0.1000	0.3000	NONPARAMETRIC	2
TEMPERATURE				C - DEGREE								
37	9.5000	15.0000	13.0000	12.7459	1.6817	0.1319	0.0		12.0730	13.4189	NORMAL	
THALLIUM				MG/L								
21	** 0.0050	0.0500	0.0050	NA	NA	NA	100.0		0.0050	0.0150	NONPARAMETRIC	2
THORIUM-230				PCI/L								
11	** 0.3000	0.8000	0.3000	0.3455	0.2296	0.6647	0.0	**	0.3000	0.5368	NORMAL	
TIN				MG/L								
22	** 0.0050	0.0250	** 0.0050	NA	NA	NA	100.0	**	0.0050	0.0250	NONPARAMETRIC	2
TOTAL DISSOLVED SOLIDS				MG/L								
37	259.0000	9560.0000	3620.0000	3198.3243	2048.5935	0.6405	0.0		2378.5855	4018.0631	NORMAL	
TOTAL KJELDAHL NITROGEN				MG/L								
15	20.0000	130.0000	84.0000	76.4667	39.9944	0.5230	0.0		49.3699	103.5634	NORMAL	
TOTAL ORGANIC CARBON				MG/L								
20	2.0000	39.0000	+ 5.5000	6.9435	2.4660	NA	0.0		4.1593	11.5912	LOGNORMAL	7,8
TURBIDITY				NTU								
1	6.9000	6.9000	6.9000	NA	NA	NA	0.0		NA	NA	UNKNOWN	1

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

1950

TABLE 2. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY STATISTICS BY
 PARAMETER IN THE ALLUVIUM, UC PROCESSING SITE, SLICK ROCK, CO
 SITE: SRK01 SLICK ROCK (BOTH SITES)
 06/30/86 TO 10/13/92
 REPORT DATE: 05/07/93

PARAMETER NAME				UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN					MINIMUM	MAXIMUM *		
URANIUM				MG/L	0.0679	0.0506	0.7445	0.0	0.0477	0.0882	NORMAL	
37	0.0139	0.1950	0.0360									
VANADIUM				MG/L	NA	NA	NA	45.2	** 0.0100	0.3300	NONPARAMETRIC	2
31	** 0.0100	1.0400	0.0100									
ZINC				MG/L	NA	NA	NA	63.0	** 0.0050	0.0150	NONPARAMETRIC	2
27	** 0.0050	0.0690	0.0050									

** The reported value is the minimum detection limit of the data set

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

INPUT DATA FILENAME: M:\DART\SRK01\GWQ10034.DAT

60 Jd.
6/15/93

TABLE 3. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	0503	06/30/86	0001	AL	O	MG/L CaCO3		410.		-	-
	0503	10/14/87	0001	AL	O			411.		-	-
	0503	02/22/88	0001	AL	O			945.		-	-
	0503	05/16/90	0001	AL	O			452.		-	-
	0503	03/29/91	0001	AL	O			447.		-	-
	0503	08/08/91	0001	AL	O			515		-	-
	0503	12/05/91	0001	AL	O			470		-	-
	0503	10/09/92	0001	AL	O			466		-	-
	0504	07/01/86	0001	AL	D			441.		-	-
	0504	10/14/87	0001	AL	D			449.		-	-
	0504	02/22/88	0001	AL	D			435.		-	-
	0504	05/16/90	0001	AL	D			436.		-	-
	0504	08/27/91	0001	AL	D			410		-	-
	0504	12/05/91	0001	AL	D			403		-	-
	0504	10/09/92	0001	AL	D			415		-	-
	0512	07/01/86	0001	AL	O			252.		-	-
	0512	10/14/87	0001	AL	O			298.		-	-
	0512	02/22/88	0001	AL	O			255.		-	-
	0512	04/05/91	0001	AL	O			246.		-	-
	0512	08/08/91	0001	AL	O			284		-	-
	0512	12/05/91	0001	AL	O			249		-	-
	0512	10/09/92	0001	AL	O			273		-	-
ALUMINIUM	0503	06/30/86	0001	AL	O	MG/L		0.4		0.1	-
	0503	10/14/87	0001	AL	O			0.1		0.1	-
	0503	02/22/88	0001	AL	O			0.39		0.1	-
	0503	05/16/90	0001	AL	O		<	0.1		0.1	-
	0503	03/29/91	0001	AL	O			0.06		0.05	-
	0503	08/08/91	0001	AL	O			0.05		0.05	-
	0503	12/09/91	0001	AL	O		<	0.05		0.05	-
	0503	10/09/92	0001	AL	O		<	0.05		0.05	-
	0504	07/01/86	0001	AL	D			0.3		0.1	-
	0504	10/14/87	0001	AL	D			0.1		0.1	-
	0504	02/22/88	0001	AL	D			0.33		0.1	-
	0504	05/16/90	0001	AL	D		<	0.1		0.1	-
	0504	04/03/91	0001	AL	D		<	0.05	J	0.05	-
	0504	08/27/91	0001	AL	D		<	0.05		0.05	-
	0504	12/09/91	0001	AL	D		<	0.05		0.05	-
	0504	10/09/92	0001	AL	D		<	0.05		0.05	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE

6/15/93

TABLE 3. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALUMINUM	0512	07/01/86	0001	AL	O	MG/L		0.2		0.1	-
	0512	10/14/87	0001	AL	O		<	0.1		0.1	-
	0512	02/22/88	0001	AL	O			0.27		0.1	-
	0512	04/05/91	0001	AL	O		<	0.05		0.05	-
	0512	08/08/91	0001	AL	O		<	0.05		0.05	-
	0512	12/10/91	0001	AL	O		<	0.05		0.05	-
	0512	10/09/92	0001	AL	O		<	0.05		0.05	-
AMMONIUM	0503	06/30/86	0001	AL	O	MG/L	<	0.1		0.1	-
	0503	10/14/87	0001	AL	O			0.1		0.1	-
	0503	02/22/88	0001	AL	O			0.4		0.1	-
	0503	05/16/90	0001	AL	O		<	0.1		0.1	-
	0503	03/29/91	0001	AL	O			0.1		0.1	-
	0503	08/08/91	0001	AL	O			0.2		0.1	-
	0503	12/09/91	0001	AL	O			0.1		0.1	-
	0503	10/09/92	0001	AL	O		<	0.1		0.1	-
	0504	10/14/87	0001	AL	D			0.3		0.1	-
	0504	02/22/88	0001	AL	D		<	0.1		0.1	-
	0504	05/16/90	0001	AL	D		<	0.1		0.1	-
	0504	04/03/91	0001	AL	D			0.2	J	0.1	-
	0504	08/27/91	0001	AL	D			0.4		0.1	-
	0504	12/09/91	0001	AL	D			1.6		0.1	-
	0504	10/09/92	0001	AL	D			2.7		0.2	-
	0512	10/14/87	0001	AL	O		<	0.1		0.1	-
	0512	02/22/88	0001	AL	O		<	0.1		0.1	-
	0512	04/05/91	0001	AL	O			0.1		0.1	-
	0512	08/08/91	0001	AL	O			0.6		0.1	-
	0512	12/10/91	0001	AL	O			0.2		0.1	-
	0512	10/09/92	0001	AL	O			0.2	H	0.1	-
ANTIMONY	0503	06/30/86	0001	AL	O	MG/L	<	0.003		0.003	-
	0503	05/16/90	0001	AL	O			0.019		0.003	-
	0503	03/29/91	0001	AL	O		<	0.003		0.003	-
	0503	08/08/91	0001	AL	O		<	0.003		0.003	-
	0503	12/09/91	0001	AL	O		<	0.003		0.003	-
	0503	10/09/92	0001	AL	O		<	0.003		0.003	-
	0504	05/16/90	0001	AL	D			0.018		0.003	-
	0504	04/03/91	0001	AL	D		<	0.003	J	0.003	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
H - HOLD TIME EXPIRED, VALUE SUSPECT
J - ESTIMATED VALUE

5

62 220.
6/15/93

TABLE 3. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ANTIMONY	0504	08/27/91	0001	AL	D	MG/L	<	0.003		0.003	-
	0504	12/09/91	0001	AL	D		<	0.003		0.003	-
	0504	10/09/92	0001	AL	D		<	0.003		0.003	-
	0512	04/05/91	0001	AL	O		<	0.003		0.003	-
	0512	08/08/91	0001	AL	O			0.003		0.003	-
	0512	12/10/91	0001	AL	O		<	0.003		0.003	-
	0512	10/09/92	0001	AL	O		<	0.003		0.003	-
ARSENIC	0503	06/30/86	0001	AL	O	MG/L	<	0.01		0.01	-
	0503	10/14/87	0001	AL	O		<	0.01		0.01	-
	0503	05/16/90	0001	AL	O		<	0.01		0.01	-
	0503	03/29/91	0001	AL	O		<	0.01		0.01	-
	0503	08/08/91	0001	AL	O		<	0.01		0.01	-
	0503	12/09/91	0001	AL	O		<	0.05	I	0.05	-
	0503	10/09/92	0001	AL	O		<	0.005		0.005	-
	0504	07/01/86	0001	AL	D		<	0.01		0.01	-
	0504	10/14/87	0001	AL	D		<	0.01		0.01	-
	0504	05/16/90	0001	AL	D		<	0.01		0.01	-
	0504	04/03/91	0001	AL	D		<	0.01	J	0.01	-
	0504	08/27/91	0001	AL	D		<	0.01		0.01	-
	0504	12/09/91	0001	AL	D		<	0.05	I	0.05	-
	0504	10/09/92	0001	AL	D		<	0.005		0.005	-
	0512	07/01/86	0001	AL	O		<	0.01		0.01	-
	0512	10/14/87	0001	AL	O		<	0.01		0.01	-
	0512	04/05/91	0001	AL	O		<	0.01		0.01	-
	0512	08/08/91	0001	AL	O		<	0.01		0.01	-
	0512	12/10/91	0001	AL	O		<	0.01		0.01	-
	0512	10/09/92	0001	AL	O		<	0.005		0.005	-
BARIUM	0503	06/30/86	0001	AL	O	MG/L	<	0.1		0.1	-
	0503	10/14/87	0001	AL	O		<	0.1		0.1	-
	0503	05/16/90	0001	AL	O		<	0.1		0.1	-
	0503	03/29/91	0001	AL	O			0.01		0.01	-
	0503	08/08/91	0001	AL	O			0.02		0.01	-
	0503	12/09/91	0001	AL	O			0.02		0.01	-
	0503	10/09/92	0001	AL	O			0.02		0.01	-
	0504	10/14/87	0001	AL	D		<	0.1		0.1	-
	0504	05/16/90	0001	AL	D		<	0.1		0.1	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
J - ESTIMATED VALUE

57

TABLE 3. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
 PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
 SITE: SRK01 SLICK ROCK (BOTH SITES)
 06/30/86 TO 10/09/92
 REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION	LOG DATE	SAMPLE ID	FORM	FLOW	REL.	MEASURE	UNITS OF	PARAMETER	VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BARIUM	0504	04/03/91	0001	AL	D			MG/L	0.01	J		0.01	-
	0504	08/27/91	0001	AL	D				0.02			0.01	-
	0504	12/09/91	0001	AL	D				0.02			0.01	-
	0504	10/09/92	0001	AL	D				0.02			0.01	-
	0512	10/14/87	0001	AL	O				0.1			0.01	-
	0512	04/05/91	0001	AL	O				0.03			0.01	-
	0512	08/08/91	0001	AL	O				0.03			0.01	-
	0512	12/10/91	0001	AL	O				0.03			0.01	-
	0512	10/09/92	0001	AL	O				0.03			0.01	-
	0512	12/10/91	0001	AL	O				0.03			0.01	-
	0512	08/08/91	0001	AL	O				0.03			0.01	-
	0512	10/09/92	0001	AL	O				0.03			0.01	-
BERYLLIUM	0503	05/16/90	0001	AL	O			MG/L	0.01			0.01	-
	0503	03/29/91	0001	AL	O				0.005			0.005	-
	0503	08/08/91	0001	AL	O				0.005			0.005	-
	0503	12/09/91	0001	AL	O				0.005			0.005	-
	0504	05/16/90	0001	AL	D				0.01			0.01	-
	0504	04/03/91	0001	AL	D				0.005			0.005	-
	0504	08/27/91	0001	AL	D				0.005			0.005	-
	0504	12/09/91	0001	AL	D				0.005			0.005	-
	0504	10/09/92	0001	AL	D				0.005			0.005	-
	0504	10/14/87	0001	AL	D				0.005			0.005	-
	0504	04/05/91	0001	AL	D				0.005			0.005	-
	0512	08/08/91	0001	AL	O				0.005			0.005	-
BORON	0503	06/30/86	0001	AL	O			MG/L	0.1			0.1	-
	0503	10/14/87	0001	AL	O				0.4			0.1	-
	0503	05/16/90	0001	AL	O				0.4			0.1	-
	0503	03/29/91	0001	AL	O				0.35			0.05	-
	0503	08/08/91	0001	AL	O				0.34			0.05	-
	0503	12/09/91	0001	AL	O				0.35			0.05	-
	0504	10/14/87	0001	AL	D				0.6			0.1	-
	0504	05/16/90	0001	AL	D				0.4			0.1	-
	0504	04/03/91	0001	AL	D				0.31	J		0.05	-
	0504	08/27/91	0001	AL	D				0.36			0.05	-
	0504	12/09/91	0001	AL	D				0.32			0.05	-
	0512	10/14/87	0001	AL	O				0.1			0.1	-
BROMIDE	0512	04/05/91	0001	AL	O				0.09			0.05	-
	0512	08/08/91	0001	AL	O				0.11			0.05	-
	0512	12/10/91	0001	AL	O				0.09			0.05	-
	0512	03/29/91	0001	AL	O				0.6			0.1	-
	0512	08/08/91	0001	AL	O				0.11			0.05	-
	0512	12/10/91	0001	AL	O				0.09			0.05	-
	0512	03/29/91	0001	AL	O				0.1			0.05	-
	0512	08/08/91	0001	AL	O				0.11			0.05	-
	0512	12/10/91	0001	AL	O				0.09			0.05	-
	0512	03/29/91	0001	AL	O				0.1			0.05	-
	0512	08/08/91	0001	AL	O				0.11			0.05	-
	0512	12/10/91	0001	AL	O				0.09			0.05	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM
 FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): > - LESS THAN DETECTION LIMIT
 SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

64 J.L.
6/15/93

TABLE 3. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BROMIDE	0503	08/08/91	0001	AL	O	MG/L		0.3		0.3	-
	0503	12/09/91	0001	AL	O			0.5		0.4	-
	0503	10/09/92	0001	AL	O		<	2.	I	2.	-
	0504	04/03/91	0001	AL	D			0.4	J	0.1	-
	0504	08/27/91	0001	AL	D		<	1.0	I	1.	-
	0504	12/09/91	0001	AL	D			0.2		0.2	-
	0504	10/09/92	0001	AL	D		<	1.	I	1.	-
	0512	04/05/91	0001	AL	O			0.2		0.1	-
	0512	08/08/91	0001	AL	O			0.2		0.2	-
	0512	12/10/91	0001	AL	O			0.1		0.1	-
	0512	10/09/92	0001	AL	O		<	0.5	I	0.5	-
CADMIUM	0503	06/30/86	0001	AL	O	MG/L	<	0.001		0.001	-
	0503	10/14/87	0001	AL	O		<	0.001		0.001	-
	0503	05/16/90	0001	AL	O		<	0.001		0.001	-
	0503	03/29/91	0001	AL	O		<	0.0005		0.0005	-
	0503	08/08/91	0001	AL	O		<	0.001		0.001	-
	0503	12/09/91	0001	AL	O		<	0.001		0.001	-
	0503	10/09/92	0001	AL	O		<	0.001		0.001	-
	0504	10/14/87	0001	AL	D		<	0.001		0.001	-
	0504	05/16/90	0001	AL	D		<	0.001		0.001	-
	0504	04/03/91	0001	AL	D		<	0.0005	J	0.0005	-
	0504	08/27/91	0001	AL	D		<	0.001		0.001	-
	0504	12/09/91	0001	AL	D		<	0.001		0.001	-
	0504	10/09/92	0001	AL	D		<	0.001		0.001	-
	0512	10/14/87	0001	AL	O		<	0.001		0.001	-
	0512	04/05/91	0001	AL	O		<	0.0005		0.0005	-
	0512	08/08/91	0001	AL	O		<	0.001		0.001	-
	0512	12/10/91	0001	AL	O		<	0.001		0.001	-
	0512	10/09/92	0001	AL	O		<	0.001		0.001	-
CALCIUM	0503	06/30/86	0001	AL	O	MG/L		264.		0.01	-
	0503	10/14/87	0001	AL	O			237.		0.01	-
	0503	02/22/88	0001	AL	O			234.		0.01	-
	0503	05/16/90	0001	AL	O			213.		0.01	-
	0503	03/29/91	0001	AL	O			200.		0.5	-
	0503	08/08/91	0001	AL	O			204.		0.5	-
	0503	12/09/91	0001	AL	O			179.		0.5	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
J - ESTIMATED VALUE

56

6/15/93

TABLE 3. ON-SITE AND DOWNGRAIDENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CALCIUM	0503	10/09/92	0001	AL	O	MG/L	174.		0.5	-
	0504	07/01/86	0001	AL	D		226.		0.01	-
	0504	10/14/87	0001	AL	D		244.		0.01	-
	0504	02/22/88	0001	AL	D		271.		0.01	-
	0504	05/16/90	0001	AL	D		159.		0.01	-
	0504	04/03/91	0001	AL	D		147.	J	0.5	-
	0504	08/27/91	0001	AL	D		154.		0.5	-
	0504	12/09/91	0001	AL	D		124.		0.5	-
	0504	10/09/92	0001	AL	D		107.		0.5	-
	0512	07/01/86	0001	AL	O		210.		0.01	-
	0512	10/14/87	0001	AL	O		295.		0.01	-
	0512	02/22/88	0001	AL	O		196.		0.01	-
	0512	04/05/91	0001	AL	O		191.		0.5	-
	0512	08/08/91	0001	AL	O		194.		0.5	-
	0512	12/10/91	0001	AL	O		146.		0.5	-
	0512	10/09/92	0001	AL	O		254.		0.5	-
CHLORIDE	0503	06/30/86	0001	AL	O	MG/L	380.		1.	-
	0503	10/14/87	0001	AL	O		296.		1.	-
	0503	02/22/88	0001	AL	O		342.		1.	-
	0503	05/16/90	0001	AL	O		325.		1.	-
	0503	03/29/91	0001	AL	O		324.		0.5	-
	0503	08/08/91	0001	AL	O		354.		1.	-
	0503	12/09/91	0001	AL	O		331.		4.	-
	0503	10/09/92	0001	AL	O		325.		5.	-
	0504	07/01/86	0001	AL	D		360.		1.	-
	0504	10/14/87	0001	AL	D		315.		1.	-
	0504	02/22/88	0001	AL	D		380.		1.	-
	0504	05/16/90	0001	AL	D		227.		1.	-
	0504	04/03/91	0001	AL	D		520.	J	0.5	-
	0504	08/27/91	0001	AL	D		189.		1.	-
	0504	12/09/91	0001	AL	D		172.		1.	-
	0504	10/09/92	0001	AL	D		145.		1.	-
	0512	07/01/86	0001	AL	O		80.		1.	-
	0512	10/14/87	0001	AL	O		104.		1.	-
	0512	02/22/88	0001	AL	O		65.		1.	-
	0512	04/05/91	0001	AL	O		82.		0.5	-
	0512	08/08/91	0001	AL	O		78.		1.	-
	0512	12/10/91	0001	AL	O		68.		1.	-

FORMATION OF COMPLETION CODE:

AL - ALLUVIUM

FLOW RELATIONSHIP CODE:

O - ON-SITE

D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

J - ESTIMATED VALUE

57

66 50
6/15/93

TABLE 3. ON-SITE AND DOWNGRAIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CHLORIDE	0512	10/09/92	0001	AL	O	MG/L		78.		1.	-
CHROMIUM	0503	06/30/86	0001	AL	O	MG/L		0.05		0.01	-
	0503	10/14/87	0001	AL	O		<	0.01		0.01	-
	0503	05/16/90	0001	AL	O		<	0.01		0.01	-
	0503	03/29/91	0001	AL	O		<	0.01		0.01	-
	0503	08/08/91	0001	AL	O		<	0.01		0.01	-
	0503	12/09/91	0001	AL	O		<	0.01		0.01	-
	0503	10/09/92	0001	AL	O		<	0.01		0.01	-
	0504	10/14/87	0001	AL	D		<	0.01		0.01	-
	0504	05/16/90	0001	AL	D		<	0.01		0.01	-
	0504	04/03/91	0001	AL	D		<	0.01	J	0.01	-
	0504	08/27/91	0001	AL	D		<	0.01		0.01	-
	0504	12/09/91	0001	AL	D		<	0.01		0.01	-
	0504	10/09/92	0001	AL	D		<	0.01		0.01	-
	0512	10/14/87	0001	AL	O		<	0.01		0.01	-
	0512	04/05/91	0001	AL	O		<	0.01		0.01	-
	0512	08/08/91	0001	AL	O		<	0.01		0.01	-
	0512	12/10/91	0001	AL	O		<	0.01		0.01	-
	0512	10/09/92	0001	AL	O		<	0.01		0.01	-
COBALT	0503	05/16/90	0001	AL	O	MG/L	<	0.05		0.05	-
	0503	03/29/91	0001	AL	O		<	0.03		0.03	-
	0503	08/08/91	0001	AL	O		<	0.03		0.03	-
	0503	12/09/91	0001	AL	O		<	0.03		0.03	-
	0504	05/16/90	0001	AL	D		<	0.05		0.05	-
	0504	04/03/91	0001	AL	D		<	0.03	J	0.03	-
	0504	08/27/91	0001	AL	D		<	0.03		0.03	-
	0504	12/09/91	0001	AL	D		<	0.03		0.03	-
	0512	04/05/91	0001	AL	O		<	0.03		0.03	-
	0512	08/08/91	0001	AL	O		<	0.03		0.03	-
	0512	12/10/91	0001	AL	O		<	0.03		0.03	-
COPPER	0503	06/30/86	0001	AL	O	MG/L		0.05		0.02	-
	0503	10/14/87	0001	AL	O		<	0.02		0.02	-
	0503	05/16/90	0001	AL	O		<	0.02		0.02	-
	0503	03/29/91	0001	AL	O		<	0.01		0.01	-
	0503	08/08/91	0001	AL	O		<	0.01		0.01	-
	0503	12/09/91	0001	AL	O		<	0.01		0.01	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE

CC

TABLE 3. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
COPPER	0503	10/09/92	0001	AL	O	MG/L	< 0.01		0.01	-
	0504	10/14/87	0001	AL	D		< 0.02		0.02	-
	0504	05/16/90	0001	AL	D		< 0.02		0.02	-
	0504	04/03/91	0001	AL	D		< 0.01	J	0.01	-
	0504	08/27/91	0001	AL	D		< 0.01		0.01	-
	0504	12/09/91	0001	AL	D		< 0.01		0.01	-
	0504	10/09/92	0001	AL	D		< 0.01		0.01	-
	0512	10/14/87	0001	AL	O		< 0.02		0.02	-
	0512	04/05/91	0001	AL	O		< 0.01		0.01	-
	0512	08/08/91	0001	AL	O		< 0.01		0.01	-
	0512	12/10/91	0001	AL	O		< 0.01		0.01	-
	0512	10/09/92	0001	AL	O		< 0.01		0.01	-
CYANIDE	0503	03/29/91	0001	AL	O	MG/L	< 0.01		0.01	-
	0503	08/08/91	0001	AL	O		< 0.01		0.01	-
	0503	12/09/91	0001	AL	O		< 0.01		0.01	-
	0504	04/03/91	0001	AL	D		< 0.01	J	0.01	-
	0504	08/27/91	0001	AL	D		< 0.01		0.01	-
	0504	12/09/91	0001	AL	D		< 0.01		0.01	-
	0512	04/05/91	0001	AL	O		< 0.01		0.01	-
	0512	08/08/91	0001	AL	O		< 0.02		0.01	-
	0512	12/10/91	0001	AL	O		< 0.01		0.01	-
	0503	10/09/92	0001	AL	O		< 0.01		0.01	-
	0504	10/09/92	0001	AL	D		0.1		-	-
	0512	10/09/92	0001	AL	O		0.1		-	-
DISSOLVED OXYGEN	0503	10/09/92	0001	AL	O	MG/L	0.1		-	-
	0504	10/09/92	0001	AL	D		0.1		-	-
	0512	10/09/92	0001	AL	O		1.1		-	-
FIELD FE (2+)	0503	10/09/92	0001	AL	O	MG/L	2.34		-	-
	0504	10/09/92	0001	AL	D		3.58		-	-
	0512	10/09/92	0001	AL	O		0.75		-	-
FIELD FE (TOTAL)	0503	10/09/92	0001	AL	O	MG/L	2.42		-	-
	0512	10/09/92	0001	AL	O		85		-	-
FLUORIDE	0503	06/30/86	0001	AL	O	MG/L	0.3		0.1	-
	0503	10/14/87	0001	AL	O		0.1		0.1	-
	0503	02/22/88	0001	AL	O		0.24		0.1	-
	0503	05/16/90	0001	AL	O		0.2		0.1	-
	0503	03/29/91	0001	AL	O		0.3		0.1	-

FORMATION OF COMPLETION CODE:

AL - ALLUVIUM

FLOW RELATIONSHIP CODE:

O - ON-SITE

D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (<.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

J - ESTIMATED VALUE

68 6/15/2
D.D.

TABLE 3. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
FLUORIDE	0503	08/08/91	0001	AL	O	MG/L	0.4		0.1	-
	0503	12/09/91	0001	AL	O		0.2		0.1	-
	0503	10/09/92	0001	AL	O		0.3		0.1	-
	0504	10/14/87	0001	AL	D		0.1		0.1	-
	0504	02/22/88	0001	AL	D		0.15		0.1	-
	0504	05/16/90	0001	AL	D		0.2		0.1	-
	0504	04/03/91	0001	AL	D		0.1	J	0.1	-
	0504	08/27/91	0001	AL	D		0.1		0.1	-
	0504	12/09/91	0001	AL	D		0.1		0.1	-
	0504	10/09/92	0001	AL	D		0.1		0.1	-
	0512	10/14/87	0001	AL	O		0.3		0.1	-
	0512	02/22/88	0001	AL	O		0.32		0.1	-
	0512	04/05/91	0001	AL	O		0.3		0.1	-
	0512	08/08/91	0001	AL	O		0.3		0.1	-
	0512	12/10/91	0001	AL	O		0.3		0.1	-
	0512	10/09/92	0001	AL	O		0.3		0.1	-
GROSS ALPHA	0503	03/29/91	0001	AL	O	PCI/L	2299.		1.	118.
	0503	08/08/91	0001	AL	O		1821.		1.	108.
	0503	12/05/91	0001	AL	O		2175.		1.	165.
	0503	10/09/92	0001	AL	O		1610.	N	37.8	99.3
	0504	04/03/91	0001	AL	D		1177.	J	1.	85.7
	0504	08/27/91	0001	AL	D		768.3		1.	63.7
	0504	12/05/91	0001	AL	D		718.		1.	80.4
	0504	10/09/92	0001	AL	D		641.	N	25.0	51.7
	0512	04/05/91	0001	AL	O		1222.		1.	58.2
	0512	08/08/91	0001	AL	O		916.		1.	51.1
	0512	12/05/91	0001	AL	O		870.		1.	66.1
	0512	10/09/92	0001	AL	O		1460.	N	22.5	72.3
GROSS BETA	0503	03/29/91	0001	AL	O	PCI/L	875.		0.5	37.3
	0503	08/08/91	0001	AL	O		984.		0.5	44.0
	0503	12/05/91	0001	AL	O		885.		0.5	55.6
	0503	10/09/92	0001	AL	O		577.	*N	33.7	37.9
	0504	04/03/91	0001	AL	D		340.	J	0.5	25.6
	0504	08/27/91	0001	AL	D		319.		0.5	21.7
	0504	12/05/91	0001	AL	D		264.		0.5	27.9

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
• - DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS
J - ESTIMATED VALUE
N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS

67 20.
6/15/93

TABLE 3. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
GROSS BETA	0504	10/09/92	0001	AL	D	PCI/L		188.	*N	22.8	20.3
	0512	04/05/91	0001	AL	O			526.		0.5	19.3
	0512	08/08/91	0001	AL	O			512.		0.5	19.2
	0512	12/05/91	0001	AL	O			521.		0.5	26.1
	0512	10/09/92	0001	AL	O			432.	*N	19.1	23.9
IRON	0503	06/30/86	0001	AL	O	MG/L		3.2		0.03	-
	0503	10/14/87	0001	AL	O			2.97		0.03	-
	0503	02/22/88	0001	AL	O			1.57		0.03	-
	0503	05/16/90	0001	AL	O			2.52		0.03	-
	0503	03/29/91	0001	AL	O			1.94		0.03	-
	0503	08/08/91	0001	AL	O			2.39		0.03	-
	0503	12/09/91	0001	AL	O			2.16		0.03	-
	0503	10/09/92	0001	AL	O			2.37		0.03	-
	0504	07/01/86	0001	AL	D			6.06		0.03	-
	0504	10/14/87	0001	AL	D			6.9		0.03	-
	0504	02/22/88	0001	AL	D			8.80		0.03	-
	0504	05/16/90	0001	AL	D			4.78		0.03	-
	0504	04/03/91	0001	AL	D			3.94	J	0.03	-
	0504	08/27/91	0001	AL	D			4.90		0.03	-
	0504	12/09/91	0001	AL	D			3.90		0.03	-
	0504	10/09/92	0001	AL	D			3.44		0.03	-
	0512	07/01/86	0001	AL	O			0.07		0.03	-
	0512	10/14/87	0001	AL	O			0.20		0.03	-
	0512	02/22/88	0001	AL	O			0.18		0.03	-
	0512	04/05/91	0001	AL	O			0.69		0.03	-
	0512	08/08/91	0001	AL	O			0.34		0.03	-
	0512	12/10/91	0001	AL	O			0.72		0.03	-
	0512	10/09/92	0001	AL	O			0.65		0.03	-
LEAD	0503	06/30/86	0001	AL	O	MG/L	<	0.01		0.01	-
	0503	10/14/87	0001	AL	O		<	0.01		0.01	-
	0503	05/16/90	0001	AL	O		<	0.01		0.01	-
	0503	03/29/91	0001	AL	O		<	0.005		0.005	-
	0503	08/08/91	0001	AL	O		<	0.005		0.005	-
	0503	12/09/91	0001	AL	O		<	0.005		0.005	-
	0503	10/09/92	0001	AL	O		<	0.003		0.003	-
	0504	10/14/87	0001	AL	D		<	0.01		0.01	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

- - DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS
- J - ESTIMATED VALUE
- N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS

70 J.J.
6/15/93

TABLE 3. ON-SITE AND DOWNGRAIDENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
LEAD	0504	05/16/90	0001	AL	D	MG/L	<	0.01		0.01	-
	0504	04/03/91	0001	AL	D		<	0.005	J	0.005	-
	0504	08/27/91	0001	AL	D		<	0.005		0.005	-
	0504	12/09/91	0001	AL	D		<	0.005		0.005	-
	0504	10/09/92	0001	AL	D		<	0.003		0.003	-
	0512	10/14/87	0001	AL	O		<	0.01		0.01	-
	0512	04/05/91	0001	AL	O		<	0.005		0.005	-
	0512	08/08/91	0001	AL	O		<	0.005		0.005	-
	0512	12/10/91	0001	AL	O		<	0.005		0.005	-
	0512	10/09/92	0001	AL	O		<	0.02	I	0.02	-
LEAD-210	0503	06/30/86	0001	AL	O	PCI/L		33.		1.5	2.
	0503	08/08/91	0001	AL	O			157.		1.5	3.6
	0503	12/05/91	0001	AL	O			216.		1.5	6.0
	0504	08/27/91	0001	AL	D			40.5		1.5	2.1
	0504	12/05/91	0001	AL	D			65.5		1.5	3.5
	0512	08/08/91	0001	AL	O			105.		1.5	3.0
	0512	12/05/91	0001	AL	O			119.		1.5	4.5
MAGNESIUM	0503	06/30/86	0001	AL	O	MG/L		127.		0.001	-
	0503	10/14/87	0001	AL	O			114.		0.001	-
	0503	02/22/88	0001	AL	O			110.		0.001	-
	0503	05/16/90	0001	AL	O			99.6		0.001	-
	0503	03/29/91	0001	AL	O			97.3		0.5	-
	0503	08/08/91	0001	AL	O			99.3		0.5	-
	0503	12/09/91	0001	AL	O			87.8		0.5	-
	0503	10/09/92	0001	AL	O			84.8		0.5	-
	0504	07/01/86	0001	AL	D			161.		0.001	-
	0504	10/14/87	0001	AL	D			199.		0.001	-
	0504	02/22/88	0001	AL	D			200.		0.001	-
	0504	05/16/90	0001	AL	D			98.4		0.001	-
	0504	04/03/91	0001	AL	D			86.9	J	0.5	-
	0504	08/27/91	0001	AL	D			89.7		0.5	-
	0504	12/09/91	0001	AL	D			71.2		0.5	-
	0504	10/09/92	0001	AL	D			63.0		0.5	-
	0512	07/01/86	0001	AL	O			48.1		0.001	-
	0512	10/14/87	0001	AL	O			67.		0.001	-
	0512	02/22/88	0001	AL	O			40.9		0.001	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
J - ESTIMATED VALUE

71 J-L
6/15/93

TABLE 3. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MAGNESIUM	0512	04/05/91	0001	AL	O	MG/L		44.5		0.1	-
	0512	08/08/91	0001	AL	O			45.2		0.1	-
	0512	12/10/91	0001	AL	O			36.8		0.1	-
	0512	10/09/92	0001	AL	O			60.0		0.5	-
MANGANESE	0503	06/30/86	0001	AL	O	MG/L		0.68		0.01	-
	0503	10/14/87	0001	AL	O			0.55		0.01	-
	0503	02/22/88	0001	AL	O			0.62		0.01	-
	0503	05/16/90	0001	AL	O			0.47		0.01	-
	0503	03/29/91	0001	AL	O			0.37		0.01	-
	0503	08/08/91	0001	AL	O			0.46		0.01	-
	0503	12/09/91	0001	AL	O			0.40		0.01	-
	0503	10/09/92	0001	AL	O			0.38		0.01	-
	0504	07/01/86	0001	AL	D			0.83		0.01	-
	0504	10/14/87	0001	AL	D			0.67		0.01	-
	0504	02/22/88	0001	AL	D			0.86		0.01	-
	0504	05/16/90	0001	AL	D			0.54		0.01	-
	0504	04/03/91	0001	AL	D			0.54	J	0.01	-
	0504	08/27/91	0001	AL	D			0.55		0.01	-
	0504	12/09/91	0001	AL	D			0.45		0.01	-
	0504	10/09/92	0001	AL	D			0.39		0.01	-
	0512	07/01/86	0001	AL	O			0.09		0.01	-
	0512	10/14/87	0001	AL	O			0.32		0.01	-
	0512	02/22/88	0001	AL	O			0.13		0.01	-
	0512	04/05/91	0001	AL	O			0.25		0.01	-
	0512	08/08/91	0001	AL	O			0.40		0.01	-
	0512	12/10/91	0001	AL	O			0.38		0.01	-
	0512	10/09/92	0001	AL	O			0.44		0.01	-
MERCURY	0503	06/30/86	0001	AL	O	MG/L	<	0.0002		0.0002	-
	0503	10/14/87	0001	AL	O		<	0.0002		0.0002	-
	0503	05/16/90	0001	AL	O		<	0.0002		0.0002	-
	0503	03/29/91	0001	AL	O		<	0.0002		0.0002	-
	0503	08/08/91	0001	AL	O		<	0.0002		0.0002	-
	0503	12/09/91	0001	AL	O		<	0.0002		0.0002	-
	0504	10/14/87	0001	AL	D		<	0.0002		0.0002	-
	0504	05/16/90	0001	AL	D		<	0.0002		0.0002	-
	0504	04/03/91	0001	AL	D		<	0.0002	J	0.0002	-
	0504	08/27/91	0001	AL	D		<	0.0002		0.0002	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE

63

72 J.D.
6/15/93

TABLE 3. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MERCURY	0504	12/09/91	0001	AL	D	MG/L	<	0.0002		0.0002	-
	0512	10/14/87	0001	AL	O		<	0.0002		0.0002	-
	0512	04/05/91	0001	AL	O		<	0.0002		0.0002	-
	0512	08/08/91	0001	AL	O		<	0.0002		0.0002	-
	0512	12/10/91	0001	AL	O		<	0.0002		0.0002	-
MOLYBDENUM	0503	06/30/86	0001	AL	O	MG/L		0.07		0.01	-
	0503	10/14/87	0001	AL	O			0.02		0.01	-
	0503	02/22/88	0001	AL	O			0.14		0.01	-
	0503	05/16/90	0001	AL	O			0.04		0.01	-
	0503	03/29/91	0001	AL	O			0.03		0.01	-
	0503	08/08/91	0001	AL	O			0.03		0.01	-
	0503	12/09/91	0001	AL	O			0.03		0.01	-
	0503	10/09/92	0001	AL	O			0.03		0.01	-
	0504	07/01/86	0001	AL	D			0.06		0.01	-
	0504	10/14/87	0001	AL	D		<	0.01		0.01	-
	0504	02/22/88	0001	AL	D			0.17		0.01	-
	0504	05/16/90	0001	AL	D			0.02		0.01	-
	0504	04/03/91	0001	AL	D		<	0.01	J	0.01	-
	0504	08/27/91	0001	AL	D		<	0.01		0.01	-
	0504	12/09/91	0001	AL	D		<	0.01		0.01	-
	0504	10/09/92	0001	AL	D			0.01		0.01	-
	0512	07/01/86	0001	AL	O			0.11		0.01	-
	0512	10/14/87	0001	AL	O		<	0.01		0.01	-
	0512	02/22/88	0001	AL	O			0.02		0.01	-
	0512	04/05/91	0001	AL	O		<	0.01		0.01	-
	0512	08/08/91	0001	AL	O		<	0.01		0.01	-
	0512	12/10/91	0001	AL	O		<	0.01		0.01	-
	0512	10/09/92	0001	AL	O		<	0.01		0.01	-
NET GROSS ALPHA *	0503	03/29/91	0001	AL	O	PCI/L		-26.54		-	-
	0503	08/08/91	0001	AL	O			-136.84		-	-
	0503	12/05/91	0001	AL	O			123.86		-	-
	0503	10/09/92	0001	AL	O			-399.98		-	-
	0504	04/03/91	0001	AL	D			99.98		-	-
	0504	08/27/91	0001	AL	D			139.92		-	-
	0504	12/05/91	0001	AL	D			121.18		-	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE

64

73 22.2
6/15/93

TABLE 3. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NET GROSS ALPHA *	0504	10/09/92	0001	AL	D	PCI/L	33.20		-	-
	0512	04/05/91	0001	AL	O		-493.00		-	-
	0512	08/08/91	0001	AL	O		-622.70		-	-
	0512	12/05/91	0001	AL	O		-296.20		-	-
	0512	10/09/92	0001	AL	O		-440.22		-	-
NICKEL	0503	06/30/86	0001	AL	O	MG/L	< 0.04		0.04	-
	0503	10/14/87	0001	AL	O		< 0.04		0.04	-
	0503	02/22/88	0001	AL	O		< 0.04		0.04	-
	0503	05/16/90	0001	AL	O		< 0.04		0.04	-
	0503	03/29/91	0001	AL	O		< 0.04		0.04	-
	0503	08/08/91	0001	AL	O		< 0.04		0.04	-
	0503	12/09/91	0001	AL	O		< 0.04		0.04	-
	0503	10/09/92	0001	AL	O		< 0.04		0.04	-
	0504	10/14/87	0001	AL	D		< 0.04		0.04	-
	0504	02/22/88	0001	AL	D		< 0.07		0.04	-
	0504	05/16/90	0001	AL	D		< 0.04		0.04	-
	0504	04/03/91	0001	AL	D		< 0.04	J	0.04	-
	0504	08/27/91	0001	AL	D		< 0.04		0.04	-
	0504	12/09/91	0001	AL	D		< 0.04		0.04	-
	0504	10/09/92	0001	AL	D		< 0.04		0.04	-
	0512	10/14/87	0001	AL	O		< 0.04		0.04	-
	0512	02/22/88	0001	AL	O		< 0.02	c	0.02	-
	0512	04/05/91	0001	AL	O		< 0.04		0.04	-
	0512	08/08/91	0001	AL	O		< 0.04		0.04	-
	0512	12/10/91	0001	AL	O		< 0.04		0.04	-
	0512	10/09/92	0001	AL	O		< 0.04		0.04	-
NITRATE	0503	06/30/86	0001	AL	O	MG/L	< 1.		1.	-
	0503	10/14/87	0001	AL	O		< 1.0		1.	-
	0503	02/22/88	0001	AL	O		< 0.7	c	0.7	-
	0503	05/16/90	0001	AL	O		< 1.		1.	-
	0503	03/29/91	0001	AL	O		< 1.0		1.	-
	0503	08/08/91	0001	AL	O		< 1.0		1.	-
	0503	12/09/91	0001	AL	O		< 1.0		1.	-
	0503	10/09/92	0001	AL	O		2.7		1.0	-

• NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE
c - CHANGED DETECTION LIMIT

65

74 DJ
6/15/93

TABLE 3. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NITRATE	0504	07/01/86	0001	AL	D	MG/L	<	1.		1.	-
	0504	10/14/87	0001	AL	D		<	1.0		1.	-
	0504	02/22/88	0001	AL	D		<	0.1		1.	-
	0504	05/16/90	0001	AL	D		<	1.		1.	-
	0504	04/03/91	0001	AL	D			1.	J	1.	-
	0504	08/27/91	0001	AL	D			5.7		1.	-
	0504	12/09/91	0001	AL	D		<	1.0		1.	-
	0504	10/09/92	0001	AL	D			5.2		1.0	-
	0512	07/01/86	0001	AL	O		<	1.		1.	-
	0512	10/14/87	0001	AL	O		<	1.0		1.	-
	0512	02/22/88	0001	AL	O		<	0.1		1.	-
	0512	04/05/91	0001	AL	O		<	1.0		1.	-
	0512	08/08/91	0001	AL	O		<	1.0		1.	-
	0512	12/10/91	0001	AL	O		<	1.0		1.	-
	0512	10/09/92	0001	AL	O			6.5		1.0	-
NITRITE AND NITRATE	0503	02/22/88	0001	AL	O	MG/L		0.4	c	0.4	-
	0503	05/16/90	0001	AL	O		<	1.		1.	-
	0503	03/29/91	0001	AL	O			0.24		0.05	-
	0503	08/08/91	0001	AL	O			0.13		0.05	-
	0504	02/22/88	0001	AL	D		<	0.1		1.	-
	0504	05/16/90	0001	AL	D		<	1.		1.	-
	0504	04/03/91	0001	AL	D			0.35	J	0.05	-
	0504	08/27/91	0001	AL	D			1.29		0.05	-
	0512	02/22/88	0001	AL	O		<	0.1		1.	-
	0512	04/05/91	0001	AL	O			0.17		0.05	-
	0512	08/08/91	0001	AL	O			0.11		0.05	-
PH	0503	06/30/86	0001	AL	O	SU		7.		-	-
	0503	10/14/87	0001	AL	O			6.95		-	-
	0503	02/22/88	0001	AL	O			7.22		-	-
	0503	05/16/90	0001	AL	O			7.21		-	-
	0503	03/29/91	0001	AL	O			6.91		-	-
	0503	08/08/91	0001	AL	O			6.89		-	-
	0503	12/05/91	0001	AL	O			6.97		-	-
	0503	10/09/92	0001	AL	O			7.08		-	-
	0504	07/01/86	0001	AL	D			7.22		-	-
	0504	10/14/87	0001	AL	D			7.05		-	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE
c - CHANGED DETECTION LIMIT

75 J.L.
6/15/93

TABLE 3. ON-SITE AND DOWNGRAIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PH	0504	02/22/88	0001	AL	D	SU		7.13		-	-
	0504	05/16/90	0001	AL	D			7.23		-	-
	0504	08/27/91	0001	AL	D			7.07		-	-
	0504	12/05/91	0001	AL	D			7.12		-	-
	0504	10/09/92	0001	AL	D			7.12		-	-
	0512	07/01/86	0001	AL	O			7.04		-	-
	0512	10/14/87	0001	AL	O			6.88		-	-
	0512	02/22/88	0001	AL	O			7.09		-	-
	0512	04/05/91	0001	AL	O			6.96		-	-
	0512	08/08/91	0001	AL	O			7.01		-	-
	0512	12/05/91	0001	AL	O			7.14		-	-
	0512	10/09/92	0001	AL	O			6.85		-	-
PHOSPHATE	0503	06/30/86	0001	AL	O	MG/L		0.1		0.1	-
	0503	10/14/87	0001	AL	O		<	0.1		0.1	-
	0503	05/16/90	0001	AL	O		<	0.1		0.1	-
	0503	03/29/91	0001	AL	O		<	0.1		0.1	-
	0503	08/08/91	0001	AL	O			0.1		0.1	-
	0503	12/09/91	0001	AL	O			0.2		0.1	-
	0503	10/09/92	0001	AL	O			0.1	J	0.1	-
	0504	10/14/87	0001	AL	D		<	0.1		0.1	-
	0504	05/16/90	0001	AL	D		<	0.1		0.1	-
	0504	04/03/91	0001	AL	D		<	0.1	J	0.1	-
	0504	08/27/91	0001	AL	D		<	0.1		0.1	-
	0504	12/09/91	0001	AL	D		<	0.1		0.1	-
	0504	10/09/92	0001	AL	D			0.3	J	0.1	-
	0512	10/14/87	0001	AL	O		<	0.1		0.1	-
	0512	04/05/91	0001	AL	O		<	0.1		0.1	-
	0512	08/08/91	0001	AL	O			0.1		0.1	-
	0512	12/10/91	0001	AL	O			0.1		0.1	-
	0512	10/09/92	0001	AL	O		<	0.1	J	0.1	-
POLONIUM-210	0503	06/30/86	0001	AL	O	PCI/L		0.8		1.	0.7
	0503	08/08/91	0001	AL	O			0.1		1.	0.2
	0503	12/05/91	0001	AL	O			0.0		1.	0.4
	0504	08/27/91	0001	AL	D			0.1		1.	0.3
	0504	12/05/91	0001	AL	D			0.1		1.	0.5
	0512	08/08/91	0001	AL	O			0.3		1.	0.4
	0512	12/05/91	0001	AL	O			0.0		1.	0.3

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE

67

76 521
6/15/93

TABLE 3. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
POTASSIUM	0503	06/30/86	0001	AL	O	MG/L		44.7		0.01	-
	0503	10/14/87	0001	AL	O			41.		0.01	-
	0503	02/22/88	0001	AL	O			49.1		0.01	-
	0503	05/16/90	0001	AL	O			41.7		0.01	-
	0503	03/29/91	0001	AL	O			35.		5.	-
	0503	08/08/91	0001	AL	O			38.		5.	-
	0503	12/09/91	0001	AL	O			32.		5.	-
	0503	10/09/92	0001	AL	O			32.		5.	-
	0504	07/01/86	0001	AL	D			12.4		0.01	-
	0504	10/14/87	0001	AL	D			12.6		0.01	-
	0504	02/22/88	0001	AL	D			14.0		0.01	-
	0504	05/16/90	0001	AL	D			10.6		0.01	-
	0504	04/03/91	0001	AL	D			9.0	J	0.01	-
	0504	08/27/91	0001	AL	D			8.3		0.01	-
	0504	12/09/91	0001	AL	D			8.11		0.01	-
	0504	10/09/92	0001	AL	D			8.15		0.01	-
	0512	07/01/86	0001	AL	O			13.3		0.01	-
	0512	10/14/87	0001	AL	O			19.		0.01	-
	0512	02/22/88	0001	AL	O			13.1		0.01	-
	0512	04/05/91	0001	AL	O			12.		5.	-
	0512	08/08/91	0001	AL	O			12.2		0.02	-
	0512	12/10/91	0001	AL	O			11.		5.	-
	0512	10/09/92	0001	AL	O			13.		5.	-
RADIUM-226	0503	06/30/86	0001	AL	O	PCI/L		2.4		1.	0.6
	0503	02/22/88	0001	AL	O			1.1		1.	1.4
	0503	05/16/90	0001	AL	O			0.3	c	0.5	0.2
	0503	03/29/91	0001	AL	O			0.3		1.	0.2
	0503	08/08/91	0001	AL	O			0.6		1.	0.3
	0503	12/05/91	0001	AL	O			0.8		1.	0.4
	0503	10/09/92	0001	AL	O			0.4		0.8	0.5
	0504	02/22/88	0001	AL	D			0.2	c	0.4	0.2
	0504	05/16/90	0001	AL	D			0.1	c	0.3	0.2
	0504	04/03/91	0001	AL	D			0.1	J	1.	0.1
	0504	08/27/91	0001	AL	D			0.3		1.	0.2
	0504	12/05/91	0001	AL	D			0.0		1.	0.2
	0504	10/09/92	0001	AL	D			0.1		0.8	0.5
	0512	02/22/88	0001	AL	O		<	0.1	d	0.1	0.1

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE
c - CHANGED DETECTION LIMIT
d - CHANGED DETECTION LIMIT AND PARAMETER VALUE

68

TABLE 3. ON-SITE AND DOWNGRAIDENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
RADIUM-226	0512	04/05/91	0001	AL	O	PCI/L	0.1		1.	0.1
	0512	08/08/91	0001	AL	O		0.1		1.	0.2
	0512	12/05/91	0001	AL	O		0.4		1.	0.3
	0512	10/09/92	0001	AL	O		0.7		0.8	0.6
RADIUM-226 + RADIUM-228	0503	06/30/86	0001	AL	O	PCI/L	3.50		-	-
	0503	05/16/90	0001	AL	O		1.00		-	-
	0503	03/29/91	0001	AL	O		4.10		-	-
	0503	08/08/91	0001	AL	O		0.60		-	-
	0503	12/05/91	0001	AL	O		1.70		-	-
	0503	10/09/92	0001	AL	O		1.10		-	-
	0504	05/16/90	0001	AL	D		0.60		-	-
	0504	04/03/91	0001	AL	D		4.80		-	-
	0504	08/27/91	0001	AL	D		0.80		-	-
	0504	12/05/91	0001	AL	D		1.00		-	-
	0504	10/09/92	0001	AL	D		0.80		-	-
	0512	04/05/91	0001	AL	O		5.70		-	-
	0512	08/08/91	0001	AL	O		0.80		-	-
	0512	12/05/91	0001	AL	O		6.50		-	-
	0512	10/09/92	0001	AL	O		1.70		-	-
RADIUM-228	0503	06/30/86	0001	AL	O	PCI/L	1.1		1.	1.2
	0503	05/16/90	0001	AL	O		0.7		1.	0.7
	0503	03/29/91	0001	AL	O		3.8		1.	1.0
	0503	08/08/91	0001	AL	O		0.0		1.	1.5
	0503	12/05/91	0001	AL	O		0.9		1.	0.9
	0503	10/09/92	0001	AL	O		0.7		2.7	1.7
	0504	05/16/90	0001	AL	D		0.5		1.	0.7
	0504	04/03/91	0001	AL	D		4.7	J	1.	1.1
	0504	08/27/91	0001	AL	D		0.5		1.	2.0
	0504	12/05/91	0001	AL	D		1.0		1.	0.9
	0504	10/09/92	0001	AL	D		0.7		2.4	1.5
	0512	04/05/91	0001	AL	O		5.6		1.	1.1
	0512	08/08/91	0001	AL	O		0.7		1.	1.6
	0512	12/05/91	0001	AL	O		6.1		1.	1.4
	0512	10/09/92	0001	AL	O		1.0		2.4	1.5
REDOX POTENTIAL	0503	10/09/92	0001	AL	O	mVOLTS	252.8		-	-
	0504	10/09/92	0001	AL	D		77.8		-	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE

78 QJ
6/15/93

TABLE 3. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
REDOX POTENTIAL	0512	10/09/92	0001	AL	0	mVOLTS		455.3		-	-
SELENIUM	0503	06/30/86	0001	AL	0	MG/L	<	0.005		0.005	-
	0503	10/14/87	0001	AL	0		<	0.005		0.005	-
	0503	05/16/90	0001	AL	0			0.015		0.005	-
	0503	03/29/91	0001	AL	0		<	0.03	I	0.03	-
	0503	08/08/91	0001	AL	0		<	0.005		0.005	-
	0503	12/09/91	0001	AL	0		<	0.03	I	0.03	-
	0503	10/09/92	0001	AL	0		<	0.005		0.005	-
	0504	07/01/86	0001	AL	D		<	0.005		0.005	-
	0504	10/14/87	0001	AL	D		<	0.005		0.005	-
	0504	05/16/90	0001	AL	D			0.015		0.005	-
	0504	04/03/91	0001	AL	D		<	0.03	IJ	0.03	-
	0504	08/27/91	0001	AL	D		<	0.005		0.005	-
	0504	12/09/91	0001	AL	D		<	0.03	I	0.03	-
	0504	10/09/92	0001	AL	D		<	0.005		0.005	-
	0512	07/01/86	0001	AL	0		<	0.005		0.005	-
	0512	10/14/87	0001	AL	0		<	0.005		0.005	-
	0512	04/05/91	0001	AL	0		<	0.03	I	0.03	-
	0512	08/08/91	0001	AL	0		<	0.005		0.005	-
	0512	12/10/91	0001	AL	0		<	0.005		0.005	-
	0512	10/09/92	0001	AL	0		<	0.005		0.005	-
SILICA - SiO2	0503	06/30/86	0001	AL	0	MG/L		7.		2.	-
	0503	10/14/87	0001	AL	0			13.9		2.	-
	0503	02/22/88	0001	AL	0			13.4		2.	-
	0503	05/16/90	0001	AL	0			15.		2.	-
	0503	03/29/91	0001	AL	0			12.2		0.1	-
	0503	08/08/91	0001	AL	0			14.2		0.1	-
	0503	12/09/91	0001	AL	0			14.1		0.1	-
	0503	10/09/92	0001	AL	0			14.6		0.1	-
	0504	10/14/87	0001	AL	D			12.4		2.	-
	0504	02/22/88	0001	AL	D			13.9		2.	-
	0504	05/16/90	0001	AL	D			12.		2.	-
	0504	04/03/91	0001	AL	D			10.2	J	0.1	-
	0504	08/27/91	0001	AL	D			12.3		0.1	-
	0504	12/09/91	0001	AL	D			12.1		0.1	-
	0504	10/09/92	0001	AL	D			11.9		0.1	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
0 - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
J - ESTIMATED VALUE

20

79 J1
6/15/93

TABLE 3. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SILICA - S102	0512	10/14/87	0001	AL	O	MG/L	8.6		2.	-
	0512	02/22/88	0001	AL	O		8.7		2.	-
	0512	04/05/91	0001	AL	O		7.3		0.1	-
	0512	08/08/91	0001	AL	O		9.1		0.1	-
	0512	12/10/91	0001	AL	O		8.9		0.1	-
	0512	10/09/92	0001	AL	O		9.9		0.1	-
SILVER	0503	06/30/86	0001	AL	O	MG/L	< 0.01		0.01	-
	0503	10/14/87	0001	AL	O		< 0.01		0.01	-
	0503	05/16/90	0001	AL	O		< 0.01		0.01	-
	0503	03/29/91	0001	AL	O		< 0.01		0.01	-
	0503	08/08/91	0001	AL	O		< 0.01		0.01	-
	0503	12/09/91	0001	AL	O		< 0.01		0.01	-
	0504	10/14/87	0001	AL	D		< 0.01		0.01	-
	0504	05/16/90	0001	AL	D		< 0.01		0.01	-
	0504	04/03/91	0001	AL	D		< 0.01	J	0.01	-
	0504	08/27/91	0001	AL	D		< 0.01		0.01	-
	0504	12/09/91	0001	AL	D		< 0.01		0.01	-
	0512	10/14/87	0001	AL	O		< 0.01		0.01	-
	0512	04/05/91	0001	AL	O		< 0.01		0.01	-
	0512	08/08/91	0001	AL	O		< 0.01		0.01	-
	0512	12/10/91	0001	AL	O		< 0.01		0.01	-
SODIUM	0503	06/30/86	0001	AL	O	MG/L	637.		0.002	-
	0503	10/14/87	0001	AL	O		590.		0.002	-
	0503	02/22/88	0001	AL	O		555.		0.002	-
	0503	05/16/90	0001	AL	O		537.		0.002	-
	0503	03/29/91	0001	AL	O		541.		5.	-
	0503	08/08/91	0001	AL	O		584.		5.	-
	0503	12/09/91	0001	AL	O		536.		5.	-
	0503	10/09/92	0001	AL	O		552.		5.	-
	0504	07/01/86	0001	AL	D		774.		0.002	-
	0504	10/14/87	0001	AL	D		830.		0.002	-
	0504	02/22/88	0001	AL	D		736.		0.002	-
	0504	05/16/90	0001	AL	D		501.		0.002	-
	0504	04/03/91	0001	AL	D		480.	J	5.	-
	0504	08/27/91	0001	AL	D		478.		5.	-
	0504	12/09/91	0001	AL	D		416.		5.	-
	0504	10/09/92	0001	AL	D		351.		5.	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE

17

80 J
6/15/9.

TABLE 3. ON-SITE AND DOWNGRAIDENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SODIUM	0512	07/01/86	0001	AL	O	MG/L		135.		0.002	-
	0512	10/14/87	0001	AL	O			220.		0.002	-
	0512	02/22/88	0001	AL	O			137.		0.002	-
	0512	04/05/91	0001	AL	O			153.		5.	-
	0512	08/08/91	0001	AL	O			154.		5.	-
	0512	12/10/91	0001	AL	O			147.		5.	-
	0512	10/09/92	0001	AL	O			170.		5.	-
SPECIFIC CONDUCTANCE	0503	06/30/86	0001	AL	O	UMHO/CM		2650.		-	-
	0503	10/14/87	0001	AL	O			2850.		-	-
	0503	02/22/88	0001	AL	O			2875.		-	-
	0503	05/16/90	0001	AL	O			2656.		-	-
	0503	03/29/91	0001	AL	O			3840.		-	-
	0503	08/08/91	0001	AL	O			3760		-	-
	0503	12/05/91	0001	AL	O			3650		-	-
	0503	10/09/92	0001	AL	O			2740		-	-
	0504	07/01/86	0001	AL	D			3000.		-	-
	0504	10/14/87	0001	AL	D			2900.		-	-
	0504	02/22/88	0001	AL	D			3400.		-	-
	0504	05/16/90	0001	AL	D			2220.		-	-
	0504	08/27/91	0001	AL	D			2950		-	-
	0504	12/05/91	0001	AL	D			2780		-	-
	0504	10/09/92	0001	AL	D			2430		-	-
	0512	07/01/86	0001	AL	O			1050.		-	-
	0512	10/14/87	0001	AL	O			1600.		-	-
	0512	02/22/88	0001	AL	O			1200.		-	-
	0512	04/05/91	0001	AL	O			1670.		-	-
	0512	08/08/91	0001	AL	O			1677		-	-
	0512	12/05/91	0001	AL	O			1660		-	-
	0512	10/09/92	0001	AL	O			1190		-	-
STRONTIUM	0503	05/16/90	0001	AL	O	MG/L		2.46		0.1	-
	0503	03/29/91	0001	AL	O			2.37		0.01	-
	0503	08/08/91	0001	AL	O			2.42		0.01	-
	0503	12/09/91	0001	AL	O			2.29		0.01	-
	0503	10/09/92	0001	AL	O			2.15		0.01	-
	0504	05/16/90	0001	AL	D			2.31		0.1	-
	0504	04/03/91	0001	AL	D			2.11	J	0.01	-
	0504	08/27/91	0001	AL	D			2.44		0.01	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE

27

81 21
6/15/9

TABLE 3. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
STRONTIUM	0504	12/09/91	0001	AL	D	MG/L		1.90		0.01	-
	0504	10/09/92	0001	AL	D			1.59		0.01	-
	0512	04/05/91	0001	AL	O			1.38		0.01	-
	0512	08/08/91	0001	AL	O			1.41		0.01	-
	0512	12/10/91	0001	AL	O			1.18		0.01	-
	0512	10/09/92	0001	AL	O			1.89		0.01	-
SULFATE	0503	06/30/86	0001	AL	O	MG/L		1650.		0.1	-
	0503	10/14/87	0001	AL	O			1450.		0.1	-
	0503	02/22/88	0001	AL	O			1500.		0.1	-
	0503	05/16/90	0001	AL	O			1380.		0.1	-
	0503	03/29/91	0001	AL	O			1280.		10.	-
	0503	08/08/91	0001	AL	O			1160.		10.	-
	0503	12/09/91	0001	AL	O			1200.		10.	-
	0503	10/09/92	0001	AL	O			1100.		10.	-
	0504	07/01/86	0001	AL	D			2130.		0.1	-
	0504	10/14/87	0001	AL	D			2340.		0.1	-
	0504	02/22/88	0001	AL	D			2140.		0.1	-
	0504	05/16/90	0001	AL	D			1280.		0.1	-
	0504	04/03/91	0001	AL	D			1090.	J	10.	-
	0504	08/27/91	0001	AL	D			1020.		10.	-
	0504	12/09/91	0001	AL	D			942.		10.	-
	0504	10/09/92	0001	AL	D			744.		80.	-
	0512	07/01/86	0001	AL	O			653.		0.1	-
	0512	10/14/87	0001	AL	O			950.		0.1	-
	0512	02/22/88	0001	AL	O			620.		0.1	-
	0512	04/05/91	0001	AL	O			644.		10.	-
	0512	08/08/91	0001	AL	O			476.		0.1	-
	0512	12/10/91	0001	AL	O			770.		10.	-
	0512	10/09/92	0001	AL	O			774.		10.	-
SULFIDE	0503	06/30/86	0001	AL	O	MG/L	<	0.1		0.1	-
	0503	03/29/91	0001	AL	O			1.6		0.1	-
	0503	08/08/91	0001	AL	O			0.3		0.1	-
	0503	12/09/91	0001	AL	O		<	0.1		0.1	-
	0503	10/09/92	0001	AL	O		<	0.1		0.1	-
	0504	07/01/86	0001	AL	D		<	0.1		0.1	-
	0504	04/03/91	0001	AL	D			1.99	J	1.	-
	0504	08/27/91	0001	AL	D			0.8		0.1	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE

73

82 DJ
6/15/93

TABLE 3. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SULFIDE	0504	12/09/91	0001	AL	D	MG/L	0.1	0.1	-
	0504	10/09/92	0001	AL	D		< 0.1	0.1	-
	0512	07/01/86	0001	AL	O		< 0.1	0.1	-
	0512	04/05/91	0001	AL	O		32.9	0.1	-
	0512	08/08/91	0001	AL	O		1.1	0.2	-
	0512	12/10/91	0001	AL	O		0.3	0.1	-
	0512	10/09/92	0001	AL	O		0.2	0.1	-
TEMPERATURE	0503	06/30/86	0001	AL	O	C - DEGREE	15.	-	-
	0503	10/14/87	0001	AL	O		14.5	-	-
	0503	02/22/88	0001	AL	O		13.0	-	-
	0503	05/16/90	0001	AL	O		13.5	-	-
	0503	03/29/91	0001	AL	O		13.1	-	-
	0503	08/08/91	0001	AL	O		14.2	-	-
	0503	12/05/91	0001	AL	O		14.0	-	-
	0503	10/09/92	0001	AL	O		14.7	-	-
	0504	07/01/86	0001	AL	D		12.	-	-
	0504	10/14/87	0001	AL	D		13.0	-	-
	0504	02/22/88	0001	AL	D		11.0	-	-
	0504	05/16/90	0001	AL	D		12.2	-	-
	0504	08/27/91	0001	AL	D		14.0	-	-
	0504	12/05/91	0001	AL	D		12.7	-	-
	0504	10/09/92	0001	AL	D		15.2	-	-
	0512	07/01/86	0001	AL	O		11.5	-	-
	0512	10/14/87	0001	AL	O		14.0	-	-
	0512	02/22/88	0001	AL	O		10.5	-	-
	0512	04/05/91	0001	AL	O		10.5	-	-
	0512	08/08/91	0001	AL	O		12.2	-	-
	0512	12/05/91	0001	AL	O		12.3	-	-
	0512	10/09/92	0001	AL	O		13.6	-	-
THALLIUM	0503	05/16/90	0001	AL	O	MG/L	< 0.01	0.01	-
	0503	03/29/91	0001	AL	O		< 0.01	0.01	-
	0503	08/08/91	0001	AL	O		< 0.01	0.01	-
	0503	12/09/91	0001	AL	O		< 0.05 I	0.05	-
	0503	10/09/92	0001	AL	O		< 0.005	0.005	-
	0504	05/16/90	0001	AL	D		< 0.01	0.01	-
	0504	04/03/91	0001	AL	D		< 0.01 J	0.01	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
J - ESTIMATED VALUE

hZ

83 J.A.
6/15/93

TABLE 3. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
THALLIUM	0504	08/27/91	0001	AL	D	MG/L	<	0.05	I	0.05	-
	0504	12/09/91	0001	AL	D		<	0.01		0.01	-
	0504	10/09/92	0001	AL	D		<	0.005		0.005	-
	0512	04/05/91	0001	AL	O		<	0.01		0.01	-
	0512	08/08/91	0001	AL	O		<	0.01		0.01	-
	0512	12/10/91	0001	AL	O		<	0.01		0.01	-
	0512	10/09/92	0001	AL	O		<	0.005		0.005	-
THORIUM-230	0503	06/30/86	0001	AL	O	PCI/L		0.3	c	0.6	0.3
	0503	08/08/91	0001	AL	O			0.7		1.	0.5
	0503	12/05/91	0001	AL	O			0.3		1.	0.5
	0504	08/27/91	0001	AL	D			0.0		1.	0.3
	0504	12/05/91	0001	AL	D			0.4		1.	0.8
	0512	08/08/91	0001	AL	O			0.5		1.	0.5
	0512	12/05/91	0001	AL	O			0.1		1.	0.4
TIN	0503	06/30/86	0001	AL	O	MG/L	<	0.005		0.005	-
	0503	05/16/90	0001	AL	O			0.018		0.005	-
	0503	03/29/91	0001	AL	O		<	0.005		0.005	-
	0503	08/08/91	0001	AL	O		<	0.05	I	0.05	-
	0503	12/09/91	0001	AL	O		<	0.03	I	0.03	-
	0503	10/09/92	0001	AL	O		<	0.05	I	0.05	-
	0504	05/16/90	0001	AL	D			0.017		0.005	-
	0504	04/03/91	0001	AL	D		<	0.005	J	0.005	-
	0504	08/27/91	0001	AL	D		<	0.05	I	0.05	-
	0504	12/09/91	0001	AL	D		<	0.03	I	0.03	-
	0504	10/09/92	0001	AL	D		<	0.05	I	0.05	-
	0512	04/05/91	0001	AL	O		<	0.005		0.005	-
	0512	08/08/91	0001	AL	O		<	0.05	I	0.05	-
	0512	12/10/91	0001	AL	O		<	0.005		0.005	-
	0512	10/09/92	0001	AL	O		<	0.005		0.005	-
TOTAL DISSOLVED SOLIDS	0503	06/30/86	0001	AL	O	MG/L		3400.		10.	-
	0503	10/14/87	0001	AL	O			3130.		10.	-
	0503	02/22/88	0001	AL	O			3130.		10.	-
	0503	05/16/90	0001	AL	O			2770.		10.	-
	0503	03/29/91	0001	AL	O			2830.		10.	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
J - ESTIMATED VALUE
C - CHANGED DETECTION LIMIT

75

84 21
6/15/92

TABLE 3. ON-SITE AND DOWNGRAIDENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL DISSOLVED SOLIDS	0503	08/08/91	0001	AL	O	MG/L		1060.		10.	-
	0503	12/09/91	0001	AL	O			2640.		10.	-
	0503	10/09/92	0001	AL	O			2520.		10.	-
	0504	07/01/86	0001	AL	D			3950.		10.	-
	0504	10/14/87	0001	AL	D			4300.		10.	-
	0504	02/22/88	0001	AL	D			4080.		10.	-
	0504	05/16/90	0001	AL	D			2470.		10.	-
	0504	04/03/91	0001	AL	D			2350.	J	10.	-
	0504	08/27/91	0001	AL	D			2160.		10.	-
	0504	12/09/91	0001	AL	D			1970.		10.	-
	0504	10/09/92	0001	AL	D			1670.		10.	-
	0512	07/01/86	0001	AL	O			1310.		10.	-
	0512	10/14/87	0001	AL	O			1890.		10.	-
	0512	02/22/88	0001	AL	O			1260.		10.	-
	0512	04/05/91	0001	AL	O			1330.		10.	-
	0512	08/08/91	0001	AL	O			1250.		10.	-
	0512	12/10/91	0001	AL	O			1130.		10.	-
	0512	10/09/92	0001	AL	O			1580.		10.	-
TOTAL KJELDAHL NITROGEN	0503	03/29/91	0001	AL	O	MG/L	<	1.		1.	-
	0503	08/08/91	0001	AL	O			1.		1.	-
	0503	12/09/91	0001	AL	O		<	2.	I	2.	-
	0504	04/03/91	0001	AL	D			1.	J	1.	-
	0504	08/27/91	0001	AL	D			1.		1.	-
	0504	12/09/91	0001	AL	D		<	2.	I	2.	-
	0512	04/05/91	0001	AL	O		<	1.		1.	-
	0512	08/08/91	0001	AL	O			2.		1.	-
	0512	12/10/91	0001	AL	O			5.		2.	-
TOTAL ORGANIC CARBON	0503	03/29/91	0001	AL	O	MG/L		3.		1.	-
	0503	08/08/91	0001	AL	O			3.		1.	-
	0503	12/09/91	0001	AL	O			2.		1.	-
	0503	10/09/92	0001	AL	O			3.		1.	-
	0504	04/03/91	0001	AL	D			10.	J	1.	-
	0504	08/27/91	0001	AL	D			3.		1.	-
	0504	12/09/91	0001	AL	D			2.		1.	-
	0504	10/09/92	0001	AL	D			5.		1.	-
	0512	04/05/91	0001	AL	O			2.		1.	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
J - ESTIMATED VALUE

96

85 2,
6/15/93

TABLE 3. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL ORGANIC CARBON	0512	08/08/91	0001	AL	O	MG/L		9.		1.	-
	0512	12/10/91	0001	AL	O			2.		1.	-
	0512	10/09/92	0001	AL	O			4.		1.	-
TURBIDITY	0504	10/09/92	0001	AL	D	NTU		0.50		-	-
URANIUM	0503	06/30/86	0001	AL	O	MG/L		3.78		0.003	-
	0503	10/14/87	0001	AL	O			3.8		0.003	-
	0503	02/22/88	0001	AL	O			3.59		0.003	-
	0503	05/16/90	0001	AL	O			3.05		0.003	-
	0503	03/29/91	0001	AL	O			3.39		0.001	-
	0503	08/08/91	0001	AL	O			2.854		0.001	-
	0503	12/05/91	0001	AL	O			2.99		0.001	-
	0503	10/09/92	0001	AL	O			2.93		0.001	-
	0504	07/01/86	0001	AL	D			2.66		0.003	-
	0504	10/14/87	0001	AL	D			2.9		0.003	-
	0504	02/22/88	0001	AL	D			2.69		0.003	-
	0504	05/16/90	0001	AL	D			1.61		0.003	-
	0504	04/03/91	0001	AL	D			1.57	J	0.001	-
	0504	08/27/91	0001	AL	D			0.916		0.001	-
	0504	12/05/91	0001	AL	D			0.870		0.001	-
	0504	10/09/92	0001	AL	D			0.886		0.001	-
	0512	07/01/86	0001	AL	O			2.92		0.003	-
	0512	10/14/87	0001	AL	O			5.0		0.003	-
	0512	02/22/88	0001	AL	O			3.26		0.003	-
	0512	04/05/91	0001	AL	O			2.50		0.001	-
	0512	08/08/91	0001	AL	O			2.243		0.001	-
	0512	12/05/91	0001	AL	O			1.70		0.001	-
	0512	10/09/92	0001	AL	O			2.77		0.001	-
VANADIUM	0503	06/30/86	0001	AL	O	MG/L		0.53		0.01	-
	0503	10/14/87	0001	AL	O		<	0.01		0.01	-
	0503	05/16/90	0001	AL	O			0.03		0.01	-
	0503	03/29/91	0001	AL	O		<	0.01		0.01	-
	0503	08/08/91	0001	AL	O		<	0.01		0.01	-
	0503	12/09/91	0001	AL	O		<	0.1	I	0.1	-
	0503	10/09/92	0001	AL	O		<	0.05	I	0.05	-
	0504	07/01/86	0001	AL	D			0.33		0.01	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
O - ON-SITE
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
J - ESTIMATED VALUE

77

86 2.2
6/15/93

TABLE 3. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
VANADIUM	0504	10/14/87	0001	AL	D	MG/L	<	0.01		0.01	-
	0504	05/16/90	0001	AL	D			0.02		0.01	-
	0504	04/03/91	0001	AL	D		<	0.01	J	0.01	-
	0504	08/27/91	0001	AL	D		<	0.01		0.01	-
	0504	12/09/91	0001	AL	D		<	0.01		0.01	-
	0504	10/09/92	0001	AL	D		<	0.01		0.01	-
	0512	07/01/86	0001	AL	O			0.53		0.01	-
	0512	10/14/87	0001	AL	O		<	0.01		0.01	-
	0512	04/05/91	0001	AL	O		<	0.01		0.01	-
	0512	08/08/91	0001	AL	O		<	0.01		0.01	-
	0512	12/10/91	0001	AL	O		<	0.05	I	0.05	-
	0512	10/09/92	0001	AL	O		<	0.05	I	0.05	-
ZINC	0503	06/30/86	0001	AL	O	MG/L		0.028		0.005	-
	0503	10/14/87	0001	AL	O		<	0.005		0.005	-
	0503	05/16/90	0001	AL	O		<	0.005		0.005	-
	0503	03/29/91	0001	AL	O		<	0.005		0.005	-
	0503	08/08/91	0001	AL	O		<	0.005		0.005	-
	0503	12/09/91	0001	AL	O		<	0.005		0.005	-
	0503	10/09/92	0001	AL	O		<	0.005		0.005	-
	0504	10/14/87	0001	AL	D		<	0.005		0.005	-
	0504	05/16/90	0001	AL	D		<	0.005		0.005	-
	0504	04/03/91	0001	AL	D		<	0.005	J	0.005	-
	0504	08/27/91	0001	AL	D		<	0.005		0.005	-
	0504	12/09/91	0001	AL	D		<	0.005		0.005	-
	0504	10/09/92	0001	AL	D		<	0.005		0.005	-
	0512	10/14/87	0001	AL	O		<	0.005		0.005	-
	0512	04/05/91	0001	AL	O		<	0.005		0.005	-
	0512	08/08/91	0001	AL	O		<	0.005		0.005	-
	0512	12/10/91	0001	AL	O		<	0.005		0.005	-
	0512	10/09/92	0001	AL	O		<	0.005		0.005	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
J - ESTIMATED VALUE

DATA FILE NAME: M:\DART\SRK01\GW010035.DAT

78

87 J.
6/15/93

TABLE 4. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME				UNITS	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN						MINIMUM	MAXIMUM *		
ALKALINITY				MG/L CaCO ₃								
22	246.0000	945.0000	+ 413.0000		407.3636	147.9735	0.3632	0.0	327.9256	486.8016	NORMAL	
ALUMINUM				MG/L								
23	** 0.0500	0.4000	0.0500		NA	NA	NA	56.5	** 0.0500	0.2000	NONPARAMETRIC	2
AMMONIUM				MG/L								
21	** 0.1000	2.7000	0.1000		NA	NA	NA	33.3	** 0.1000	0.4000	NONPARAMETRIC	2
ANTIMONY				MG/L								
15	** 0.0030	0.0190	** 0.0030		NA	NA	NA	80.0	** 0.0030	0.0030	NONPARAMETRIC	2
ARSENIC				MG/L								
20	** 0.0050	0.0250	+ 0.0050		NA	NA	NA	100.0	0.0050	0.0050	NONPARAMETRIC	2
BARIUM				MG/L								
18	0.0100	0.0500	+ 0.0300		NA	NA	NA	33.3	0.0200	0.0500	NONPARAMETRIC	2
BERYLLIUM				MG/L								
11	** 0.0050	0.0050	** 0.0050		NA	NA	NA	100.0	** 0.0050	0.0050	NONPARAMETRIC	2
BORON				MG/L								
15	0.0500	0.6000	0.3400		0.2847	0.1590	0.5586	6.7	0.1769	0.3924	NORMAL	
BROMIDE				MG/L								
12	0.1000	1.0000	+ 0.3500		NA	NA	NA	33.3	0.2000	0.6000	NONPARAMETRIC	2
CADMIUM				MG/L								
18	** 0.0005	0.0005	+ 0.0005		NA	NA	NA	100.0	0.0005	0.0005	NONPARAMETRIC	2

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

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TABLE 4. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME				UNITS	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN						MINIMUM	MAXIMUM *		
CALCIUM				MG/L								
23	107.0000	295.0000	200.0000		201.0000	48.4646	0.2411	0.0	175.6552	226.3448	NORMAL	
CHLORIDE				MG/L								
23	65.0000	520.0000	296.0000		240.8696	133.5029	0.5543	0.0	171.0537	310.6855	NORMAL	
CHROMIUM				MG/L								
18	** 0.0100	0.0500	** 0.0100		NA	NA	NA	94.4	** 0.0100	** 0.0100	NONPARAMETRIC	2
COBALT				MG/L								
11	** 0.0300	** 0.0300	** 0.0300		NA	NA	NA	100.0	** 0.0300	** 0.0300	NONPARAMETRIC	2
COPPER				MG/L								
18	** 0.0100	0.0500	** 0.0100		NA	NA	NA	94.4	** 0.0100	0.0100	NONPARAMETRIC	2
CYANIDE				MG/L								
9	** 0.0100	0.0200	** 0.0100		NA	NA	NA	88.9	** 0.0100	0.0200	NONPARAMETRIC	2
DISSOLVED OXYGEN				MG/L								
3	0.1000	1.1000	0.1000		NA	NA	NA	0.0	NA	NA	UNKNOWN	1
FIELD FE (2+)				MG/L								
3	0.7500	3.5800	2.3400		NA	NA	NA	0.0	NA	NA	UNKNOWN	1
FIELD FE (TOTAL)				MG/L								
2	2.4200	85.0000	+ 43.7100		NA	NA	NA	0.0	NA	NA	UNKNOWN	1
FLUORIDE				MG/L								
21	** 0.1000	0.4000	0.2400		0.2219	0.1002	0.4517	4.8	0.1666	0.2772	NORMAL	

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+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

87 22.
6/15/93

TABLE 4. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME				UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN					MINIMUM	MAXIMUM *		
GROSS ALPHA				PCI/L								
12	641.0000	2299.0000	+ 1199.5000	1306.4417	569.3336	0.4358	0.0	859.7317	1753.1516		NORMAL	
GROSS BETA				PCI/L								
12	188.0000	984.0000	+ 516.5000	535.2500	257.8601	0.4818	0.0	332.9280	737.5720		NORMAL	
IRON				MG/L								
23	0.0700	8.8000	2.3900	2.8126	2.3208	0.8251	0.0	1.5989	4.0263		NORMAL	
LEAD				MG/L								
18	** 0.0030	0.0100	** 0.0030	NA	NA	NA	100.0	** 0.0030	0.0050		NONPARAMETRIC	2
LEAD-210				PCI/L								
7	33.0000	216.0000	105.0000	105.1429	65.9866	0.6276	0.0	26.7546	183.5311		NORMAL	
MAGNESIUM				MG/L								
23	36.8000	200.0000	87.8000	92.6739	45.2930	0.4887	0.0	68.9878	116.3601		NORMAL	
MANGANESE				MG/L								
23	0.0900	0.8600	0.4500	0.4683	0.1890	0.4035	0.0	0.3694	0.5671		NORMAL	
MERCURY				MG/L								
15	** 0.0002	** 0.0002	** 0.0002	NA	NA	NA	100.0	** 0.0002	** 0.0002		NONPARAMETRIC	2
MOLYBDENUM				MG/L								
23	** 0.0100	0.1700	0.0200	NA	NA	NA	39.1	** 0.0100	0.0400		NONPARAMETRIC	2
NET GROSS ALPHA ***				PCI/L								
12	-622.7000	139.9200	+ -81.6900	NA	NA	NA	0.0	-493.0000	123.8600		NONPARAMETRIC	9

*** NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

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TABLE 4. ON-SITE AND DOWNGRAIDENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE ALLUVIUM, MC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME					UNITS	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	MINIMUM				MAXIMUM *			
NICKEL					MG/L							
21	0.0200	0.0700	0.0200	NA	NA	NA	85.7	0.0200	0.0200	NONPARAMETRIC	2	
NITRATE					MG/L							
23	** 0.7000	6.5000	** 0.7000	NA	NA	NA	73.9	** 0.7000	0.7000	NONPARAMETRIC	2	
NITRITE AND NITRATE					MG/L							
11	0.1100	1.2900	0.4000	NA	NA	NA	36.4	0.1300	0.5000	NONPARAMETRIC	2	
PH					SU							
22	6.8500	7.2300	+ 7.0599	NA	NA	NA	0.0	NA	NA	UNKNOWN		
PHOSPHATE					MG/L							
18	** 0.1000	0.3000	** 0.1000	NA	NA	NA	61.1	** 0.1000	0.1000	NONPARAMETRIC	2	
POLONIUM-210					PCI/L							
7	** 1.0000	** 1.0000	** 1.0000	NA	NA	NA	0.0	** 1.0000	** 1.0000	NONPARAMETRIC	9	
POTASSIUM					MG/L							
23	8.1100	49.1000	13.1000	21.3157	13.9657	0.6552	0.0	14.0122	28.6191	NORMAL		
RADIUM-226					PCI/L							
18	** 0.1000	2.4000	+ 0.3000	NA	NA	NA	5.6	0.1000	0.7000	NONPARAMETRIC	9	
RADIUM-226 + RADIUM-228					PCI/L							
15	0.6000	6.5000	1.1000	2.3133	2.0389	0.8814	0.0	0.9320	3.6947	NORMAL		
RADIUM-228					PCI/L							
15	** 1.0000	6.1000	** 1.0000	NA	NA	NA	0.0	** 1.0000	4.7000	NONPARAMETRIC	9	

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+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

82

91 22
6/15/93

TABLE 4. ON-SITE AND DOWNGRAIDENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME				UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN					MINIMUM	MAXIMUM *		
REDOX POTENTIAL				mVOLTS								
3	77.8000	455.3000	252.8000	NA		NA	NA	0.0	NA	NA	UNKNOWN	1
SELENIUM				MG/L								
20	** 0.0050	0.0150	** 0.0050	NA		NA	NA	90.0	** 0.0050	0.0150	NONPARAMETRIC	2
SILICA - SiO2				MG/L								
21	7.0000	15.0000	12.1000	11.5095		2.4966	0.2169	0.0	10.1323	12.8868	NORMAL	
SILVER				MG/L								
15	** 0.0100	** 0.0100	** 0.0100	NA		NA	NA	100.0	** 0.0100	** 0.0100	NONPARAMETRIC	2
SODIUM				MG/L								
23	135.0000	830.0000	501.0000	444.0870		219.3936	0.4940	0.0	329.3542	558.8197	NORMAL	
SPECIFIC CONDUCTANCE				UMHO/CM								
22	1050.0000	3840.0000	+ 2698.0000	2488.5455		846.4211	0.3401	0.0	2034.1532	2942.9377	NORMAL	
STRONTIUM				MG/L								
14	1.1800	2.4600	+ 2.1300	1.9929		0.4410	0.2213	0.0	1.6806	2.3052	NORMAL	
SULFATE				MG/L								
23	476.0000	2340.0000	1100.0000	1186.6522		507.7848	0.4279	0.0	921.1040	1452.2003	NORMAL	
SULFIDE				MG/L								
15	** 0.1000	32.9000	0.2000	NA		NA	NA	40.0	** 0.1000	1.6000	NONPARAMETRIC	2
TEMPERATURE				C - DEGREE								
22	10.5000	15.2000	+ 13.0500	13.0318		1.3909	0.1067	0.0	12.2851	13.7785	NORMAL	

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+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

8
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72 J.D.A.
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84

TABLE 4. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME		UNITS		MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN					MINIMUM	MAXIMUM		
THALLIUM				Mg/L							
14	**	0.0050	0.0250 +	0.0050	NA	NA	100.0	**	0.0050	NONPARAMETRIC	2
THORIUM-230				PCI/L							
7	**	0.6000	0.7000 **	0.6000	NA	NA	0.0	**	0.6000	NONPARAMETRIC	9
TIN				Mg/L							
15	**	0.0050	0.0250	0.0150	NA	NA	86.7	**	0.0050	NONPARAMETRIC	2
TOTAL DISSOLVED SOLIDS				Mg/L							
23		1060.0000	4300.0000	2350.0000	984.6126	0.4180	0.0		1840.7449 2870.5594	NORMAL	
TOTAL KJELDAHL NITROGEN				Mg/L							
9	**	1.0000	5.0000	1.0000	NA	NA	44.4	**	1.0000	NONPARAMETRIC	2
TOTAL ORGANIC CARBON				Mg/L							
12		2.0000	10.0000 +	3.0000	2.7303	0.6826	0.0		1.8578 6.1422	NORMAL	
TURBIDITY				NTU							
1		0.5000	0.5000	0.5000	NA	NA	0.0		NA NA	UNKNOWN	1
URANIUM				Mg/L							
23		0.8700	5.0000	2.8540	1.0246	0.3871	0.0		2.1111 3.1828	NORMAL	
VANADIUM				Mg/L							
20	**	0.0100	0.5300 **	0.0100	NA	NA	75.0	**	0.0100	NONPARAMETRIC	2
ZINC				Mg/L							
18	**	0.0050	0.0280 **	0.0050	NA	NA	94.4	**	0.0050 **	NONPARAMETRIC	2

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 + The sample size is even, so the median value is the arithmetic average of the two middle values
 * The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$
 1) A minimum of 4 samples must be available for the statistical analysis.
 2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.
 9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

93 21
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TABLE 4. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE ALLUVIUM, NC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/09/92
REPORT DATE: 05/07/93

PARAMETER NAME				UNITS							
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
								MINIMUM	MAXIMUM *		

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

INPUT DATA FILENAME: H:\DART\SRK01\GWQ10035.DAT

94 21.
6/15/93

TABLE 5. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	0554	12/12/90	0001	JE	U	MG/L CaCO3		574.		-	-
	0554	03/28/91	0001	JE	U			550.		-	-
	0554	08/05/91	0001	JE	U			524		-	-
	0554	12/05/91	0001	JE	U			552		-	-
	0554	10/15/92	0001	JE	U			623		-	-
	0702	03/29/89	0001	JE	O			156.		-	-
	0702	12/12/90	0001	JE	O			174.		-	-
	0702	03/31/91	0001	JE	O			169.		-	-
	0702	08/07/91	0001	JE	O			178		-	-
	0702	12/05/91	0001	JE	O			160		-	-
	0702	10/11/92	0001	JE	O			149		-	-
	0704	03/29/89	0001	JE	O			186.		-	-
	0704	12/12/90	0001	JE	O			202.		-	-
	0704	04/01/91	0001	JE	O			203.		-	-
	0704	08/24/91	0001	JE	O			187		-	-
	0704	12/05/91	0001	JE	O			200		-	-
	0704	10/12/92	0001	JE	O			223		-	-
ALUMINUM	0554	12/12/90	0001	JE	U	MG/L	<	0.1		0.1	-
	0554	03/28/91	0001	JE	U		<	0.05		0.05	-
	0554	08/05/91	0001	JE	U		<	0.05		0.05	-
	0554	12/06/91	0001	JE	U		<	0.05		0.05	-
	0554	10/15/92	0001	JE	U		<	0.05		0.05	-
	0702	03/29/89	0001	JE	O		<	0.05		0.1	-
	0702	12/12/90	0001	JE	O		<	0.1		0.1	-
	0702	03/31/91	0001	JE	O		<	0.05		0.05	-
	0702	08/07/91	0001	JE	O		<	0.05		0.05	-
	0702	12/07/91	0001	JE	O		<	0.05		0.05	-
	0702	10/11/92	0001	JE	O		<	0.05		0.05	-
	0704	03/29/89	0001	JE	O		<	0.05		0.1	-
	0704	12/12/90	0001	JE	O		<	0.1		0.1	-
	0704	04/01/91	0001	JE	O		<	0.05		0.05	-
	0704	08/24/91	0001	JE	O		<	0.05		0.05	-
	0704	12/12/91	0001	JE	O		<	0.05		0.05	-
	0704	10/12/92	0001	JE	O		<	0.05		0.05	-
AMMONIUM	0554	12/12/90	0001	JE	U	MG/L	<	0.1		0.1	-
	0554	03/28/91	0001	JE	U			0.3		0.1	-
	0554	08/05/91	0001	JE	U			0.2		0.1	-
	0554	12/06/91	0001	JE	U			0.1		0.1	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
U - UPGRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

96

95 J.R.
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TABLE 5. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
AMMONIUM	0554	10/15/92	0001	JE	U	MG/L		0.4		0.1	-
	0702	03/29/89	0001	JE	O			0.04	c	0.04	-
	0702	12/12/90	0001	JE	O		<	0.1		0.1	-
	0702	03/31/91	0001	JE	O		<	0.1		0.1	-
	0702	08/07/91	0001	JE	O		<	0.1		0.1	-
	0702	12/07/91	0001	JE	O			0.2		0.1	-
	0702	10/11/92	0001	JE	O			0.1		0.1	-
	0704	03/29/89	0001	JE	O			0.05	c	0.05	-
	0704	12/12/90	0001	JE	O		<	0.1		0.1	-
	0704	04/01/91	0001	JE	O		<	0.1		0.1	-
	0704	08/24/91	0001	JE	O		<	0.1		0.1	-
	0704	12/12/91	0001	JE	O			0.2		0.1	-
	0704	10/12/92	0001	JE	O			0.6		0.1	-
ANTIMONY	0554	12/12/90	0001	JE	U	MG/L	<	0.003		0.003	-
	0554	03/28/91	0001	JE	U		<	0.003		0.003	-
	0554	08/05/91	0001	JE	U		<	0.003		0.003	-
	0554	12/06/91	0001	JE	U		<	0.003		0.003	-
	0554	10/15/92	0001	JE	U		<	0.003		0.003	-
	0702	03/29/89	0001	JE	O		<	0.001		0.003	-
	0702	12/12/90	0001	JE	O		<	0.003		0.003	-
	0702	03/31/91	0001	JE	O			0.006		0.003	-
	0702	08/07/91	0001	JE	O		<	0.003		0.003	-
	0702	12/07/91	0001	JE	O		<	0.003		0.003	-
	0702	10/11/92	0001	JE	O			0.004		0.003	-
	0704	03/29/89	0001	JE	O		<	0.001		0.003	-
	0704	12/12/90	0001	JE	O		<	0.003		0.003	-
	0704	04/01/91	0001	JE	O		<	0.003		0.003	-
	0704	08/24/91	0001	JE	O		<	0.003		0.003	-
	0704	12/12/91	0001	JE	O		<	0.003		0.003	-
	0704	10/12/92	0001	JE	O			0.003		0.003	-
ARSENIC	0554	12/12/90	0001	JE	U	MG/L	<	0.01		0.01	-
	0554	03/28/91	0001	JE	U			0.01		0.01	-
	0554	08/05/91	0001	JE	U		<	0.01		0.01	-
	0554	12/06/91	0001	JE	U		<	0.01		0.01	-
	0554	10/15/92	0001	JE	U			0.006		0.005	-
	0702	03/29/89	0001	JE	O			0.001	c	0.001	-
	0702	12/12/90	0001	JE	O		<	0.01		0.01	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
U - UPGRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

96 2.
6/15/9

TABLE 5. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ARSENIC	0702	03/31/91	0001	JE	O	MG/L	< 0.01		0.01	-
	0702	08/07/91	0001	JE	O		< 0.01		0.01	-
	0702	12/07/91	0001	JE	O		< 0.01		0.01	-
	0702	10/11/92	0001	JE	O		< 0.005		0.005	-
	0704	03/29/89	0001	JE	O		0.001	c	0.001	-
	0704	12/12/90	0001	JE	O		< 0.01		0.01	-
	0704	04/01/91	0001	JE	O		< 0.01		0.01	-
	0704	08/24/91	0001	JE	O		< 0.01		0.01	-
	0704	12/12/91	0001	JE	O		< 0.01		0.01	-
	0704	10/12/92	0001	JE	O		< 0.005		0.005	-
BARIUM	0554	12/12/90	0001	JE	U	MG/L	0.5		0.1	-
	0554	03/28/91	0001	JE	U		0.42		0.01	-
	0554	08/05/91	0001	JE	U		0.42		0.01	-
	0554	12/06/91	0001	JE	U		0.48		0.01	-
	0554	10/15/92	0001	JE	U		1.34		0.01	-
	0702	03/29/89	0001	JE	O		0.38		0.1	-
	0702	12/12/90	0001	JE	O		< 0.1		0.1	-
	0702	03/31/91	0001	JE	O		0.05		0.01	-
	0702	08/07/91	0001	JE	O		0.05		0.01	-
	0702	12/07/91	0001	JE	O		0.05		0.01	-
	0702	10/11/92	0001	JE	O		0.15		0.01	-
	0704	03/29/89	0001	JE	O		0.12		0.1	-
	0704	12/12/90	0001	JE	O		< 0.1		0.1	-
	0704	04/01/91	0001	JE	O		0.07		0.01	-
	0704	08/24/91	0001	JE	O		0.09		0.01	-
	0704	12/12/91	0001	JE	O		0.07		0.01	-
	0704	10/12/92	0001	JE	O		0.08		0.01	-
BERYLLIUM	0554	12/12/90	0001	JE	U	MG/L	< 0.01		0.01	-
	0554	03/28/91	0001	JE	U		< 0.005		0.005	-
	0554	08/05/91	0001	JE	U		< 0.005		0.005	-
	0554	12/06/91	0001	JE	U		< 0.005		0.005	-
	0702	03/29/89	0001	JE	O		< 0.005		0.005	-
	0702	12/12/90	0001	JE	O		< 0.01		0.01	-
	0702	03/31/91	0001	JE	O		< 0.005		0.005	-
	0702	08/07/91	0001	JE	O		< 0.005		0.005	-
	0702	12/07/91	0001	JE	O		< 0.005		0.005	-
	0704	03/29/89	0001	JE	O		< 0.005		0.005	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
O - ON-SITE
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

28

97 2.6
6/15/93

TABLE 5. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BERYLLIUM	0704	12/12/90	0001	JE	O	MG/L	<	0.01		0.01	-
	0704	04/01/91	0001	JE	O		<	0.005		0.005	-
	0704	08/24/91	0001	JE	O		<	0.005		0.005	-
	0704	12/12/91	0001	JE	O		<	0.005		0.005	-
BORON	0554	12/12/90	0001	JE	U	MG/L		0.4		0.1	-
	0554	03/28/91	0001	JE	U			0.29		0.05	-
	0554	08/05/91	0001	JE	U			0.31		0.05	-
	0554	12/06/91	0001	JE	U			0.28		0.05	-
	0702	12/12/90	0001	JE	O		<	0.1		0.1	-
	0702	03/31/91	0001	JE	O		<	0.05		0.05	-
	0702	08/07/91	0001	JE	O		<	0.05		0.05	-
	0702	12/07/91	0001	JE	O		<	0.05		0.05	-
	0704	12/12/90	0001	JE	O		<	0.1		0.1	-
	0704	04/01/91	0001	JE	O			0.06		0.05	-
	0704	08/24/91	0001	JE	O			0.10		0.05	-
	0704	12/12/91	0001	JE	O			0.12		0.05	-
BROMIDE	0554	12/12/90	0001	JE	U	MG/L		3.8		0.01	-
	0554	03/28/91	0001	JE	U			3.4		0.1	-
	0554	08/05/91	0001	JE	U			2.9		1.5	-
	0554	12/06/91	0001	JE	U			3.3		0.8	-
	0554	10/15/92	0001	JE	U		<	10.	I	10.	-
	0702	12/12/90	0001	JE	O			0.1		0.01	-
	0702	03/31/91	0001	JE	O			0.9		0.1	-
	0702	08/07/91	0001	JE	O		<	0.3	I	0.3	-
	0702	12/07/91	0001	JE	O			0.3		0.1	-
	0702	10/11/92	0001	JE	O		<	0.5	I	0.5	-
	0704	12/12/90	0001	JE	O		<	0.1	c	0.1	-
	0704	04/01/91	0001	JE	O			0.3		0.1	-
	0704	08/24/91	0001	JE	O		<	0.1		0.1	-
	0704	12/12/91	0001	JE	O			0.3		0.1	-
	0704	10/12/92	0001	JE	O		<	0.2	I	0.2	-
CADMIUM	0554	12/12/90	0001	JE	U	MG/L	<	0.001		0.001	-
	0554	03/28/91	0001	JE	U		<	0.001		0.001	-
	0554	08/05/91	0001	JE	U		<	0.001		0.001	-
	0554	12/06/91	0001	JE	U		<	0.001		0.001	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
O - ON-SITE
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
c - CHANGED DETECTION LIMIT

89

98 20.
6/15/93

TABLE 5. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CADMIUM	0554	10/15/92	0001	JE	U	MG/L	<	0.005	I	0.005	-
	0702	03/29/89	0001	JE	O			0.0002	c	0.0002	-
	0702	12/12/90	0001	JE	O		<	0.001		0.001	-
	0702	03/31/91	0001	JE	O		<	0.001		0.001	-
	0702	08/07/91	0001	JE	O		<	0.001		0.001	-
	0702	12/07/91	0001	JE	O		<	0.001		0.001	-
	0702	10/11/92	0001	JE	O		<	0.005	I	0.005	-
	0704	03/29/89	0001	JE	O			0.0004	c	0.0004	-
	0704	12/12/90	0001	JE	O		<	0.001		0.001	-
	0704	04/01/91	0001	JE	O		<	0.001		0.001	-
	0704	08/24/91	0001	JE	O		<	0.001		0.001	-
	0704	12/12/91	0001	JE	O		<	0.001		0.001	-
	0704	10/12/92	0001	JE	O		<	0.005	I	0.005	-
CALCIUM	0554	12/12/90	0001	JE	U	MG/L		138.		0.01	-
	0554	03/28/91	0001	JE	U			134.		0.5	-
	0554	08/05/91	0001	JE	U			140.		0.5	-
	0554	12/06/91	0001	JE	U			125.		0.5	-
	0554	10/15/92	0001	JE	U			203.		0.5	-
	0702	03/29/89	0001	JE	O			72.		0.01	-
	0702	12/12/90	0001	JE	O			65.2		0.01	-
	0702	03/31/91	0001	JE	O			50.5		0.5	-
	0702	08/07/91	0001	JE	O			57.8		0.5	-
	0702	12/07/91	0001	JE	O			40.9		0.5	-
	0702	10/11/92	0001	JE	O			66.5		0.5	-
	0704	03/29/89	0001	JE	O			54.		0.01	-
	0704	12/12/90	0001	JE	O			51.0		0.01	-
	0704	04/01/91	0001	JE	O			51.2		0.5	-
	0704	08/24/91	0001	JE	O			52.2		0.5	-
	0704	12/12/91	0001	JE	O			53.1		0.5	-
	0704	10/12/92	0001	JE	O			46.7		0.5	-
CHLORIDE	0554	12/12/90	0001	JE	U	MG/L		741.		1.	-
	0554	03/28/91	0001	JE	U			582.		0.5	-
	0554	08/05/91	0001	JE	U			592.		1.	-
	0554	12/06/91	0001	JE	U			660.		1.	-
	0554	10/15/92	0001	JE	U			1180.		10.	-
	0702	03/29/89	0001	JE	O			340.		1.	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
U - UPGRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
c - CHANGED DETECTION LIMIT

20

99 JD
6/15/93

TABLE 5. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM FLOW COMP REL.	UNITS OF MEASURE	PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CHLORIDE	0702	12/12/90	0001	JE	0	MG/L		1.	-
	0702	03/31/91	0001	JE	0			0.5	-
	0702	08/07/91	0001	JE	0			1.	-
	0702	12/07/91	0001	JE	0			1.	-
	0702	10/11/92	0001	JE	0			1.	-
	0704	03/29/89	0001	JE	0			1.	-
	0704	12/12/90	0001	JE	0			1.	-
	0704	04/01/91	0001	JE	0			0.5	-
	0704	08/24/91	0001	JE	0			1.	-
	0704	12/12/91	0001	JE	0			1.	-
	0704	10/12/92	0001	JE	0			1.	-
	0554	12/12/90	0001	JE	U	MG/L		0.01	-
	0554	03/28/91	0001	JE	U			0.01	-
CHROMIUM	0554	08/05/91	0001	JE	U			0.01	-
	0554	12/06/91	0001	JE	U			0.01	-
	0554	10/15/92	0001	JE	U			0.01	-
	0702	03/29/89	0001	JE	0			0.01	-
	0702	12/12/90	0001	JE	0			0.01	-
	0702	03/31/91	0001	JE	0			0.01	-
	0702	08/07/91	0001	JE	0			0.01	-
	0702	12/07/91	0001	JE	0			0.01	-
	0702	10/11/92	0001	JE	0			0.01	-
	0704	03/29/89	0001	JE	0			0.01	-
	0704	12/12/90	0001	JE	0			0.01	-
	0704	04/01/91	0001	JE	0			0.01	-
	0704	08/24/91	0001	JE	0			0.01	-
COBALT	0704	12/12/91	0001	JE	0			0.01	-
	0704	10/12/92	0001	JE	0			0.01	-
	0554	12/12/90	0001	JE	U	MG/L		0.05	-
	0554	03/28/91	0001	JE	U			0.03	-
	0554	08/05/91	0001	JE	U			0.03	-
	0554	12/06/91	0001	JE	U			0.03	-
	0702	03/29/89	0001	JE	0			0.05	-
	0702	12/12/90	0001	JE	0			0.05	-
	0702	03/31/91	0001	JE	0			0.03	-
	0702	08/07/91	0001	JE	0			0.03	-
	0702	12/07/91	0001	JE	0			0.03	-
	0704	03/29/89	0001	JE	0			0.05	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
O - ON-SITE
U - UPGRADE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (<.45 MICRONS)

100 2.1
6/15/93

TABLE 5. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
COBALT	0704	12/12/90	0001	JE	O	MG/L	<	0.05		0.05	-
	0704	04/01/91	0001	JE	O		<	0.03		0.03	-
	0704	08/24/91	0001	JE	O		<	0.03		0.03	-
	0704	12/12/91	0001	JE	O		<	0.03		0.03	-
COPPER	0554	12/12/90	0001	JE	U	MG/L	<	0.02		0.02	-
	0554	03/28/91	0001	JE	U		<	0.01		0.01	-
	0554	08/05/91	0001	JE	U		<	0.01		0.01	-
	0554	12/06/91	0001	JE	U		<	0.01		0.01	-
	0554	10/15/92	0001	JE	U		<	0.01		0.01	-
	0702	03/29/89	0001	JE	O		<	0.01		0.02	-
	0702	12/12/90	0001	JE	O		<	0.02		0.02	-
	0702	03/31/91	0001	JE	O		<	0.01		0.01	-
	0702	08/07/91	0001	JE	O		<	0.01		0.01	-
	0702	12/07/91	0001	JE	O		<	0.01		0.01	-
	0702	10/11/92	0001	JE	O		<	0.01		0.01	-
	0704	03/29/89	0001	JE	O		<	0.01		0.02	-
	0704	12/12/90	0001	JE	O		<	0.02		0.02	-
	0704	04/01/91	0001	JE	O		<	0.01		0.01	-
	0704	08/24/91	0001	JE	O		<	0.01		0.01	-
	0704	12/12/91	0001	JE	O		<	0.01		0.01	-
	0704	10/12/92	0001	JE	O		<	0.01		0.01	-
CYANIDE	0554	12/12/90	0001	JE	U	MG/L	<	0.01		0.01	-
	0554	03/28/91	0001	JE	U		<	0.01		0.01	-
	0554	08/05/91	0001	JE	U		<	0.01		0.01	-
	0554	12/06/91	0001	JE	U		<	0.01		0.01	-
	0702	03/29/89	0001	JE	O			0.007	c	0.007	-
	0702	12/12/90	0001	JE	O		<	0.01		0.01	-
	0702	03/31/91	0001	JE	O		<	0.01		0.01	-
	0702	08/07/91	0001	JE	O		<	0.01		0.01	-
	0702	12/07/91	0001	JE	O		<	0.01		0.01	-
	0704	03/29/89	0001	JE	O		<	0.002		0.01	-
	0704	12/12/90	0001	JE	O		<	0.01		0.01	-
	0704	04/01/91	0001	JE	O		<	0.01		0.01	-
	0704	08/24/91	0001	JE	O		<	0.01		0.01	-
	0704	12/12/91	0001	JE	O		<	0.01		0.01	-
DISSOLVED OXYGEN	0554	10/15/92	0001	JE	U	MG/L		0.0		-	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
O - ON-SITE
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

26

101 J.D.
6/15/93

TABLE 5. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI	VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
DISSOLVED OXYGEN	0702	10/11/92	0001	JE	O	MG/L		9.6		-	-
	0704	10/12/92	0001	JE	O	MG/L		5.0		-	-
FIELD FE (2+)	0554	10/15/92	0001	JE	U	MG/L		1.84		-	-
FIELD FE (TOTAL)	0554	10/15/92	0001	JE	U	MG/L		1.98		-	-
FLUORIDE	0554	12/12/90	0001	JE	U	MG/L		0.3		0.1	-
	0554	03/28/91	0001	JE	U		<	0.1		0.1	-
	0554	08/05/91	0001	JE	U			0.2		0.1	-
	0554	12/06/91	0001	JE	U			0.1		0.1	-
	0554	10/15/92	0001	JE	U			0.2		0.1	-
	0702	03/29/89	0001	JE	O			0.3		0.1	-
	0702	12/12/90	0001	JE	O			0.2		0.1	-
	0702	03/31/91	0001	JE	O			0.2		0.1	-
	0702	08/07/91	0001	JE	O			0.2		0.1	-
	0702	12/07/91	0001	JE	O			0.2		0.1	-
	0702	10/11/92	0001	JE	O			0.2		0.1	-
	0704	03/29/89	0001	JE	O			0.4		0.1	-
	0704	12/12/90	0001	JE	O			0.4		0.1	-
	0704	04/01/91	0001	JE	O			0.2		0.1	-
	0704	08/24/91	0001	JE	O			0.3		0.1	-
	0704	12/12/91	0001	JE	O			0.3		0.1	-
	0704	10/12/92	0001	JE	O			0.3		0.1	-
GROSS ALPHA	0554	12/12/90	0001	JE	U	PCI/L	<	24.	b	1.	24.
	0554	03/28/91	0001	JE	U			21.7		1.	31.8
	0554	08/05/91	0001	JE	U			0.0		1.	23.1
	0554	12/05/91	0001	JE	U			0.0		1.	51.2
	0554	10/15/92	0001	JE	U			0.0	N	39.2	21.9
	0702	12/12/90	0001	JE	O			15.		1.	9.
	0702	03/31/91	0001	JE	O			3.1		1.	4.4
	0702	08/07/91	0001	JE	O			6.6		1.	7.5
	0702	12/05/91	0001	JE	O			0.0		1.	6.9
	0702	10/11/92	0001	JE	O			0.0	N	11.4	6.7
	0704	12/12/90	0001	JE	O			7.8		1.	4.3
	0704	04/01/91	0001	JE	O			8.2		1.	5.0
	0704	08/24/91	0001	JE	O			8.3		1.	4.5

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
O - ON-SITE
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS
b - CHANGED PARAMETER VALUE

93

102 D.D.
6/15/93

TABLE 5. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
GROSS ALPHA	0704	12/05/91	0001	JE	O	PCI/L		0.0		1.	7.7
	0704	10/12/92	0001	JE	O			3.8	N	7.9	5.2
GROSS BETA	0554	12/12/90	0001	JE	U	PCI/L		43.		0.5	17.
	0554	03/28/91	0001	JE	U			21.3		0.5	21.6
	0554	08/05/91	0001	JE	U			5.7		0.5	15.0
	0554	12/05/91	0001	JE	U			0.0		0.5	34.4
	0554	10/15/92	0001	JE	U			6.7	*N	36.8	22.2
	0702	03/29/89	0001	JE	O			34.5		0.5	11.2
	0702	12/12/90	0001	JE	O			8.6		0.5	4.2
	0702	03/31/91	0001	JE	O			4.6		0.5	4.2
	0702	08/07/91	0001	JE	O			10.5		0.5	5.7
	0702	12/05/91	0001	JE	O			0.0		0.5	5.4
	0702	10/11/92	0001	JE	O			9.3	*N	10.0	6.4
	0704	03/29/89	0001	JE	O			16.1		0.5	5.20
	0704	12/12/90	0001	JE	O			6.2		0.5	2.2
	0704	04/01/91	0001	JE	O			8.3		0.5	2.8
	0704	08/24/91	0001	JE	O			11.1		0.5	3.2
	0704	12/05/91	0001	JE	O			0.0		0.5	4.9
	0704	10/12/92	0001	JE	O			5.3	*N	7.0	4.4
IRON	0554	12/12/90	0001	JE	U	MG/L		0.73		0.03	-
	0554	03/28/91	0001	JE	U			0.61		0.03	-
	0554	08/05/91	0001	JE	U			0.75		0.03	-
	0554	12/06/91	0001	JE	U			0.91		0.03	-
	0554	10/15/92	0001	JE	U			2.33		0.03	-
	0702	03/29/89	0001	JE	O		<	0.02		0.03	-
	0702	12/12/90	0001	JE	O		<	0.03		0.03	-
	0702	03/31/91	0001	JE	O		<	0.03		0.03	-
	0702	08/07/91	0001	JE	O		<	0.03		0.03	-
	0702	12/07/91	0001	JE	O		<	0.03		0.03	-
	0702	10/11/92	0001	JE	O		<	0.04		0.03	-
	0704	03/29/89	0001	JE	O		<	0.02		0.03	-
	0704	12/12/90	0001	JE	O		<	0.03		0.03	-
	0704	04/01/91	0001	JE	O		<	0.03		0.03	-
	0704	08/24/91	0001	JE	O		<	0.03		0.03	-
	0704	12/12/91	0001	JE	O		<	0.03		0.03	-
	0704	10/12/92	0001	JE	O		<	0.03		0.03	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
O - ON-SITE
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
* - DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS
N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS

94

103 J.D.
6/15/93

TABLE 5. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
LEAD	0554	12/12/90	0001	JE	U	MG/L	<	0.01		0.01	-
	0554	03/28/91	0001	JE	U		<	0.005		0.005	-
	0554	08/05/91	0001	JE	U		<	0.005		0.005	-
	0554	12/06/91	0001	JE	U		<	0.005		0.005	-
	0554	10/15/92	0001	JE	U		<	0.003		0.003	-
	0702	03/29/89	0001	JE	0		<	0.001		0.01	-
	0702	12/12/90	0001	JE	0		<	0.01		0.01	-
	0702	03/31/91	0001	JE	0		<	0.005		0.005	-
	0702	08/07/91	0001	JE	0		<	0.005		0.005	-
	0702	12/07/91	0001	JE	0		<	0.005		0.005	-
	0702	10/11/92	0001	JE	0		<	0.02	I	0.02	-
	0704	03/29/89	0001	JE	0		<	0.001		0.01	-
	0704	12/12/90	0001	JE	0		<	0.01		0.01	-
	0704	04/01/91	0001	JE	0		<	0.005		0.005	-
	0704	08/24/91	0001	JE	0		<	0.005		0.005	-
	0704	12/12/91	0001	JE	0		<	0.005		0.005	-
	0704	10/12/92	0001	JE	0		<	0.02	I	0.02	-
LEAD-210	0554	08/05/91	0001	JE	U	PCI/L		0.2		1.5	0.8
	0554	12/05/91	0001	JE	U			0.0		1.5	0.8
	0702	08/07/91	0001	JE	0			1.4		1.5	0.9
	0702	12/05/91	0001	JE	0			0.0		1.5	0.8
	0704	08/24/91	0001	JE	0			0.4		1.5	1.0
MAGNESIUM	0704	12/05/91	0001	JE	0			0.0		1.5	0.9
	0554	12/12/90	0001	JE	U	MG/L		202.		0.001	-
	0554	03/28/91	0001	JE	U			193.		0.5	-
	0554	08/05/91	0001	JE	U			198.		0.5	-
	0554	12/06/91	0001	JE	U			181.		0.5	-
	0554	10/15/92	0001	JE	U			297.		0.5	-
	0702	03/29/89	0001	JE	0			84.		0.001	-
	0702	12/12/90	0001	JE	0			105.		0.001	-
	0702	03/31/91	0001	JE	0			86.0		0.5	-
	0702	08/07/91	0001	JE	0			94.4		0.5	-
	0702	12/07/91	0001	JE	0			64.8		0.5	-
	0702	10/11/92	0001	JE	0			108.		0.5	-
	0704	03/29/89	0001	JE	0			42.		0.001	-
	0704	12/12/90	0001	JE	0			44.3		0.001	-
	0704	04/01/91	0001	JE	0			45.4		0.1	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
U - UPGRADIENT
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (<.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

104 J.O.
6/15/93

TABLE 5. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MAGNESIUM	0704	08/24/91	0001	JE	O	MG/L		47.5		0.1	-
	0704	12/12/91	0001	JE	O			44.1		0.1	-
	0704	10/12/92	0001	JE	O			39.5		0.1	-
MANGANESE	0554	12/12/90	0001	JE	U	MG/L		0.71		0.01	-
	0554	03/28/91	0001	JE	U			0.62		0.01	-
	0554	08/05/91	0001	JE	U			0.62		0.01	-
	0554	12/06/91	0001	JE	U			0.55		0.01	-
	0554	10/15/92	0001	JE	U			0.85		0.01	-
	0702	03/29/89	0001	JE	O			0.05		0.01	-
	0702	12/12/90	0001	JE	O			0.02		0.01	-
	0702	03/31/91	0001	JE	O			0.01		0.01	-
	0702	08/07/91	0001	JE	O		<	0.01		0.01	-
	0702	12/07/91	0001	JE	O		<	0.01		0.01	-
	0702	10/11/92	0001	JE	O			0.02		0.01	-
	0704	03/29/89	0001	JE	O			0.05		0.01	-
	0704	12/12/90	0001	JE	O		<	0.01		0.01	-
	0704	04/01/91	0001	JE	O		<	0.01		0.01	-
	0704	08/24/91	0001	JE	O		<	0.01		0.01	-
	0704	12/12/91	0001	JE	O		<	0.01		0.01	-
	0704	10/12/92	0001	JE	O		<	0.01		0.01	-
MERCURY	0554	12/12/90	0001	JE	U	MG/L	<	0.0002		0.0002	-
	0554	03/28/91	0001	JE	U		<	0.0002		0.0002	-
	0554	08/05/91	0001	JE	U		<	0.0002		0.0002	-
	0554	12/06/91	0001	JE	U		<	0.0002		0.0002	-
	0702	03/29/89	0001	JE	O		<	0.0001		0.0002	-
	0702	12/12/90	0001	JE	O		<	0.0002		0.0002	-
	0702	03/31/91	0001	JE	O		<	0.0002		0.0002	-
	0702	08/07/91	0001	JE	O		<	0.0002		0.0002	-
	0702	12/07/91	0001	JE	O		<	0.0002		0.0002	-
	0704	03/29/89	0001	JE	O		<	0.0001		0.0002	-
	0704	12/12/90	0001	JE	O		<	0.0002		0.0002	-
	0704	04/01/91	0001	JE	O		<	0.0002		0.0002	-
	0704	08/24/91	0001	JE	O		<	0.0002		0.0002	-
	0704	12/12/91	0001	JE	O		<	0.0002		0.0002	-
MOLYBDENUM	0554	12/12/90	0001	JE	U	MG/L		0.06		0.01	-
	0554	03/28/91	0001	JE	U		<	0.01		0.01	-
	0554	08/05/91	0001	JE	U		<	0.01		0.01	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
O - ON-SITE
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

105 D.D.
6/15/93

TABLE 5. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MOLYBDENUM	0554	12/06/91	0001	JE	U	MG/L	< 0.01		0.01	-
	0554	10/15/92	0001	JE	U		< 0.01		0.01	-
	0702	03/29/89	0001	JE	O		0.017		0.01	-
	0702	12/12/90	0001	JE	O		0.04		0.01	-
	0702	03/31/91	0001	JE	O		< 0.01		0.01	-
	0702	08/07/91	0001	JE	O		< 0.01		0.01	-
	0702	12/07/91	0001	JE	O		< 0.01		0.01	-
	0702	10/11/92	0001	JE	O		< 0.01		0.01	-
	0704	03/29/89	0001	JE	O		0.003	c	0.003	-
	0704	12/12/90	0001	JE	O		0.02		0.01	-
	0704	04/01/91	0001	JE	O		< 0.01		0.01	-
	0704	08/24/91	0001	JE	O		< 0.01		0.01	-
	0704	12/12/91	0001	JE	O		< 0.01		0.01	-
	0704	10/12/92	0001	JE	O		< 0.01		0.01	-
NET GROSS ALPHA *	0554	12/12/90	0001	JE	U	PCI/L	-0.67		-	-
	0554	03/28/91	0001	JE	U		21.01		-	-
	0554	08/05/91	0001	JE	U		-0.34		-	-
	0554	12/05/91	0001	JE	U		-1.37		-	-
	0554	10/15/92	0001	JE	U		-0.34		-	-
	0702	12/12/90	0001	JE	O		2.79		-	-
	0702	03/31/91	0001	JE	O		0.36		-	-
	0702	08/07/91	0001	JE	O		-0.26		-	-
	0702	12/05/91	0001	JE	O		-2.74		-	-
	0702	10/11/92	0001	JE	O		-10.29		-	-
	0704	12/12/90	0001	JE	O		5.88		-	-
	0704	04/01/91	0001	JE	O		7.51		-	-
	0704	08/24/91	0001	JE	O		7.61		-	-
	0704	12/05/91	0001	JE	O		-2.74		-	-
	0704	10/12/92	0001	JE	O		1.74		-	-
NICKEL	0554	12/12/90	0001	JE	U	MG/L	< 0.04		0.04	-
	0554	03/28/91	0001	JE	U		< 0.04		0.04	-
	0554	08/05/91	0001	JE	U		< 0.04		0.04	-
	0554	12/06/91	0001	JE	U		< 0.04		0.04	-
	0554	10/15/92	0001	JE	U		< 0.04		0.04	-
	0702	03/29/89	0001	JE	O		< 0.02		0.04	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
U - UPGRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

72

106 J.O.
6/15/93

TABLE 5. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NICKEL	0702	12/12/90	0001	JE	0	MG/L	<	0.04		0.04	-
	0702	03/31/91	0001	JE	0		<	0.04		0.04	-
	0702	08/07/91	0001	JE	0		<	0.04		0.04	-
	0702	12/07/91	0001	JE	0		<	0.04		0.04	-
	0702	10/11/92	0001	JE	0		<	0.04		0.04	-
	0704	03/29/89	0001	JE	0		<	0.02		0.04	-
	0704	12/12/90	0001	JE	0		<	0.04		0.04	-
	0704	04/01/91	0001	JE	0		<	0.04		0.04	-
	0704	08/24/91	0001	JE	0		<	0.04		0.04	-
	0704	12/12/91	0001	JE	0		<	0.04		0.04	-
	0704	10/12/92	0001	JE	0		<	0.04		0.04	-
NITRATE	0554	12/12/90	0001	JE	U	MG/L	<	1.		1.	-
	0554	03/28/91	0001	JE	U			2.9		1.	-
	0554	08/05/91	0001	JE	U		<	1.0		1.	-
	0554	12/06/91	0001	JE	U		<	1.0		1.	-
	0554	10/15/92	0001	JE	U			1.9		0.1	-
	0702	03/29/89	0001	JE	0			85.6		1.	-
	0702	12/12/90	0001	JE	0			126.		1.	-
	0702	03/31/91	0001	JE	0			66.		1.	-
	0702	08/07/91	0001	JE	0			79.2		1.	-
	0702	12/07/91	0001	JE	0			46.0		7.	-
	0702	10/11/92	0001	JE	0			105.		10.	-
	0704	03/29/89	0001	JE	0			10.8		1.	-
	0704	12/12/90	0001	JE	0			11.		1.	-
	0704	04/01/91	0001	JE	0			10.2		1.	-
	0704	08/24/91	0001	JE	0			12.5		1.	-
	0704	12/12/91	0001	JE	0			8.0		1.	-
	0704	10/12/92	0001	JE	0			7.8		1.0	-
NITRITE AND NITRATE	0554	03/28/91	0001	JE	U	MG/L		0.66		0.05	-
	0554	08/05/91	0001	JE	U			0.23		0.05	-
	0702	03/31/91	0001	JE	0			15.0		0.05	-
	0702	08/07/91	0001	JE	0			17.9		0.05	-
	0704	04/01/91	0001	JE	0			2.31		0.05	-
	0704	08/24/91	0001	JE	0			2.82		0.05	-
PH	0554	12/12/90	0001	JE	U	SU		6.98		-	-
	0554	03/28/91	0001	JE	U			7.06		-	-
	0554	08/05/91	0001	JE	U			6.93		-	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
0 - ON-SITE
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

78

107 DJ
6/15/93

TABLE 5. ON-SITE AND DOWNGRAIDENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PH	0554	12/05/91	0001	JE	U	SU	7.09		-	-
	0554	10/15/92	0001	JE	U		6.96		-	-
	0702	03/29/89	0001	JE	O		7.97		-	-
	0702	12/12/90	0001	JE	O		7.79		-	-
	0702	03/31/91	0001	JE	O		7.71		-	-
	0702	08/07/91	0001	JE	O		7.83		-	-
	0702	12/05/91	0001	JE	O		7.79		-	-
	0702	10/11/92	0001	JE	O		7.90		-	-
	0704	03/29/89	0001	JE	O		7.74		-	-
	0704	12/12/90	0001	JE	O		7.51		-	-
	0704	04/01/91	0001	JE	O		7.79		-	-
	0704	08/24/91	0001	JE	O		7.63		-	-
	0704	12/05/91	0001	JE	O		7.84		-	-
	0704	10/12/92	0001	JE	O		7.76		-	-
PHOSPHATE	0554	12/12/90	0001	JE	U	MG/L	< 0.1		0.1	-
	0554	03/28/91	0001	JE	U		0.2		0.1	-
	0554	08/05/91	0001	JE	U		0.2		0.1	-
	0554	12/06/91	0001	JE	U		0.2		0.01	-
	0554	10/15/92	0001	JE	U		0.1	J	0.1	-
	0702	03/29/89	0001	JE	O		< 0.1		0.1	-
	0702	12/12/90	0001	JE	O		< 0.1		0.1	-
	0702	03/31/91	0001	JE	O		< 0.1		0.1	-
	0702	08/07/91	0001	JE	O		0.1		0.1	-
	0702	12/07/91	0001	JE	O		0.1		0.1	-
	0702	10/11/92	0001	JE	O		1.2	J	0.1	-
	0704	03/29/89	0001	JE	O		< 0.1		0.1	-
	0704	12/12/90	0001	JE	O		< 0.1		0.1	-
	0704	04/01/91	0001	JE	O		< 0.1		0.1	-
	0704	08/24/91	0001	JE	O		< 0.1		0.1	-
	0704	12/12/91	0001	JE	O		0.4		0.1	-
	0704	10/12/92	0001	JE	O		0.3	J	0.1	-
POLONIUM-210	0554	08/05/91	0001	JE	U	PCI/L	0.2		1.	0.5
	0554	12/05/91	0001	JE	U		0.0		1.	0.2
	0702	08/07/91	0001	JE	O		0.3		1.	0.4
	0702	12/05/91	0001	JE	O		0.3		1.	0.6
	0704	08/24/91	0001	JE	O		1.4		1.	0.9
	0704	12/05/91	0001	JE	O		0.1		1.	0.3

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
U - UPGRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE

bb

108 220.
6/15/93

TABLE 5. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
POTASSIUM	0554	12/12/90	0001	JE	U	MG/L		9.8		0.01	-
	0554	03/28/91	0001	JE	U			8.1		0.01	-
	0554	08/05/91	0001	JE	U			8.7		0.01	-
	0554	12/06/91	0001	JE	U			8.08		0.01	-
	0554	10/15/92	0001	JE	U			9.64		0.01	-
	0702	03/29/89	0001	JE	O			10.5		0.01	-
	0702	12/12/90	0001	JE	O			4.9		0.01	-
	0702	03/31/91	0001	JE	O			2.9		0.01	-
	0702	08/07/91	0001	JE	O			3.3		0.01	-
	0702	12/07/91	0001	JE	O			2.34		0.01	-
	0702	10/11/92	0001	JE	O			3.89		0.01	-
	0704	03/29/89	0001	JE	O			8.0		0.01	-
	0704	12/12/90	0001	JE	O			7.9		0.01	-
	0704	04/01/91	0001	JE	O			5.8		0.01	-
	0704	08/24/91	0001	JE	O			7.6		0.01	-
	0704	12/12/91	0001	JE	O			8.39		0.01	-
	0704	10/12/92	0001	JE	O			6.70		0.01	-
RADIUM-226	0554	12/12/90	0001	JE	U	PCI/L		0.6	c	0.9	0.3
	0554	03/28/91	0001	JE	U			0.6		1.	0.3
	0554	08/05/91	0001	JE	U			0.5		1.	0.3
	0554	12/05/91	0001	JE	U			1.0		1.	0.5
	0554	10/15/92	0001	JE	U			1.0		0.8	0.6
	0702	12/12/90	0001	JE	O			0.3	c	0.5	0.2
	0702	03/31/91	0001	JE	O			0.3		1.	0.2
	0702	08/07/91	0001	JE	O			0.4		1.	0.2
	0702	12/05/91	0001	JE	O			0.3		1.	0.3
	0702	10/11/92	0001	JE	O			0.8		0.8	0.6
	0704	12/12/90	0001	JE	O			0.2	c	0.5	0.3
	0704	04/01/91	0001	JE	O			0.2		1.	0.2
	0704	08/24/91	0001	JE	O			0.5		1.	0.3
	0704	12/05/91	0001	JE	O			0.7		1.	0.4
	0704	10/12/92	0001	JE	O			0.5		0.8	0.5
RADIUM-226 + RADIUM-228	0554	12/12/90	0001	JE	U	PCI/L		2.10		-	-
	0554	03/28/91	0001	JE	U			1.10		-	-
	0554	08/05/91	0001	JE	U			0.50		-	-
	0554	12/05/91	0001	JE	U			2.50		-	-
	0554	10/15/92	0001	JE	U			1.10		-	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
U - UPGRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

100

108 22
6/15/93

TABLE 5. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
RADIUM-226 + RADIUM-228	0702	12/12/90	0001	JE	O	PCI/L		2.10		-	-
	0702	03/31/91	0001	JE	O			3.80		-	-
	0702	08/07/91	0001	JE	O			1.10		-	-
	0702	12/05/91	0001	JE	O			0.30		-	-
	0702	10/11/92	0001	JE	O			2.60		-	-
	0704	12/12/90	0001	JE	O			1.40		-	-
	0704	04/01/91	0001	JE	O			1.60		-	-
	0704	08/24/91	0001	JE	O			0.50		-	-
	0704	12/05/91	0001	JE	O			0.80		-	-
	0704	10/12/92	0001	JE	O			0.60		-	-
RADIUM-228	0554	12/12/90	0001	JE	U	PCI/L		1.5		1.	0.9
	0554	03/28/91	0001	JE	U			0.5		1.	1.4
	0554	08/05/91	0001	JE	U			0.0		1.	1.5
	0554	12/05/91	0001	JE	U			1.5		1.	1.2
	0554	10/15/92	0001	JE	U			0.1	N	2.6	1.5
	0702	12/12/90	0001	JE	O			1.8		1.	0.9
	0702	03/31/91	0001	JE	O			3.5		1.	1.3
	0702	08/07/91	0001	JE	O			0.7		1.	1.7
	0702	12/05/91	0001	JE	O			0.0		1.	0.9
	0702	10/11/92	0001	JE	O			1.8		2.4	1.6
	0704	12/12/90	0001	JE	O			1.2		1.	1.0
	0704	04/01/91	0001	JE	O			1.4		1.	1.1
	0704	08/24/91	0001	JE	O			0.0		1.	2.1
	0704	12/05/91	0001	JE	O			0.1		1.	0.8
	0704	10/12/92	0001	JE	O			0.1		2.7	1.6
REDOX POTENTIAL	0554	12/12/90	0001	JE	U	mVOLTS		80.5		-	-
	0554	10/15/92	0001	JE	U			81.8		-	-
	0702	12/12/90	0001	JE	O			412.5		-	-
	0702	10/11/92	0001	JE	O			409.5		-	-
	0704	12/12/90	0001	JE	O			431.7		-	-
	0704	10/12/92	0001	JE	O			436.5		-	-
SELENIUM	0554	12/12/90	0001	JE	U	MG/L	<	0.005		0.005	-
	0554	03/28/91	0001	JE	U			0.04		0.03	-
	0554	08/05/91	0001	JE	U		<	0.005		0.005	-
	0554	12/06/91	0001	JE	U		<	0.005		0.005	-
	0554	10/15/92	0001	JE	U		<	0.005		0.005	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
O - ON-SITE
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS

110 J.A.
6/15/93

TABLE 5. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SELENIUM	0702	03/29/89	0001	JE	O	MG/L		0.023		0.005	-
	0702	12/12/90	0001	JE	O			0.042		0.005	-
	0702	03/31/91	0001	JE	O			0.020		0.005	-
	0702	08/07/91	0001	JE	O		<	0.05	I	0.05	-
	0702	12/07/91	0001	JE	O			0.026		0.005	-
	0702	10/11/92	0001	JE	O			0.007		0.005	-
	0704	03/29/89	0001	JE	O			0.012		0.005	-
	0704	12/12/90	0001	JE	O			0.017		0.005	-
	0704	04/01/91	0001	JE	O			0.010		0.005	-
	0704	08/24/91	0001	JE	O			0.017		0.005	-
	0704	12/12/91	0001	JE	O			0.026		0.005	-
	0704	10/12/92	0001	JE	O			0.006		0.005	-
SILICA - SiO2	0554	12/12/90	0001	JE	U	MG/L		16.		2.	-
	0554	03/28/91	0001	JE	U			14.0		0.1	-
	0554	08/05/91	0001	JE	U			15.3		0.1	-
	0554	12/06/91	0001	JE	U			13.4		0.1	-
	0554	10/15/92	0001	JE	U			15.9		0.1	-
	0702	03/29/89	0001	JE	O			10.9		2.	-
	0702	12/12/90	0001	JE	O			11.		2.	-
	0702	03/31/91	0001	JE	O			9.8		0.1	-
	0702	08/07/91	0001	JE	O			10.1		0.1	-
	0702	12/07/91	0001	JE	O			10.2		0.1	-
	0702	10/11/92	0001	JE	O			8.1		0.1	-
	0704	03/29/89	0001	JE	O			11.3		2.	-
	0704	12/12/90	0001	JE	O			10.		2.	-
	0704	04/01/91	0001	JE	O			9.8		0.1	-
	0704	08/24/91	0001	JE	O			10.4		0.1	-
	0704	12/12/91	0001	JE	O			10.5		0.1	-
	0704	10/12/92	0001	JE	O			10.7		0.1	-
SILVER	0554	12/12/90	0001	JE	U	MG/L	<	0.01		0.01	-
	0554	03/28/91	0001	JE	U		<	0.01		0.01	-
	0554	08/05/91	0001	JE	U		<	0.01		0.01	-
	0554	12/06/91	0001	JE	U		<	0.01		0.01	-
	0702	03/29/89	0001	JE	O		<	0.01		0.01	-
	0702	12/12/90	0001	JE	O		<	0.01		0.01	-
	0702	03/31/91	0001	JE	O		<	0.01		0.01	-
	0702	08/07/91	0001	JE	O		<	0.01		0.01	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
O - ON-SITE
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

102

TABLE 5. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SILVER	0702	12/07/91	0001	JE	O	MG/L	<	0.01		0.01	-
	0704	03/29/89	0001	JE	O		<	0.01		0.01	-
	0704	12/12/90	0001	JE	O		<	0.01		0.01	-
	0704	04/01/91	0001	JE	O		<	0.01		0.01	-
	0704	08/24/91	0001	JE	O		<	0.01		0.01	-
	0704	12/12/91	0001	JE	O		<	0.01		0.01	-
SODIUM	0554	12/12/90	0001	JE	U	MG/L		191.		0.002	-
	0554	03/28/91	0001	JE	U			167.		5.	-
	0554	08/05/91	0001	JE	U			166.		2.	-
	0554	12/06/91	0001	JE	U			158.		5.	-
	0554	10/15/92	0001	JE	U			258.		5.	-
	0702	03/29/89	0001	JE	O			280.		0.002	-
	0702	12/12/90	0001	JE	O			71.1		0.002	-
	0702	03/31/91	0001	JE	O			30.		5.	-
	0702	08/07/91	0001	JE	O			32.		1.	-
	0702	12/07/91	0001	JE	O			20.		1.	-
	0702	10/11/92	0001	JE	O			10.		1.	-
	0704	03/29/89	0001	JE	O			24.		0.002	-
	0704	12/12/90	0001	JE	O			30.2		0.002	-
	0704	04/01/91	0001	JE	O			29.		5.	-
	0704	08/24/91	0001	JE	O			27.		1.	-
	0704	12/12/91	0001	JE	O			24.		1.	-
	0704	10/12/92	0001	JE	O			39.		1.	-
SPECIFIC CONDUCTANCE	0554	12/12/90	0001	JE	U	UMHO/CM		3230.		-	-
	0554	08/05/91	0001	JE	U			2780		-	-
	0554	12/05/91	0001	JE	U			2960		-	-
	0554	10/15/92	0001	JE	U			3340		-	-
	0702	03/29/89	0001	JE	O			1550.		-	-
	0702	12/12/90	0001	JE	O			685.		-	-
	0702	08/07/91	0001	JE	O			1085		-	-
	0702	12/05/91	0001	JE	O			1130		-	-
	0702	10/11/92	0001	JE	O			945		-	-
	0704	03/29/89	0001	JE	O			400.		-	-
	0704	12/12/90	0001	JE	O			823.		-	-
	0704	08/24/91	0001	JE	O			716		-	-
	0704	12/05/91	0001	JE	O			710		-	-
	0704	10/12/92	0001	JE	O			568		-	-
STRONTIUM	0554	12/12/90	0001	JE	U	MG/L		3.1		0.1	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
O - ON-SITE
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

112 20
6/15/93

TABLE 5. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
STRONTIUM	0554	03/28/91	0001	JE	U	MG/L		2.78		0.01	-
	0554	08/05/91	0001	JE	U			2.72		0.01	-
	0554	12/06/91	0001	JE	U			2.68		0.01	-
	0554	10/15/92	0001	JE	U			4.36		0.01	-
	0702	12/12/90	0001	JE	O			0.9		0.1	-
	0702	03/31/91	0001	JE	O			0.58		0.01	-
	0702	08/07/91	0001	JE	O			0.61		0.01	-
	0702	12/07/91	0001	JE	O			0.45		0.01	-
	0702	10/11/92	0001	JE	O			0.84		0.01	-
	0704	12/12/90	0001	JE	O			1.1		0.1	-
	0704	04/01/91	0001	JE	O			0.82		0.01	-
	0704	08/24/91	0001	JE	O			1.11		0.01	-
	0704	12/12/91	0001	JE	O			1.04		0.01	-
	0704	10/12/92	0001	JE	O			0.84		0.01	-
SULFATE	0554	12/12/90	0001	JE	U	MG/L		102.		0.1	-
	0554	03/28/91	0001	JE	U			39.		10.	-
	0554	08/05/91	0001	JE	U			90.		0.1	-
	0554	12/06/91	0001	JE	U			127.		10.	-
	0554	10/15/92	0001	JE	U			47.		1.	-
	0702	03/29/89	0001	JE	O			436.		0.1	-
	0702	12/12/90	0001	JE	O			380.		0.1	-
	0702	03/31/91	0001	JE	O			203.		0.1	-
	0702	08/07/91	0001	JE	O			291.		0.1	-
	0702	12/07/91	0001	JE	O			141.		20.	-
	0702	10/11/92	0001	JE	O			302.		4.	-
	0704	03/29/89	0001	JE	O			144.		0.1	-
	0704	12/12/90	0001	JE	O			135.		0.1	-
	0704	04/01/91	0001	JE	O			131.		0.1	-
	0704	08/24/91	0001	JE	O			132.		10.	-
	0704	12/12/91	0001	JE	O			127.		20.	-
	0704	10/12/92	0001	JE	O			109.		20.	-
SULFIDE	0554	03/28/91	0001	JE	U	MG/L		16.3		0.1	-
	0554	08/05/91	0001	JE	U			9.8		0.1	-
	0554	12/06/91	0001	JE	U			6.2		0.1	-
	0554	10/15/92	0001	JE	U			0.6		0.1	-
	0702	03/31/91	0001	JE	O			12.8		0.1	-
	0702	08/07/91	0001	JE	O			0.3		0.1	-
	0702	12/07/91	0001	JE	O			0.1		0.1	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
U - UPGRADIENT
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

104

113 21
6/15/93

TABLE 5. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SULFIDE	0702	10/11/92	0001	JE	O	MG/L		0.2		0.1	-
	0704	04/01/91	0001	JE	O			42.3		0.1	-
	0704	08/24/91	0001	JE	O			0.6		0.1	-
	0704	12/12/91	0001	JE	O			0.5		0.1	-
	0704	10/12/92	0001	JE	O			0.1		0.1	-
TEMPERATURE	0554	12/12/90	0001	JE	U	C - DEGREE		13.6		-	-
	0554	03/28/91	0001	JE	U			13.6		-	-
	0554	08/05/91	0001	JE	U			14.2		-	-
	0554	12/05/91	0001	JE	U			13.9		-	-
	0554	10/15/92	0001	JE	U			14.7		-	-
	0702	03/29/89	0001	JE	O			14.0		-	-
	0702	12/12/90	0001	JE	O			13.4		-	-
	0702	03/31/91	0001	JE	O			13.9		-	-
	0702	08/07/91	0001	JE	O			14.7		-	-
	0702	12/05/91	0001	JE	O			13.5		-	-
	0702	10/11/92	0001	JE	O			15.1		-	-
	0704	03/29/89	0001	JE	O			13.5		-	-
	0704	12/12/90	0001	JE	O			13.1		-	-
	0704	04/01/91	0001	JE	O			13.5		-	-
	0704	08/24/91	0001	JE	O			14.0		-	-
	0704	12/05/91	0001	JE	O			11.9		-	-
	0704	10/12/92	0001	JE	O			15.2		-	-
THALLIUM	0554	12/12/90	0001	JE	U	MG/L		< 0.01		0.01	-
	0554	03/28/91	0001	JE	U			< 0.01		0.01	-
	0554	08/05/91	0001	JE	U			< 0.1	I	0.1	-
	0554	12/06/91	0001	JE	U			< 0.05	I	0.05	-
	0554	10/15/92	0001	JE	U			< 0.005		0.005	-
	0702	03/29/89	0001	JE	O			< 0.001		0.001	-
	0702	12/12/90	0001	JE	O			< 0.01		0.01	-
	0702	03/31/91	0001	JE	O			< 0.01		0.01	-
	0702	08/07/91	0001	JE	O			< 0.01		0.01	-
	0702	12/07/91	0001	JE	O			< 0.01		0.01	-
	0702	10/11/92	0001	JE	O			< 0.005		0.005	-
	0704	03/29/89	0001	JE	O			< 0.001		0.001	-
	0704	12/12/90	0001	JE	O			< 0.01		0.01	-
	0704	04/01/91	0001	JE	O			< 0.01		0.01	-
	0704	08/24/91	0001	JE	O			< 0.01		0.01	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
O - ON-SITE
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

105

114 2.2
6/15/93

TABLE 5. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
THALLIUM	0704	12/12/91	0001	JE	O	MG/L	<	0.01		0.01	-
	0704	10/12/92	0001	JE	O		<	0.005		0.005	-
THORIUM-230	0554	08/05/91	0001	JE	U	PCI/L		0.1		1.	0.5
	0554	12/05/91	0001	JE	U			0.1		1.	0.5
	0702	08/07/91	0001	JE	O			0.5		1.	0.4
	0702	12/05/91	0001	JE	O			0.2		1.	0.4
	0704	08/24/91	0001	JE	O			0.3		1.	0.5
	0704	12/05/91	0001	JE	O			0.3		1.	0.5
TIN	0554	12/12/90	0001	JE	U	MG/L	<	0.005		0.005	-
	0554	03/28/91	0001	JE	U		<	0.005		0.005	-
	0554	08/05/91	0001	JE	U		<	0.05	I	0.05	-
	0554	12/06/91	0001	JE	U		<	0.005		0.005	-
	0554	10/15/92	0001	JE	U		<	0.05	I	0.05	-
	0702	03/29/89	0001	JE	O		<	0.001		0.005	-
	0702	12/12/90	0001	JE	O		<	0.005		0.005	-
	0702	03/31/91	0001	JE	O		<	0.005		0.005	-
	0702	08/07/91	0001	JE	O		<	0.05	I	0.05	-
	0702	12/07/91	0001	JE	O		<	0.005		0.005	-
	0702	10/11/92	0001	JE	O		<	0.05	I	0.05	-
	0704	03/29/89	0001	JE	O		<	0.001		0.005	-
	0704	12/12/90	0001	JE	O		<	0.005		0.005	-
	0704	04/01/91	0001	JE	O		<	0.005		0.005	-
	0704	08/24/91	0001	JE	O		<	0.005		0.005	-
	0704	12/12/91	0001	JE	O		<	0.005		0.005	-
	0704	10/12/92	0001	JE	O		<	0.005		0.005	-
TOTAL DISSOLVED SOLIDS	0554	12/12/90	0001	JE	U	MG/L		1980.		10.	-
	0554	03/28/91	0001	JE	U			1740.		10.	-
	0554	08/05/91	0001	JE	U			1880.		10.	-
	0554	12/06/91	0001	JE	U			1740.		10.	-
	0554	10/15/92	0001	JE	U			2650.		10.	-
	0702	03/29/89	0001	JE	O			1432.		10.	-
	0702	12/12/90	0001	JE	O			960.		10.	-
	0702	03/31/91	0001	JE	O			607.		10.	-
	0702	08/07/91	0001	JE	O			724.		10.	-
	0702	12/07/91	0001	JE	O			478.		10.	-
	0702	10/11/92	0001	JE	O			794.		10.	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
O - ON-SITE
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

106

115 2.2.
6/15/93

TABLE 5. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL DISSOLVED SOLIDS	0704	03/29/89	0001	JE	O	MG/L	428.		10.	-
	0704	12/12/90	0001	JE	O		412.		10.	-
	0704	04/01/91	0001	JE	O		445.		10.	-
	0704	08/24/91	0001	JE	O		435.		10.	-
	0704	12/12/91	0001	JE	O		425.		10.	-
	0704	10/12/92	0001	JE	O		443.		10.	-
TOTAL KJELDAHL NITROGEN	0554	03/28/91	0001	JE	U	MG/L	1.		1.	-
	0554	08/05/91	0001	JE	U		1.		1.	-
	0554	12/06/91	0001	JE	U		< 2.	I	2.	-
	0702	03/31/91	0001	JE	O		< 1.		1.	-
	0702	08/07/91	0001	JE	O		< 1.		1.	-
	0702	12/07/91	0001	JE	O		< 2.	I	2.	-
	0704	04/01/91	0001	JE	O		< 1.		1.	-
	0704	08/24/91	0001	JE	O		1.		1.	-
	0704	12/12/91	0001	JE	O		< 2.	I	2.	-
TOTAL ORGANIC CARBON	0554	03/28/91	0001	JE	U	MG/L	14.		1.	-
	0554	08/05/91	0001	JE	U		18.		1.	-
	0554	12/06/91	0001	JE	U		20.		1.	-
	0554	10/15/92	0001	JE	U		74.	J	1.	-
	0702	03/31/91	0001	JE	O		< 1.		1.	-
	0702	08/07/91	0001	JE	O		1.		1.	-
	0702	12/07/91	0001	JE	O		1.		1.	-
	0702	10/11/92	0001	JE	O		3.		1.	-
	0704	04/01/91	0001	JE	O		1.		1.	-
	0704	08/24/91	0001	JE	O		2.		1.	-
	0704	12/12/91	0001	JE	O		2.		1.	-
	0704	10/12/92	0001	JE	O		2.		1.	-
URANIUM	0554	12/12/90	0001	JE	U	MG/L	0.0017		0.0003	-
	0554	03/28/91	0001	JE	U		0.001		0.001	-
	0554	08/05/91	0001	JE	U		< 0.001		0.001	-
	0554	12/05/91	0001	JE	U		0.002		0.001	-
	0554	10/15/92	0001	JE	U		< 0.001		0.001	-
	0702	03/29/89	0001	JE	O		0.047		0.003	0.010
	0702	12/12/90	0001	JE	O		0.0178		0.0003	-
	0702	03/31/91	0001	JE	O		0.004		0.001	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
O - ON-SITE
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PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
J - ESTIMATED VALUE

107

116 J.D.
6/15/93

TABLE 5. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
URANIUM	0702	08/07/91	0001	JE	O	MG/L		0.010		0.001	-
	0702	12/05/91	0001	JE	O			0.004		0.001	-
	0702	10/11/92	0001	JE	O			0.015		0.001	-
	0704	03/29/89	0001	JE	O			0.006		0.003	0.001
	0704	12/12/90	0001	JE	O			0.0028		0.0003	-
	0704	04/01/91	0001	JE	O			0.001		0.001	-
	0704	08/24/91	0001	JE	O			0.001		0.001	-
	0704	12/05/91	0001	JE	O			0.004		0.001	-
	0704	10/12/92	0001	JE	O			0.003		0.001	-
VANADIUM	0554	12/12/90	0001	JE	U	MG/L		0.03		0.01	-
	0554	03/28/91	0001	JE	U		<	0.01		0.01	-
	0554	08/05/91	0001	JE	U		<	0.01		0.01	-
	0554	12/06/91	0001	JE	U		<	0.01		0.01	-
	0554	10/15/92	0001	JE	U		<	0.01		0.01	-
	0702	03/29/89	0001	JE	O		<	0.01		0.01	-
	0702	12/12/90	0001	JE	O			0.03		0.01	-
	0702	03/31/91	0001	JE	O		<	0.01		0.01	-
	0702	08/07/91	0001	JE	O		<	0.01		0.01	-
	0702	12/07/91	0001	JE	O			0.01		0.01	-
	0702	10/11/92	0001	JE	O		<	0.01		0.01	-
	0704	03/29/89	0001	JE	O		<	0.01		0.01	-
	0704	12/12/90	0001	JE	O			0.03		0.01	-
	0704	04/01/91	0001	JE	O		<	0.01		0.01	-
	0704	08/24/91	0001	JE	O		<	0.01		0.01	-
	0704	12/12/91	0001	JE	O		<	0.01		0.01	-
	0704	10/12/92	0001	JE	O		<	0.01		0.01	-
ZINC	0554	12/12/90	0001	JE	U	MG/L	<	0.005		0.005	-
	0554	03/28/91	0001	JE	U		<	0.03	I	0.03	-
	0554	08/05/91	0001	JE	U		<	0.01	I	0.01	-
	0554	12/06/91	0001	JE	U		<	0.005		0.005	-
	0554	10/15/92	0001	JE	U		<	0.03	I	0.03	-
	0702	03/29/89	0001	JE	O			0.01		0.005	-
	0702	12/12/90	0001	JE	O		<	0.005		0.005	-
	0702	03/31/91	0001	JE	O		<	0.005		0.005	-
	0702	08/07/91	0001	JE	O		<	0.005		0.005	-
	0702	12/07/91	0001	JE	O		<	0.005		0.005	-
	0702	10/11/92	0001	JE	O			0.006		0.005	-

FORMATION OF COMPLETION CODE:
JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:
O - ON-SITE
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

100

117 2.0.
6/15/93

TABLE 5. ON-SITE AND DOWNGRAIDENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ZINC	0704	03/29/89	0001	JE	0	MG/L		0.01		0.005	-
	0704	12/12/90	0001	JE	0		<	0.005		0.005	-
	0704	04/01/91	0001	JE	0		<	0.03	1	0.03	-
	0704	08/24/91	0001	JE	0		<	0.005		0.005	-
	0704	12/12/91	0001	JE	0		<	0.005		0.005	-
	0704	10/12/92	0001	JE	0		<	0.005		0.005	-

FORMATION OF COMPLETION CODE:

JE - JURASSIC ENTRADA SANDSTONE FORMATION

FLOW RELATIONSHIP CODE:

0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

DATA FILE NAME: M:\DART\SRK01\GMQ10028.DAT

118 JZ
6/15/93

TABLE 6. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME				UNITS					STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS		MINIMUM	MAXIMUM *		
ALKALINITY				MG/L CaCO ₃								
17	149.0000	623.0000	200.0000	294.7059	181.4651	0.6157	0.0		181.0235	408.3883	NORMAL	
ALUMINUM				MG/L								
17	** 0.0500	0.0500	** 0.0500	NA	NA	NA	100.0	**	0.0500	0.0500	NONPARAMETRIC	2
AMMONIUM				MG/L								
17	0.0400	0.6000	0.0500	NA	NA	NA	41.2		0.0500	0.2000	NONPARAMETRIC	2
ANTIMONY				MG/L								
17	** 0.0030	0.0060	** 0.0030	NA	NA	NA	82.4	**	0.0030	** 0.0030	NONPARAMETRIC	2
ARSENIC				MG/L								
17	0.0010	0.0100	0.0050	NA	NA	NA	76.5		0.0025	0.0050	NONPARAMETRIC	2
BARIUM				MG/L								
17	0.0500	1.3400	0.0900	0.1428	2.9260	NA	11.8		0.0729	0.2798	LOGNORMAL	7,8
BERYLLIUM				MG/L								
14	** 0.0050	0.0050	** 0.0050	NA	NA	NA	100.0	**	0.0050	0.0050	NONPARAMETRIC	2
BORON				MG/L								
12	** 0.0500	0.4000	+ 0.0800	NA	NA	NA	41.7	**	0.0500	0.3100	NONPARAMETRIC	2
BROMIDE				MG/L								
15	0.0500	5.0000	0.3000	NA	NA	NA	40.0		0.1000	3.4000	NONPARAMETRIC	2
CADMIUM				MG/L								
17	0.0002	0.0025	0.0005	NA	NA	NA	88.2		0.0005	0.0005	NONPARAMETRIC	2

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

110

119 J.D.
6/15/93

TABLE 6. ON-SITE AND DOWNGRAIDENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME				UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN					MINIMUM	MAXIMUM *		
CALCIUM				MG/L								
17	40.9000	203.0000	57.8000	82.4176	46.9332	0.5695	0.0		53.0154	111.8199	NORMAL	
CHLORIDE				MG/L								
17	24.0000	1180.0000	66.0000	106.1425	4.2045	NA	0.0		43.1668	260.9925	LOGNORMAL	7,8
CHROMIUM				MG/L								
17	** 0.0100	** 0.0100	** 0.0100	NA	NA	NA	100.0	** 0.0100	** 0.0100		NONPARAMETRIC	2
COBALT				MG/L								
14	** 0.0300	** 0.0300	** 0.0300	NA	NA	NA	100.0	** 0.0300	** 0.0300		NONPARAMETRIC	2
COPPER				MG/L								
17	** 0.0100	0.0100	** 0.0100	NA	NA	NA	100.0	** 0.0100	0.0100		NONPARAMETRIC	2
CYANIDE				MG/L								
14	** 0.0070	0.0070	** 0.0070	NA	NA	NA	92.9	** 0.0070	** 0.0070		NONPARAMETRIC	2
DISSOLVED OXYGEN				MG/L								
3	0.0000	9.6000	5.0000	NA	NA	NA	0.0		NA	NA	UNKNOWN	1
FIELD FE (2+)				MG/L								
1	1.8400	1.8400	1.8400	NA	NA	NA	0.0		NA	NA	UNKNOWN	1
FIELD FE (TOTAL)				MG/L								
1	1.9800	1.9800	1.9800	NA	NA	NA	0.0		NA	NA	UNKNOWN	1
FLUORIDE				MG/L								
17	** 0.1000	0.4000	0.2000	0.2382	0.0928	0.3893	5.9		0.1801	0.2963	NORMAL	

** The reported value is the minimum detection limit of the data set

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

111

120 28.2.
6/15/93

TABLE 6. ON-SITE AND DOWNGRADEMENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME					UNITS	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	PCI/L	MINIMUM					MAXIMUM *			
GROSS ALPHA					PCI/L								
15	** 1.0000	21.7000	3.1000		NA	NA	NA	6.7	** 1.0000	8.3000	NONPARAMETRIC	9	
GROSS BETA					PCI/L								
17	** 0.5000	43.0000	8.3000		NA	NA	NA	0.0	4.6000	16.1000	NONPARAMETRIC	9	
IRON					MG/L								
17	** 0.0300	2.3300	** 0.0300		NA	NA	NA	64.7	** 0.0300	0.7300	NONPARAMETRIC	2	
LEAD					MG/L								
17	** 0.0030	0.0100	** 0.0030		NA	NA	NA	100.0	** 0.0030	0.0050	NONPARAMETRIC	2	
LEAD-210					PCI/L								
6	** 1.5000	** 1.5000	** 1.5000		NA	NA	NA	0.0	** 1.5000	** 1.5000	NONPARAMETRIC	9,6	
MAGNESIUM					MG/L								
17	39.5000	297.0000	86.0000		110.3529	76.2419	0.6909	0.0	62.5897	158.1162	NORMAL		
MANGANESE					MG/L								
17	** 0.0100	0.8500	0.0200		NA	NA	NA	47.1	** 0.0100	0.6200	NONPARAMETRIC	2	
MERCURY					MG/L								
14	** 0.0002	** 0.0002	** 0.0002		NA	NA	NA	100.0	** 0.0002	** 0.0002	NONPARAMETRIC	2	
MOLYBDENUM					MG/L								
17	0.0030	0.0600	0.0050		NA	NA	NA	70.6	0.0050	0.0170	NONPARAMETRIC	2	
NET GROSS ALPHA ***					PCI/L								
15	-10.2900	21.0100	-0.2600		NA	NA	NA	0.0	-2.7400	7.5100	NONPARAMETRIC	9	

*** NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

** The reported value is the minimum detection limit of the data set

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

6) The stat. range is the 96.9% confidence interval due to a sample size of 6. The maximum is the 98.5% one sided confidence int.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

117

121 J.R.
6/15/93

TABLE 6. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME					UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN									
NICKEL					MG/L								
17	** 0.0400	** 0.0400	** 0.0400	NA		NA	NA	100.0	** 0.0400	** 0.0400	NONPARAMETRIC	2	
NITRATE					MG/L								
17	0.5000	126.0000	10.8000	NA		NA	NA	17.6	1.9000	79.2000	NONPARAMETRIC	2	
NITRITE AND NITRATE					MG/L								
6	0.2300	17.9000	+ 2.5650	2.5352		5.5131	NA	0.0	0.2429	26.4554	LOGNORMAL	7,8	
PH					SU								
17	6.9300	7.9700	7.7400	NA		NA	NA	0.0	NA	NA	UNKNOWN		
PHOSPHATE					MG/L								
17	0.0500	1.2000	0.1000	NA		NA	NA	47.1	0.0500	0.2000	NONPARAMETRIC	2	
POLONIUM-210					PCI/L								
6	** 1.0000	1.4000	** 1.0000	NA		NA	NA	0.0	** 1.0000	1.4000	NONPARAMETRIC	9,6	
POTASSIUM					MG/L								
17	2.3400	10.5000	7.9000	6.8553		2.5483	0.3717	0.0	5.2589	8.4517	NORMAL		
RADIUM-226					PCI/L								
15	** 0.5000	1.0000	0.5000	0.5267		0.2604	0.4944	0.0	** 0.5000	0.7031	NORMAL		
RADIUM-226 + RADIUM-228					PCI/L								
15	0.3000	3.8000	1.1000	1.4733		0.9801	0.6653	0.0	0.8093	2.1374	NORMAL		

- ** The reported value is the minimum detection limit of the data set
+ The sample size is even, so the median value is the arithmetic average of the two middle values
* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$
1) A minimum of 4 samples must be available for the statistical analysis.
2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.
6) The stat. range is the 96.9% confidence interval due to a sample size of 6. The maximum is the 98.5% one sided confidence int.
7) The lognormal distribution was used because the data failed the normal distribution test.
8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.
9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

122 JLL
6/15/93

TABLE 6. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME					UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN									
RADIUM-228					PCI/L								
15	** 1.0000	3.5000	** 1.0000	NA		NA	NA	0.0	** 1.0000	1.8000	NONPARAMETRIC	9	
REDOX POTENTIAL					mVOLTS								
6	80.5000	436.5000	+ 411.0000	308.7500		176.6102	0.5720	0.0	66.1308	551.3692	NORMAL		
SELENIUM					MG/L								
17	** 0.0050	0.0420	0.0170	NA		NA	NA	29.4	** 0.0050	0.0260	NONPARAMETRIC	2	
SILICA - SiO2					MG/L								
17	8.1000	16.0000	10.7000	11.6118		2.3775	0.2047	0.0	10.1224	13.1012	NORMAL		
SILVER					MG/L								
14	** 0.0100	** 0.0100	** 0.0100	NA		NA	NA	100.0	** 0.0100	** 0.0100	NONPARAMETRIC	2	
SODIUM					MG/L								
17	10.0000	280.0000	32.0000	91.5471		90.8342	0.9922	0.0	34.6422	148.4519	NORMAL		
SPECIFIC CONDUCTANCE					UMHO/CM								
14	400.0000	3340.0000	+ 1015.0000	1494.4286		1081.5818	0.7237	0.0	728.4066	2260.4505	NORMAL		
STRONTIUM					MG/L								
15	0.4500	4.3600	1.0400	1.5953		1.1976	0.7507	0.0	0.7839	2.4068	NORMAL		
SULFATE					MG/L								
17	39.0000	436.0000	132.0000	172.7059		113.0060	0.6543	0.0	101.9111	243.5007	NORMAL		
SULFIDE					MG/L								
12	0.1000	42.3000	+ 0.6000	1.4025		8.6353	NA	0.0	0.2584	7.6124	LOGNORMAL	7,8	

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

114

125 222.
6/15/93

TABLE 6. ON-SITE AND DOWNGRAIDENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME					UNITS								
# OF SAMP	MINIMUM		MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE	
TEMPERATURE					C - DEGREE								
17	11.9000		15.2000	13.9000	13.8706	0.7928	0.0572	0.0	13.3740	14.3672	NORMAL		
THALLIUM					HG/L								
17	**	0.0010	0.0500	0.0050	NA	NA	NA	100.0	0.0025	0.0050	NONPARAMETRIC	2	
THORIUM-230					PCI/L								
6	**	1.0000	** 1.0000	** 1.0000	** 1.0000	0.1517	0.6066	0.0	** 1.0000	** 1.0000	NORMAL		
TIN					MG/L								
17	**	0.0050	0.0250	** 0.0050	NA	NA	NA	100.0	** 0.0050	0.0250	NONPARAMETRIC	2	
TOTAL DISSOLVED SOLIDS					MG/L								
17	412.0000		2650.0000	724.0000	1033.7059	716.2405	0.6929	0.0	585.0030	1482.4087	NORMAL		
TOTAL KJELDAHL NITROGEN					MG/L								
9	**	1.0000	1.0000	1.0000	NA	NA	NA	66.7	** 1.0000	1.0000	NONPARAMETRIC	2	
TOTAL ORGANIC CARBON					MG/L								
12	**	1.0000	74.0000	+ 2.0000	3.5829	4.7081	NA	8.3	1.0624	12.0828	LOGNORMAL	7,8	
URANIUM					MG/L								
17	0.0005		0.0470	0.0030	0.0032	3.5767	NA	11.8	0.0014	0.0071	LOGNORMAL	7,8	
VANADIUM					MG/L								
17	**	0.0100	0.0300	** 0.0100	NA	NA	NA	76.5	** 0.0100	0.0100	NONPARAMETRIC	2	
ZINC					MG/L								
17	**	0.0050	0.0150	** 0.0050	NA	NA	NA	82.4	** 0.0050	0.0100	NONPARAMETRIC	2	

- ** The reported value is the minimum detection limit of the data set
+ The sample size is even, so the median value is the arithmetic average of the two middle values
* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$
2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.
7) The lognormal distribution was used because the data failed the normal distribution test.
8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

115

127 J.R.
-6/15/93

TABLE 6. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE ENTRADA SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
03/29/89 TO 10/15/92
REPORT DATE: 05/07/93

PARAMETER NAME			UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN				MINIMUM	MAXIMUM *		

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

INPUT DATA FILENAME: M:\DART\SRK01\GWQ10028.DAT

125 M.A.
6/15/93

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	0669	06/30/86	0001	NA	U	MG/L CAC03		205.		-	-
	0669	10/14/87	0001	NA	U			236.		-	-
	0669	02/19/88	0001	NA	U			185.		-	-
	0669	12/15/90	0001	NA	U			274.		-	-
	0669	03/31/91	0001	NA	U			267.		-	-
	0669	08/24/91	0001	NA	U			243		-	-
	0669	11/19/91	0001	NA	U			227		-	-
	0669	10/12/92	0001	NA	U			238		-	-
	0670	07/19/86	0001	NA	U			225.		-	-
	0670	10/15/87	0001	NA	U			266.		-	-
	0670	12/15/90	0001	NA	U			279.		-	-
	0670	04/01/91	0001	NA	U			262.		-	-
	0670	08/24/91	0001	NA	U			271		-	-
	0670	12/05/91	0001	NA	U			272		-	-
	0670	10/14/92	0001	NA	U			207		-	-
	0688	07/17/86	0001	NA	U			329.		-	-
	0688	04/08/87	0001	NA	U			303.		-	-
	0688	10/14/87	0001	NA	U			317.		-	-
	0688	02/19/88	0001	NA	U			355.		-	-
	0688	12/15/90	0001	NA	U			301.		-	-
	0688	03/28/91	0001	NA	U			298.		-	-
	0688	08/08/91	0001	NA	U			304		-	-
	0688	12/05/91	0001	NA	U			303		-	-
	0688	10/07/92	0001	NA	U			302		-	-
ALUMINUM	0669	06/30/86	0001	NA	U	MG/L		0.4		0.1	-
	0669	10/14/87	0001	NA	U		<	0.1		0.1	-
	0669	02/19/88	0001	NA	U			0.10		0.1	-
	0669	12/15/90	0001	NA	U		<	0.1		0.1	-
	0669	03/31/91	0001	NA	U		<	0.05		0.05	-
	0669	08/24/91	0001	NA	U		<	0.05		0.05	-
	0669	11/19/91	0001	NA	U		<	0.05		0.05	-
	0669	10/12/92	0001	NA	U		<	0.05		0.05	-
	0670	07/19/86	0001	NA	U			0.3		0.1	-
	0670	10/15/87	0001	NA	U		<	0.1		0.1	-
	0670	12/15/90	0001	NA	U		<	0.1		0.1	-
	0670	04/01/91	0001	NA	U		<	0.05		0.05	-
	0670	08/24/91	0001	NA	U		<	0.05		0.05	-
	0670	10/14/92	0001	NA	U		<	0.05		0.05	-
	0688	07/17/86	0001	NA	U			0.2		0.1	-
	0688	04/08/87	0001	NA	U			0.1		0.1	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

117

126 J.L.
6/15/93

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALUMINUM	0688	10/14/87	0001	NA	U	MG/L	<	0.1		0.1	-
	0688	02/19/88	0001	NA	U			0.10		0.1	-
	0688	12/15/90	0001	NA	U		<	0.1		0.1	-
	0688	03/28/91	0001	NA	U		<	0.05		0.05	-
	0688	08/08/91	0001	NA	U		<	0.05		0.05	-
	0688	12/06/91	0001	NA	U		<	0.05		0.05	-
	0688	10/07/92	0001	NA	U		<	0.05		0.05	-
AMMONIUM	0669	10/14/87	0001	NA	U	MG/L		0.2		0.1	-
	0669	02/19/88	0001	NA	U		<	0.1		0.1	-
	0669	12/15/90	0001	NA	U		<	0.1		0.1	-
	0669	03/31/91	0001	NA	U			0.2		0.1	-
	0669	08/24/91	0001	NA	U		<	0.1		0.1	-
	0669	11/19/91	0001	NA	U		<	0.1		0.1	-
	0669	10/12/92	0001	NA	U			1.7		0.1	-
	0670	10/15/87	0001	NA	U			0.3		0.1	-
	0670	12/15/90	0001	NA	U		<	0.1		0.1	-
	0670	04/01/91	0001	NA	U			0.2		0.1	-
	0670	08/24/91	0001	NA	U			0.3		0.1	-
	0670	11/20/91	0001	NA	U			0.1		0.1	-
	0670	10/14/92	0001	NA	U			0.2		0.1	-
	0688	04/08/87	0001	NA	U		<	0.1		0.1	-
	0688	10/14/87	0001	NA	U		<	0.1		0.1	-
	0688	02/19/88	0001	NA	U		<	0.1		0.1	-
	0688	12/15/90	0001	NA	U		<	0.1		0.1	-
	0688	03/28/91	0001	NA	U		<	0.1		0.1	-
	0688	08/08/91	0001	NA	U		<	0.1		0.1	-
	0688	12/06/91	0001	NA	U		<	0.1		0.1	-
	0688	10/07/92	0001	NA	U			0.1		0.1	-
ANTIMONY	0669	12/15/90	0001	NA	U	MG/L	<	0.003		0.003	-
	0669	03/31/91	0001	NA	U		<	0.003		0.003	-
	0669	08/24/91	0001	NA	U		<	0.003		0.003	-
	0669	11/19/91	0001	NA	U		<	0.003		0.003	-
	0669	10/12/92	0001	NA	U			0.009		0.003	-
	0670	12/15/90	0001	NA	U		<	0.003		0.003	-
	0670	04/01/91	0001	NA	U		<	0.003		0.003	-
	0670	08/24/91	0001	NA	U		<	0.003		0.003	-
	0670	10/14/92	0001	NA	U		<	0.003		0.003	-
	0688	04/08/87	0001	NA	U		<	0.003		0.003	-
	0688	12/15/90	0001	NA	U		<	0.003		0.003	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

118

127 JLD.
6/15/93

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ANTIMONY	0688	03/28/91	0001	NA	U	MG/L	<	0.003		0.003	-
	0688	08/08/91	0001	NA	U		<	0.003		0.003	-
	0688	12/06/91	0001	NA	U		<	0.003		0.003	-
	0688	10/07/92	0001	NA	U		<	0.003		0.003	-
ARSENIC	0669	06/30/86	0001	NA	U	MG/L	<	0.01		0.01	-
	0669	10/14/87	0001	NA	U			0.02		0.01	-
	0669	12/15/90	0001	NA	U			0.014		0.01	-
	0669	03/31/91	0001	NA	U			0.01		0.01	-
	0669	08/24/91	0001	NA	U			0.01		0.01	-
	0669	11/19/91	0001	NA	U			0.01		0.01	-
	0669	10/12/92	0001	NA	U			0.010		0.005	-
	0670	07/19/86	0001	NA	U		<	0.01		0.01	-
	0670	10/15/87	0001	NA	U			0.02		0.01	-
	0670	12/15/90	0001	NA	U			0.025		0.01	-
	0670	04/01/91	0001	NA	U			0.01		0.01	-
	0670	08/24/91	0001	NA	U		<	0.01		0.01	-
	0670	10/14/92	0001	NA	U			0.013		0.005	-
	0688	07/17/86	0001	NA	U		<	0.01		0.01	-
	0688	04/08/87	0001	NA	U		<	0.001		0.01	-
	0688	10/14/87	0001	NA	U		<	0.01		0.01	-
	0688	12/15/90	0001	NA	U		<	0.001		0.01	-
	0688	03/28/91	0001	NA	U		<	0.01		0.01	-
	0688	08/08/91	0001	NA	U		<	0.01		0.01	-
	0688	12/06/91	0001	NA	U		<	0.01		0.01	-
	0688	10/07/92	0001	NA	U		<	0.005		0.005	-
BARIUM	0669	10/14/87	0001	NA	U	MG/L		0.2		0.1	-
	0669	12/15/90	0001	NA	U			0.1		0.1	-
	0669	03/31/91	0001	NA	U			0.15		0.01	-
	0669	08/24/91	0001	NA	U			0.12		0.01	-
	0669	11/19/91	0001	NA	U			0.11		0.01	-
	0669	10/12/92	0001	NA	U			0.08		0.01	-
	0670	10/15/87	0001	NA	U			0.1		0.1	-
	0670	12/15/90	0001	NA	U			0.1		0.1	-
	0670	04/01/91	0001	NA	U			0.16		0.01	-
	0670	08/24/91	0001	NA	U			0.15		0.01	-
	0670	10/14/92	0001	NA	U			0.06		0.01	-
	0688	04/08/87	0001	NA	U			0.1		0.1	-
	0688	10/14/87	0001	NA	U			0.2		0.1	-
	0688	12/15/90	0001	NA	U			0.2		0.1	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

119

128 221
6/15/93

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BARIUM	0688	03/28/91	0001	NA	U	MG/L	0.19		0.01	-
	0688	08/08/91	0001	NA	U		0.20		0.01	-
	0688	12/06/91	0001	NA	U		0.17		0.01	-
	0688	10/07/92	0001	NA	U		0.19		0.01	-
BERYLLIUM	0669	12/15/90	0001	NA	U	MG/L	< 0.01		0.01	-
	0669	03/31/91	0001	NA	U		< 0.005		0.005	-
	0669	08/24/91	0001	NA	U		< 0.005		0.005	-
	0669	11/19/91	0001	NA	U		< 0.005		0.005	-
	0670	12/15/90	0001	NA	U		< 0.01		0.01	-
	0670	04/01/91	0001	NA	U		< 0.005		0.005	-
	0670	08/24/91	0001	NA	U		< 0.005		0.005	-
	0688	12/15/90	0001	NA	U		< 0.01		0.01	-
	0688	03/28/91	0001	NA	U		< 0.005		0.005	-
	0688	08/08/91	0001	NA	U		< 0.005		0.005	-
	0688	12/06/91	0001	NA	U		< 0.005		0.005	-
BORON	0669	10/14/87	0001	NA	U	MG/L	0.4		0.1	-
	0669	12/15/90	0001	NA	U		0.5		0.1	-
	0669	03/31/91	0001	NA	U		0.48		0.05	-
	0669	08/24/91	0001	NA	U		0.53		0.05	-
	0669	11/19/91	0001	NA	U		0.55		0.05	-
	0670	10/15/87	0001	NA	U		0.3		0.1	-
	0670	12/15/90	0001	NA	U		0.3		0.1	-
	0670	04/01/91	0001	NA	U		0.25		0.05	-
	0670	08/24/91	0001	NA	U		0.32		0.05	-
	0688	10/14/87	0001	NA	U		0.1		0.1	-
	0688	12/15/90	0001	NA	U		0.1		0.1	-
	0688	03/28/91	0001	NA	U		0.13		0.05	-
	0688	08/08/91	0001	NA	U		0.14		0.05	-
	0688	12/06/91	0001	NA	U		0.11		0.05	-
BROMIDE	0669	12/15/90	0001	NA	U	MG/L	< 0.1	c	0.1	-
	0669	03/31/91	0001	NA	U		< 0.1		0.1	-
	0669	08/24/91	0001	NA	U		< 0.1		0.1	-
	0669	11/19/91	0001	NA	U		< 0.1		0.1	-
	0669	10/12/92	0001	NA	U		< 0.1		0.1	-
	0670	12/15/90	0001	NA	U		< 0.1	c	0.1	-
	0670	04/01/91	0001	NA	U		< 0.1		0.1	-
	0670	08/24/91	0001	NA	U		< 0.1		0.1	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

120

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

6/15/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BROMIDE	0670	11/20/91	0001	NA	U	MG/L	<	0.1		0.1	-
	0670	10/14/92	0001	NA	U		<	0.1		0.1	-
	0688	12/15/90	0001	NA	U		<	0.1	c	0.1	-
	0688	03/28/91	0001	NA	U			0.1		0.1	-
	0688	08/08/91	0001	NA	U		<	0.1		0.1	-
	0688	12/06/91	0001	NA	U			3.1		0.8	-
	0688	10/07/92	0001	NA	U		<	0.2	I	0.2	-
CADMIUM	0669	10/14/87	0001	NA	U	MG/L	<	0.001		0.001	-
	0669	12/15/90	0001	NA	U		<	0.001		0.001	-
	0669	03/31/91	0001	NA	U		<	0.001		0.001	-
	0669	08/24/91	0001	NA	U		<	0.001		0.001	-
	0669	11/19/91	0001	NA	U		<	0.001		0.001	-
	0669	10/12/92	0001	NA	U		<	0.005	I	0.005	-
	0670	10/15/87	0001	NA	U		<	0.001		0.001	-
	0670	12/15/90	0001	NA	U		<	0.001		0.001	-
	0670	04/01/91	0001	NA	U		<	0.001		0.001	-
	0670	08/24/91	0001	NA	U		<	0.001		0.001	-
	0670	10/14/92	0001	NA	U		<	0.001		0.001	-
	0688	04/08/87	0001	NA	U		<	0.001		0.001	-
	0688	10/14/87	0001	NA	U		<	0.001		0.001	-
	0688	12/15/90	0001	NA	U		<	0.001		0.001	-
	0688	03/28/91	0001	NA	U		<	0.001		0.001	-
	0688	08/08/91	0001	NA	U		<	0.001		0.001	-
	0688	12/06/91	0001	NA	U		<	0.001		0.001	-
	0688	10/07/92	0001	NA	U		<	0.001		0.001	-
CALCIUM	0669	06/30/86	0001	NA	U	MG/L		31.9		0.01	-
	0669	10/14/87	0001	NA	U			34.		0.01	-
	0669	02/19/88	0001	NA	U			29.0		0.01	-
	0669	12/15/90	0001	NA	U			24.1		0.01	-
	0669	03/31/91	0001	NA	U			37.0		0.5	-
	0669	08/24/91	0001	NA	U			38.9		0.5	-
	0669	11/19/91	0001	NA	U			39.2		0.5	-
	0669	10/12/92	0001	NA	U			34.5		0.5	-
	0670	07/19/86	0001	NA	U			34.8		0.01	-
	0670	10/15/87	0001	NA	U			42.		0.01	-
	0670	12/15/90	0001	NA	U			44.2		0.01	-
	0670	04/01/91	0001	NA	U			41.9		0.5	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
c - CHANGED DETECTION LIMIT

121

130 J.K.
6/15/93

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CALCIUM	0670	08/24/91	0001	NA	U	MG/L	44.8		0.5	-
	0670	10/14/92	0001	NA	U		6.6		0.1	-
	0688	07/17/86	0001	NA	U		58.4		0.01	-
	0688	04/08/87	0001	NA	U		61.7		0.01	-
	0688	10/14/87	0001	NA	U		68.		0.01	-
	0688	02/19/88	0001	NA	U		60.9		0.01	-
	0688	12/15/90	0001	NA	U		60.9		0.01	-
	0688	03/28/91	0001	NA	U		60.1		0.5	-
	0688	08/08/91	0001	NA	U		64.3		0.5	-
	0688	12/06/91	0001	NA	U		54.3		0.5	-
	0688	10/07/92	0001	NA	U		61.4		0.5	-
CHLORIDE	0669	06/30/86	0001	NA	U	MG/L	9.8		1.	-
	0669	10/14/87	0001	NA	U		4.5		1.	-
	0669	02/19/88	0001	NA	U		4.0		1.	-
	0669	12/15/90	0001	NA	U		4.		1.	-
	0669	03/31/91	0001	NA	U		4.9		0.5	-
	0669	08/24/91	0001	NA	U		4.9		0.5	-
	0669	11/19/91	0001	NA	U		4.7		0.5	-
	0669	10/12/92	0001	NA	U		5.0		0.5	-
	0670	07/19/86	0001	NA	U		18.		1.	-
	0670	10/15/87	0001	NA	U		10.0		1.	-
	0670	12/15/90	0001	NA	U		7.		1.	-
	0670	04/01/91	0001	NA	U		8.7		0.5	-
	0670	08/24/91	0001	NA	U		9.1		0.5	-
	0670	11/20/91	0001	NA	U		8.3		0.5	-
	0670	10/14/92	0001	NA	U		8.4		0.5	-
	0688	07/17/86	0001	NA	U		48.		1.	-
	0688	04/08/87	0001	NA	U		26.4		1.	-
	0688	10/14/87	0001	NA	U		27.		1.	-
	0688	02/19/88	0001	NA	U		30.		1.	-
	0688	12/15/90	0001	NA	U		25.		1.	-
	0688	03/28/91	0001	NA	U		24.		1.	-
	0688	08/08/91	0001	NA	U		26.		1.	-
	0688	12/06/91	0001	NA	U		660.		1.	-
	0688	10/07/92	0001	NA	U		23.		1.	-
CHROMIUM	0669	10/14/87	0001	NA	U	MG/L	< 0.01		0.01	-
	0669	12/15/90	0001	NA	U		< 0.01		0.01	-
	0669	03/31/91	0001	NA	U		< 0.01		0.01	-
	0669	08/24/91	0001	NA	U		< 0.01		0.01	-

FORMATION OF COMPLETION CODE:

NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:

U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

122

131 22.2
6/15/93

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CHROMIUM	0669	11/19/91	0001	NA	U	MG/L	< 0.01		0.01	-
	0669	10/12/92	0001	NA	U		< 0.01		0.01	-
	0670	10/15/87	0001	NA	U		< 0.01		0.01	-
	0670	12/15/90	0001	NA	U		< 0.01		0.01	-
	0670	04/01/91	0001	NA	U		< 0.01		0.01	-
	0670	08/24/91	0001	NA	U		< 0.01		0.01	-
	0670	10/14/92	0001	NA	U		< 0.01		0.01	-
	0688	04/08/87	0001	NA	U		< 0.01		0.01	-
	0688	10/14/87	0001	NA	U		< 0.01		0.01	-
	0688	12/15/90	0001	NA	U		< 0.01		0.01	-
	0688	03/28/91	0001	NA	U		< 0.01		0.01	-
	0688	08/08/91	0001	NA	U		< 0.01		0.01	-
	0688	12/06/91	0001	NA	U		< 0.01		0.01	-
	0688	10/07/92	0001	NA	U		< 0.01		0.01	-
COBALT	0669	12/15/90	0001	NA	U	MG/L	< 0.05		0.05	-
	0669	03/31/91	0001	NA	U		< 0.03		0.03	-
	0669	08/24/91	0001	NA	U		< 0.03		0.03	-
	0669	11/19/91	0001	NA	U		< 0.03		0.03	-
	0670	12/15/90	0001	NA	U		< 0.05		0.05	-
	0670	04/01/91	0001	NA	U		< 0.03		0.03	-
	0670	08/24/91	0001	NA	U		< 0.03		0.03	-
	0688	12/15/90	0001	NA	U		< 0.05		0.05	-
	0688	03/28/91	0001	NA	U		< 0.03		0.03	-
	0688	08/08/91	0001	NA	U		< 0.03		0.03	-
	0688	12/06/91	0001	NA	U		< 0.03		0.03	-
COPPER	0669	10/14/87	0001	NA	U	MG/L	< 0.02		0.02	-
	0669	12/15/90	0001	NA	U		< 0.02		0.02	-
	0669	03/31/91	0001	NA	U		< 0.01		0.01	-
	0669	08/24/91	0001	NA	U		< 0.01		0.01	-
	0669	11/19/91	0001	NA	U		< 0.01		0.01	-
	0669	10/12/92	0001	NA	U		< 0.01		0.01	-
	0670	10/15/87	0001	NA	U		< 0.02		0.02	-
	0670	12/15/90	0001	NA	U		< 0.02		0.02	-
	0670	04/01/91	0001	NA	U		< 0.01		0.01	-
	0670	08/24/91	0001	NA	U		< 0.01		0.01	-
	0670	10/14/92	0001	NA	U		< 0.01		0.01	-
	0688	04/08/87	0001	NA	U		< 0.01		0.02	-
	0688	10/14/87	0001	NA	U		< 0.02		0.02	-
	0688	12/15/90	0001	NA	U		< 0.02		0.02	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

123

132 22
6/15/93

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
COPPER	0688	03/28/91	0001	NA	U	MG/L	<	0.01		0.01	-
	0688	08/08/91	0001	NA	U		<	0.01		0.01	-
	0688	12/06/91	0001	NA	U		<	0.01		0.01	-
	0688	10/07/92	0001	NA	U		<	0.01		0.01	-
CYANIDE	0669	12/15/90	0001	NA	U	MG/L	<	0.01		0.01	-
	0669	03/31/91	0001	NA	U		<	0.01		0.01	-
	0669	08/24/91	0001	NA	U		<	0.01		0.01	-
	0669	11/19/91	0001	NA	U		<	0.01		0.01	-
	0670	12/15/90	0001	NA	U		<	0.01		0.01	-
	0670	04/01/91	0001	NA	U		<	0.01		0.01	-
	0670	08/24/91	0001	NA	U		<	0.01		0.01	-
	0670	11/20/91	0001	NA	U		<	0.01		0.01	-
	0688	12/15/90	0001	NA	U		<	0.01		0.01	-
	0688	03/28/91	0001	NA	U		<	0.01		0.01	-
	0688	08/08/91	0001	NA	U		<	0.01		0.01	-
	0688	12/06/91	0001	NA	U		<	0.01		0.01	-
DISSOLVED OXYGEN	0669	10/12/92	0001	NA	U	MG/L		1.1	J	-	-
	0688	10/07/92	0001	NA	U			5.4		-	-
FIELD FE (2+)	0688	10/07/92	0001	NA	U	MG/L		0.03		-	-
FLUORIDE	0669	10/14/87	0001	NA	U	MG/L		0.8		0.1	-
	0669	02/19/88	0001	NA	U			1.11		0.1	-
	0669	12/15/90	0001	NA	U			1.0		0.1	-
	0669	03/31/91	0001	NA	U			1.0		0.1	-
	0669	08/24/91	0001	NA	U			1.1		0.1	-
	0669	11/19/91	0001	NA	U			1.0		0.1	-
	0669	10/12/92	0001	NA	U			1.1		0.1	-
	0670	10/15/87	0001	NA	U			1.1		0.1	-
	0670	12/15/90	0001	NA	U			1.0		0.1	-
	0670	04/01/91	0001	NA	U			1.1		0.1	-
	0670	08/24/91	0001	NA	U			1.2		0.1	-
	0670	11/20/91	0001	NA	U			1.2		0.1	-
	0670	10/14/92	0001	NA	U			1.4		0.1	-
	0688	04/08/87	0001	NA	U			0.50		0.1	-
	0688	10/14/87	0001	NA	U			0.4		0.1	-
	0688	02/19/88	0001	NA	U			0.50		0.1	-
	0688	12/15/90	0001	NA	U			0.5		0.1	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRAIDENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE

121

133 Jd.
6/15/94.

125

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
FLUORIDE	0688	03/28/91	0001	NA	U	MG/L	0.5		0.1	-
	0688	08/08/91	0001	NA	U		0.5		0.1	-
	0688	12/06/91	0001	NA	U		0.2		0.1	-
	0688	10/07/92	0001	NA	U		0.5		0.1	-
GROSS ALPHA	0669	12/15/90	0001	NA	U	PCI/L	4.1		1.	2.7
	0669	03/31/91	0001	NA	U		2.3		1.	3.3
	0669	08/24/91	0001	NA	U		7.7		1.	3.7
	0669	11/19/91	0001	NA	U		425.		1.	20.2
	0669	10/12/92	0001	NA	U		0.0	N	5.8	3.4
	0670	12/15/90	0001	NA	U		2.6		1.	3.2
	0670	04/01/91	0001	NA	U		5.5		1.	4.0
	0670	08/24/91	0001	NA	U		5.5		1.	4.0
	0670	12/05/91	0001	NA	U		0.0		1.	6.8
	0670	10/14/92	0001	NA	U		1.3	N	5.6	3.5
	0688	12/15/90	0001	NA	U		4.6	b	1.	4.6
	0688	03/28/91	0001	NA	U		3.2		1.	3.5
	0688	08/08/91	0001	NA	U		12.8		1.	7.0
	0688	12/05/91	0001	NA	U		0.0		1.	8.0
	0688	10/07/92	0001	NA	U		5.8		6.6	4.8
GROSS BETA	0669	12/15/90	0001	NA	U	PCI/L	12.		0.5	2.0
	0669	03/31/91	0001	NA	U		11.9		0.5	2.4
	0669	08/24/91	0001	NA	U		17.0		0.5	2.6
	0669	11/19/91	0001	NA	U		51.5		0.5	4.5
	0669	10/12/92	0001	NA	U		14.6	*N	5.3	3.8
	0670	12/15/90	0001	NA	U		11.		0.5	2.
	0670	04/01/91	0001	NA	U		15.1		0.5	2.6
	0670	08/24/91	0001	NA	U		16.6		0.5	2.9
	0670	12/05/91	0001	NA	U		5.6		0.5	5.2
	0670	10/14/92	0001	NA	U		45.4	*N	5.0	4.6
	0688	12/15/90	0001	NA	U		9.0		0.5	2.7
	0688	03/28/91	0001	NA	U		7.5		0.5	2.2
	0688	08/08/91	0001	NA	U		8.6		0.5	4.6
	0688	12/05/91	0001	NA	U		0.0		0.5	5.7
	0688	10/07/92	0001	NA	U		4.0		6.2	3.9
IRON	0669	06/30/86	0001	NA	U	MG/L	0.06		0.03	-

FORMATION OF COMPLETION CODE:

NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:

U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

* - DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS

N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS

b - CHANGED PARAMETER VALUE

134 J2
6/15/93

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
IRON	0669	10/14/87	0001	NA	U	MG/L	<	0.03		0.03	-
	0669	02/19/88	0001	NA	U			0.08		0.03	-
	0669	12/15/90	0001	NA	U		<	0.03		0.03	-
	0669	03/31/91	0001	NA	U		<	0.03		0.03	-
	0669	08/24/91	0001	NA	U			0.03		0.03	-
	0669	11/19/91	0001	NA	U			0.04		0.03	-
	0669	10/12/92	0001	NA	U		<	0.03		0.03	-
	0670	07/19/86	0001	NA	U		<	0.03		0.03	-
	0670	10/15/87	0001	NA	U			0.12		0.03	-
	0670	12/15/90	0001	NA	U			0.74		0.03	-
	0670	04/01/91	0001	NA	U			0.04		0.03	-
	0670	08/24/91	0001	NA	U			0.08		0.03	-
	0670	10/14/92	0001	NA	U		<	0.03		0.03	-
	0688	07/17/86	0001	NA	U		<	0.03		0.03	-
	0688	04/08/87	0001	NA	U			0.05		0.03	-
	0688	10/14/87	0001	NA	U		<	0.03		0.03	-
	0688	02/19/88	0001	NA	U			0.02	c	0.02	-
	0688	12/15/90	0001	NA	U		<	0.03		0.03	-
	0688	03/28/91	0001	NA	U		<	0.03		0.03	-
	0688	08/08/91	0001	NA	U		<	0.03		0.03	-
	0688	12/06/91	0001	NA	U		<	0.03		0.03	-
	0688	10/07/92	0001	NA	U		<	0.03		0.03	-
LEAD	0669	10/14/87	0001	NA	U	MG/L	<	0.01		0.01	-
	0669	12/15/90	0001	NA	U		<	0.01		0.01	-
	0669	03/31/91	0001	NA	U		<	0.005		0.005	-
	0669	08/24/91	0001	NA	U		<	0.005		0.005	-
	0669	11/19/91	0001	NA	U		<	0.005		0.005	-
	0669	10/12/92	0001	NA	U		<	0.02	I	0.02	-
	0670	10/15/87	0001	NA	U		<	0.01		0.01	-
	0670	12/15/90	0001	NA	U		<	0.01		0.01	-
	0670	04/01/91	0001	NA	U		<	0.005		0.005	-
	0670	08/24/91	0001	NA	U		<	0.005		0.005	-
	0670	10/14/92	0001	NA	U		<	0.003		0.003	-
	0688	04/08/87	0001	NA	U		<	0.001		0.01	-
	0688	10/14/87	0001	NA	U		<	0.01		0.01	-
	0688	12/15/90	0001	NA	U		<	0.01		0.01	-
	0688	03/28/91	0001	NA	U		<	0.005		0.005	-
	0688	08/08/91	0001	NA	U		<	0.005		0.005	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
c - CHANGED DETECTION LIMIT

126

135 D.R.
6/15/93

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
LEAD	0688	12/06/91	0001	NA	U	MG/L	<	0.005		0.005	-
	0688	10/07/92	0001	NA	U		<	0.003		0.003	-
LEAD-210	0669	08/24/91	0001	NA	U	PCI/L		0.3		1.5	1.0
	0669	11/19/91	0001	NA	U			0.3		1.5	0.9
	0670	08/24/91	0001	NA	U			0.0		1.5	1.0
	0670	12/05/91	0001	NA	U			0.0		1.5	0.9
	0688	08/08/91	0001	NA	U			0.6		1.5	0.9
	0688	12/05/91	0001	NA	U			1.3		1.5	0.9
MAGNESIUM	0669	06/30/86	0001	NA	U	MG/L		22.3		0.001	-
	0669	10/14/87	0001	NA	U			27.		0.001	-
	0669	02/19/88	0001	NA	U			22.2		0.001	-
	0669	12/15/90	0001	NA	U			16.7		0.001	-
	0669	03/31/91	0001	NA	U			29.1		0.1	-
	0669	08/24/91	0001	NA	U			29.7		0.1	-
	0669	11/19/91	0001	NA	U			31.7		0.1	-
	0669	10/12/92	0001	NA	U			27.6		0.1	-
	0670	07/19/86	0001	NA	U			29.7		0.001	-
	0670	10/15/87	0001	NA	U			36.		0.001	-
	0670	12/15/90	0001	NA	U			36.3		0.001	-
	0670	04/01/91	0001	NA	U			35.0		0.1	-
	0670	08/24/91	0001	NA	U			36.6		0.1	-
	0670	10/14/92	0001	NA	U			20.7		0.1	-
	0688	07/17/86	0001	NA	U			38.6		0.001	-
	0688	04/08/87	0001	NA	U			38.3		0.001	-
	0688	10/14/87	0001	NA	U			41.		0.001	-
	0688	02/19/88	0001	NA	U			39.5		0.001	-
	0688	12/15/90	0001	NA	U			39.6		0.001	-
	0688	03/28/91	0001	NA	U			38.6		0.1	-
	0688	08/08/91	0001	NA	U			41.1		0.1	-
	0688	12/06/91	0001	NA	U			35.0		0.1	-
	0688	10/07/92	0001	NA	U			37.6		0.1	-
MANGANESE	0669	06/30/86	0001	NA	U	MG/L		0.13		0.01	-
	0669	10/14/87	0001	NA	U			0.06		0.01	-
	0669	02/19/88	0001	NA	U			0.07		0.01	-
	0669	12/15/90	0001	NA	U			0.02		0.01	-
	0669	03/31/91	0001	NA	U			0.03		0.01	-
	0669	08/24/91	0001	NA	U			0.02		0.01	-
	0669	11/19/91	0001	NA	U			0.04		0.01	-

FORMATION OF COMPLETION CODE:

NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:

U - UPGRAIDENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

127

136 J2:1
6/15/93

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MANGANESE	0669	10/12/92	0001	NA	U	MG/L		0.03		0.01	-
	0670	07/19/86	0001	NA	U			0.12		0.01	-
	0670	10/15/87	0001	NA	U			0.18		0.01	-
	0670	12/15/90	0001	NA	U			0.11		0.01	-
	0670	04/01/91	0001	NA	U			0.08		0.01	-
	0670	08/24/91	0001	NA	U			0.07		0.01	-
	0670	10/14/92	0001	NA	U		<	0.01		0.01	-
	0688	07/17/86	0001	NA	U			0.01		0.01	-
	0688	04/08/87	0001	NA	U		<	0.01		0.01	-
	0688	10/14/87	0001	NA	U		<	0.01		0.01	-
	0688	02/19/88	0001	NA	U		<	0.01		0.01	-
	0688	12/15/90	0001	NA	U		<	0.01		0.01	-
	0688	03/28/91	0001	NA	U		<	0.01		0.01	-
	0688	08/08/91	0001	NA	U		<	0.01		0.01	-
	0688	12/06/91	0001	NA	U		<	0.01		0.01	-
	0688	10/07/92	0001	NA	U		<	0.01		0.01	-
MERCURY	0669	10/14/87	0001	NA	U	MG/L	<	0.0002		0.0002	-
	0669	12/15/90	0001	NA	U		<	0.0002		0.0002	-
	0669	03/31/91	0001	NA	U		<	0.0002		0.0002	-
	0669	08/24/91	0001	NA	U		<	0.0002		0.0002	-
	0669	11/19/91	0001	NA	U		<	0.0002		0.0002	-
	0670	10/15/87	0001	NA	U		<	0.0002		0.0002	-
	0670	12/15/90	0001	NA	U		<	0.0002		0.0002	-
	0670	04/01/91	0001	NA	U		<	0.0002		0.0002	-
	0670	08/24/91	0001	NA	U		<	0.0002		0.0002	-
	0688	04/08/87	0001	NA	U		<	0.0002		0.0002	-
	0688	10/14/87	0001	NA	U		<	0.0002		0.0002	-
	0688	12/15/90	0001	NA	U		<	0.0002		0.0002	-
	0688	03/28/91	0001	NA	U		<	0.0002		0.0002	-
	0688	08/08/91	0001	NA	U		<	0.0002		0.0002	-
	0688	12/06/91	0001	NA	U		<	0.0002		0.0002	-
MOLYBDENUM	0669	06/30/86	0001	NA	U	MG/L		0.17		0.01	-
	0669	10/14/87	0001	NA	U			0.01		0.01	-
	0669	02/19/88	0001	NA	U			0.02		0.01	-
	0669	12/15/90	0001	NA	U			0.01		0.01	-
	0669	03/31/91	0001	NA	U		<	0.01		0.01	-
	0669	08/24/91	0001	NA	U		<	0.01		0.01	-
	0669	11/19/91	0001	NA	U		<	0.01		0.01	-
	0669	10/12/92	0001	NA	U		<	0.01		0.01	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

128

137 JLR
6/15/93

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MOLYBDENUM	0670	07/19/86	0001	NA	U	MG/L		0.14		0.01	-
	0670	10/15/87	0001	NA	U		<	0.01		0.01	-
	0670	12/15/90	0001	NA	U			0.02		0.01	-
	0670	04/01/91	0001	NA	U		<	0.01		0.01	-
	0670	08/24/91	0001	NA	U		<	0.01		0.01	-
	0670	10/14/92	0001	NA	U			0.01		0.01	-
	0688	07/17/86	0001	NA	U			0.15		0.01	-
	0688	04/08/87	0001	NA	U		<	0.1	c	0.1	-
	0688	10/14/87	0001	NA	U		<	0.01		0.01	-
	0688	02/19/88	0001	NA	U			0.03		0.01	-
	0688	12/15/90	0001	NA	U			0.02		0.01	-
	0688	03/28/91	0001	NA	U		<	0.01		0.01	-
	0688	08/08/91	0001	NA	U		<	0.01		0.01	-
	0688	12/06/91	0001	NA	U		<	0.01		0.01	-
	0688	10/07/92	0001	NA	U		<	0.01		0.01	-
NET GROSS ALPHA *	0669	12/15/90	0001	NA	U	PCI/L		4.00		-	-
	0669	03/31/91	0001	NA	U			1.96		-	-
	0669	08/24/91	0001	NA	U			7.36		-	-
	0669	11/19/91	0001	NA	U			424.66		-	-
	0669	10/12/92	0001	NA	U			-1.37		-	-
	0670	12/15/90	0001	NA	U			2.12		-	-
	0670	04/01/91	0001	NA	U			5.16		-	-
	0670	08/24/91	0001	NA	U			5.16		-	-
	0670	12/05/91	0001	NA	U			-1.37		-	-
	0670	10/14/92	0001	NA	U			0.96		-	-
	0688	12/15/90	0001	NA	U			-4.37		-	-
	0688	03/28/91	0001	NA	U			-0.92		-	-
	0688	08/08/91	0001	NA	U			6.63		-	-
	0688	12/05/91	0001	NA	U			-4.80		-	-
	0688	10/07/92	0001	NA	U			-1.75		-	-
NICKEL	0669	10/14/87	0001	NA	U	MG/L	<	0.04		0.04	-
	0669	02/19/88	0001	NA	U		<	0.01		0.04	-
	0669	12/15/90	0001	NA	U		<	0.05	c	0.05	-
	0669	03/31/91	0001	NA	U		<	0.04		0.04	-
	0669	08/24/91	0001	NA	U		<	0.04		0.04	-
	0669	11/19/91	0001	NA	U		<	0.04		0.04	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

129

138 J.L.
6/15/93

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NICKEL	0669	10/12/92	0001	NA	U	MG/L	<	0.04		0.04	-
	0670	10/15/87	0001	NA	U		<	0.04		0.04	-
	0670	12/15/90	0001	NA	U		<	0.05	c	0.05	-
	0670	04/01/91	0001	NA	U		<	0.04		0.04	-
	0670	08/24/91	0001	NA	U		<	0.04		0.04	-
	0670	10/14/92	0001	NA	U		<	0.04		0.04	-
	0688	04/08/87	0001	NA	U			0.02	c	0.02	-
	0688	10/14/87	0001	NA	U		<	0.04		0.04	-
	0688	02/19/88	0001	NA	U			0.01	c	0.01	-
	0688	12/15/90	0001	NA	U		<	0.05	c	0.05	-
	0688	03/28/91	0001	NA	U		<	0.04		0.04	-
	0688	08/08/91	0001	NA	U		<	0.04		0.04	-
	0688	12/06/91	0001	NA	U		<	0.04		0.04	-
	0688	10/07/92	0001	NA	U		<	0.04		0.04	-
NITRATE	0669	06/30/86	0001	NA	U	MG/L	<	1.		1.	-
	0669	10/14/87	0001	NA	U			1.0		1.	-
	0669	02/19/88	0001	NA	U			0.4	c	0.4	-
	0669	12/15/90	0001	NA	U		<	1.		1.	-
	0669	03/31/91	0001	NA	U			2.9		1.	-
	0669	08/24/91	0001	NA	U			1.2		1.	-
	0669	11/19/91	0001	NA	U		<	1.0		1.	-
	0669	10/12/92	0001	NA	U			7.9		1.0	-
	0670	07/19/86	0001	NA	U		<	1.		1.	-
	0670	10/15/87	0001	NA	U		<	1.0		1.	-
	0670	12/15/90	0001	NA	U		<	1.		1.	-
	0670	04/01/91	0001	NA	U			2.5		1.	-
	0670	08/24/91	0001	NA	U			4.2		1.	-
	0670	11/20/91	0001	NA	U		<	1.0		1.	-
	0670	10/14/92	0001	NA	U			1.7		0.1	-
	0688	07/17/86	0001	NA	U		<	1.		1.	-
	0688	04/08/87	0001	NA	U			1.8		1.	-
	0688	10/14/87	0001	NA	U			1.0		1.	-
	0688	02/19/88	0001	NA	U			0.7	c	0.7	-
	0688	12/15/90	0001	NA	U			1.		1.	-
	0688	03/28/91	0001	NA	U			1.7		1.	-
	0688	08/08/91	0001	NA	U			3.1		1.	-
	0688	12/06/91	0001	NA	U			2.2		1.	-
	0688	10/07/92	0001	NA	U			3.9		1.0	-
NITRITE AND NITRATE	0669	02/19/88	0001	NA	U	MG/L		0.4	c	0.4	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

130

139 JJJ.
6/15/93

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NITRITE AND NITRATE	0669	12/15/90	0001	NA	U	MG/L	<	1.		1.	-
	0669	03/31/91	0001	NA	U			0.68		0.05	-
	0669	08/24/91	0001	NA	U			0.27		0.05	-
	0670	12/15/90	0001	NA	U		<	1.		1.	-
	0670	04/01/91	0001	NA	U			0.58		0.05	-
	0670	08/24/91	0001	NA	U			0.97		0.05	-
	0688	02/19/88	0001	NA	U			0.7	c	0.7	-
	0688	12/15/90	0001	NA	U			1.		1.	-
	0688	03/28/91	0001	NA	U			0.38		0.05	-
	0688	08/08/91	0001	NA	U			0.73		0.05	-
PH	0669	06/30/86	0001	NA	U	SU		8.85		-	-
	0669	10/14/87	0001	NA	U			7.80		-	-
	0669	02/19/88	0001	NA	U			8.24		-	-
	0669	12/15/90	0001	NA	U			8.62		-	-
	0669	03/31/91	0001	NA	U			7.68		-	-
	0669	08/24/91	0001	NA	U			7.52		-	-
	0669	11/19/91	0001	NA	U			7.92		-	-
	0669	10/12/92	0001	NA	U			7.86		-	-
	0670	07/19/86	0001	NA	U			7.32		-	-
	0670	10/15/87	0001	NA	U			7.13		-	-
	0670	02/19/88	0001	NA	U			8.19		-	-
	0670	12/15/90	0001	NA	U			7.57		-	-
	0670	04/01/91	0001	NA	U			7.44		-	-
	0670	08/24/91	0001	NA	U			7.41		-	-
	0670	12/05/91	0001	NA	U			7.93		-	-
	0670	10/14/92	0001	NA	U			8.89		-	-
	0688	07/17/86	0001	NA	U			7.1		-	-
	0688	04/08/87	0001	NA	U			7.01		-	-
	0688	10/14/87	0001	NA	U			6.98		-	-
	0688	02/19/88	0001	NA	U			7.20		-	-
	0688	12/15/90	0001	NA	U			7.32		-	-
	0688	03/28/91	0001	NA	U			7.27		-	-
	0688	08/08/91	0001	NA	U			7.37		-	-
	0688	12/05/91	0001	NA	U			7.24		-	-
	0688	10/07/92	0001	NA	U			7.29		-	-
PHOSPHATE	0669	10/14/87	0001	NA	U	MG/L	<	0.1		0.1	-
	0669	12/15/90	0001	NA	U		<	0.1		0.1	-
	0669	03/31/91	0001	NA	U		<	0.1		0.1	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

131

140 22.2
6/15/93

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PHOSPHATE	0669	08/24/91	0001	NA	U	MG/L	<	0.1		0.1	-
	0669	11/19/91	0001	NA	U			0.2		0.1	-
	0669	10/12/92	0001	NA	U			0.2	J	0.1	-
	0670	10/15/87	0001	NA	U		<	0.1		0.1	-
	0670	12/15/90	0001	NA	U		<	0.1		0.1	-
	0670	04/01/91	0001	NA	U		<	0.1		0.1	-
	0670	08/24/91	0001	NA	U		<	0.1		0.1	-
	0670	11/20/91	0001	NA	U			0.1		0.1	-
	0670	10/14/92	0001	NA	U		<	0.1	J	0.1	-
	0688	04/08/87	0001	NA	U		<	0.1		0.1	-
	0688	10/14/87	0001	NA	U		<	0.1		0.1	-
	0688	12/15/90	0001	NA	U		<	0.1		0.1	-
	0688	03/28/91	0001	NA	U		<	0.1		0.1	-
	0688	08/08/91	0001	NA	U		<	0.1		0.1	-
	0688	12/06/91	0001	NA	U		<	0.01		0.01	-
	0688	10/07/92	0001	NA	U		<	0.1	J	0.1	-
POLONIUM-210	0669	08/24/91	0001	NA	U	PCI/L		0.1		1.	0.5
	0669	11/19/91	0001	NA	U			0.2		1.	0.8
	0670	08/24/91	0001	NA	U			0.2		1.	0.5
	0670	12/05/91	0001	NA	U			0.0		1.	0.3
	0688	08/08/91	0001	NA	U			0.4		1.	0.4
	0688	12/05/91	0001	NA	U			0.2		1.	0.8
POTASSIUM	0669	06/30/86	0001	NA	U	MG/L		16.3		0.01	-
	0669	10/14/87	0001	NA	U			13.8		0.01	-
	0669	02/19/88	0001	NA	U			14.0		0.01	-
	0669	12/15/90	0001	NA	U			11.2		0.01	-
	0669	03/31/91	0001	NA	U			14.		5.	-
	0669	08/24/91	0001	NA	U			16.		5.	-
	0669	11/19/91	0001	NA	U			13.		5.	-
	0669	10/12/92	0001	NA	U			12.		5.	-
	0670	07/19/86	0001	NA	U			14.2		0.01	-
	0670	10/15/87	0001	NA	U			21.		0.01	-
	0670	12/15/90	0001	NA	U			13.5		0.01	-
	0670	04/01/91	0001	NA	U			14.		5.	-
	0670	08/24/91	0001	NA	U			23.		5.	-
	0670	10/14/92	0001	NA	U			47.		5.	-
	0688	07/17/86	0001	NA	U			5.65		0.01	-
	0688	04/08/87	0001	NA	U			4.61		0.01	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE

132

141 20.
6/15/93

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
POTASSIUM	0688	10/14/87	0001	NA	U	MG/L		4.7		0.01	-
	0688	02/19/88	0001	NA	U			4.98		0.01	-
	0688	12/15/90	0001	NA	U			5.9		0.01	-
	0688	03/28/91	0001	NA	U			5.3		0.01	-
	0688	08/08/91	0001	NA	U			5.1		0.01	-
	0688	12/06/91	0001	NA	U			5.20		0.01	-
	0688	10/07/92	0001	NA	U			5.35		0.01	-
RADIUM-226	0669	10/14/87	0001	NA	U	PCI/L		0.8		1.	0.3
	0669	02/19/88	0001	NA	U			0.5	c	0.8	0.3
	0669	12/15/90	0001	NA	U			0.8		1.	0.4
	0669	03/31/91	0001	NA	U			0.9		1.	0.3
	0669	08/24/91	0001	NA	U			0.6		1.	0.3
	0669	11/19/91	0001	NA	U			0.7		1.	0.4
	0669	10/12/92	0001	NA	U			0.7		0.8	0.6
	0670	10/15/87	0001	NA	U			0.9		1.	0.2
	0670	12/15/90	0001	NA	U			0.5	c	0.8	0.3
	0670	04/01/91	0001	NA	U			0.6		1.	0.3
	0670	08/24/91	0001	NA	U			0.7		1.	0.3
	0670	12/05/91	0001	NA	U			1.0		1.	0.4
	0670	10/14/92	0001	NA	U			0.3		0.8	0.5
	0688	10/14/87	0001	NA	U			0.2	c	0.4	0.2
	0688	02/19/88	0001	NA	U			0.2	c	0.4	0.2
	0688	12/15/90	0001	NA	U			0.1	c	0.2	0.1
	0688	03/28/91	0001	NA	U			0.0		1.	0.1
	0688	08/08/91	0001	NA	U			0.1		1.	0.2
	0688	12/05/91	0001	NA	U			0.0		1.	0.1
	0688	10/07/92	0001	NA	U			0.0		2.8	1.3
RADIUM-226 + RADIUM-228	0669	10/14/87	0001	NA	U	PCI/L		0.90		-	-
	0669	12/15/90	0001	NA	U			2.40		-	-
	0669	03/31/91	0001	NA	U			8.30		-	-
	0669	08/24/91	0001	NA	U			0.60		-	-
	0669	11/19/91	0001	NA	U			0.70		-	-
	0669	10/12/92	0001	NA	U			1.10		-	-
	0670	10/15/87	0001	NA	U			1.70		-	-
	0670	12/15/90	0001	NA	U			2.20		-	-
	0670	04/01/91	0001	NA	U			4.10		-	-
	0670	08/24/91	0001	NA	U			3.10		-	-
	0670	12/05/91	0001	NA	U			2.80		-	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

133

142 J.J.
6/15/93

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
RADIUM-226 + RADIUM-228	0670	10/14/92	0001	NA	U	PCI/L		1.40		-	-
	0688	10/14/87	0001	NA	U			1.10		-	-
	0688	12/15/90	0001	NA	U			1.00		-	-
	0688	03/28/91	0001	NA	U			1.40		-	-
	0688	08/08/91	0001	NA	U			3.30		-	-
	0688	12/05/91	0001	NA	U			0.00		-	-
	0688	10/07/92	0001	NA	U			1.00		-	-
RADIUM-228	0669	10/14/87	0001	NA	U	PCI/L		0.1		1.	0.9
	0669	12/15/90	0001	NA	U			1.6		1.	0.9
	0669	03/31/91	0001	NA	U			7.4		1.	1.5
	0669	08/24/91	0001	NA	U			0.0		1.	2.0
	0669	11/19/91	0001	NA	U			0.0		1.	1.1
	0669	10/12/92	0001	NA	U			0.4		2.7	1.6
	0670	10/15/87	0001	NA	U			0.8		1.	1.2
	0670	12/15/90	0001	NA	U			1.7		1.	0.9
	0670	04/01/91	0001	NA	U			3.5		1.	1.3
	0670	08/24/91	0001	NA	U			2.4		1.	2.2
	0670	12/05/91	0001	NA	U			1.8		1.	1.0
	0670	10/14/92	0001	NA	U			1.1	N	2.6	1.6
	0688	10/14/87	0001	NA	U			0.9		1.	1.2
	0688	12/15/90	0001	NA	U			0.9		1.	0.9
	0688	03/28/91	0001	NA	U			1.4		1.	1.3
	0688	08/08/91	0001	NA	U			3.2		1.	1.9
	0688	12/05/91	0001	NA	U			0.0		1.	1.0
	0688	10/07/92	0001	NA	U			1.0		2.5	1.6
REDOX POTENTIAL	0669	12/15/90	0001	NA	U	mVOLTS		285.5		-	-
	0669	10/12/92	0001	NA	U			438.5		-	-
	0670	12/15/90	0001	NA	U			189.		-	-
	0670	10/14/92	0001	NA	U			437.9		-	-
	0688	12/15/90	0001	NA	U			400.		-	-
	0688	10/07/92	0001	NA	U			431.5		-	-
SELENIUM	0669	06/30/86	0001	NA	U	MG/L		< 0.005		0.005	-
	0669	10/14/87	0001	NA	U			< 0.005		0.005	-
	0669	12/15/90	0001	NA	U			< 0.005		0.005	-
	0669	03/31/91	0001	NA	U			< 0.03	I	0.03	-
	0669	08/24/91	0001	NA	U			< 0.005		0.005	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS

134

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SELENIUM	0669	11/19/91	0001	NA	U	MG/L	<	0.005		0.005	-
	0669	10/12/92	0001	NA	U		<	0.006		0.005	-
	0670	07/19/86	0001	NA	U		<	0.005		0.005	-
	0670	10/15/87	0001	NA	U		<	0.005		0.005	-
	0670	12/15/90	0001	NA	U		<	0.005		0.005	-
	0670	04/01/91	0001	NA	U		<	0.03	I	0.03	-
	0670	08/24/91	0001	NA	U		<	0.005		0.005	-
	0670	10/14/92	0001	NA	U		<	0.005		0.005	-
	0688	07/17/86	0001	NA	U		<	0.005		0.005	-
	0688	04/08/87	0001	NA	U		<	0.002		0.005	-
	0688	10/14/87	0001	NA	U		<	0.005		0.005	-
	0688	12/15/90	0001	NA	U		<	0.005		0.005	-
	0688	03/28/91	0001	NA	U		<	0.005		0.005	-
	0688	08/08/91	0001	NA	U		<	0.005		0.005	-
	0688	12/06/91	0001	NA	U		<	0.005		0.005	-
	0688	10/07/92	0001	NA	U		<	0.005		0.005	-
SILICA - SiO2	0669	10/14/87	0001	NA	U	MG/L		11.8		2.	-
	0669	02/19/88	0001	NA	U			10.2		2.	-
	0669	12/15/90	0001	NA	U			13.		2.	-
	0669	03/31/91	0001	NA	U			11.0		0.1	-
	0669	08/24/91	0001	NA	U			12.2		0.1	-
	0669	11/19/91	0001	NA	U			12.1		0.1	-
	0669	10/12/92	0001	NA	U			14.8		0.1	-
	0670	10/15/87	0001	NA	U			8.9		2.	-
	0670	12/15/90	0001	NA	U			10.		2.	-
	0670	04/01/91	0001	NA	U			8.2		0.1	-
	0670	08/24/91	0001	NA	U			9.6		0.1	-
	0670	10/14/92	0001	NA	U			5.9		0.1	-
	0688	04/08/87	0001	NA	U			12.6		2.	-
	0688	10/14/87	0001	NA	U			11.1		2.	-
	0688	02/19/88	0001	NA	U			9.3		2.	-
	0688	12/15/90	0001	NA	U			11.		2.	-
	0688	03/28/91	0001	NA	U			9.8		0.1	-
	0688	08/08/91	0001	NA	U			10.8		0.1	-
	0688	12/06/91	0001	NA	U			9.6		0.1	-
	0688	10/07/92	0001	NA	U			11.1		0.1	-
SILVER	0669	10/14/87	0001	NA	U	MG/L	<	0.01		0.01	-
	0669	12/15/90	0001	NA	U		<	0.01		0.01	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

135

145 J.D.
6/15/93

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SPECIFIC CONDUCTANCE	0669	12/15/90	0001	NA	U	UMHO/CM		351.		-	-
	0669	08/24/91	0001	NA	U			542		-	-
	0669	11/19/91	0001	NA	U			510		-	-
	0669	10/12/92	0001	NA	U			378		-	-
	0670	07/19/86	0001	NA	U			320.		-	-
	0670	10/15/87	0001	NA	U			280.		-	-
	0670	02/19/88	0001	NA	U			360.		-	-
	0670	12/15/90	0001	NA	U			557.		-	-
	0670	08/24/91	0001	NA	U			546		-	-
	0670	12/05/91	0001	NA	U			560		-	-
	0670	10/14/92	0001	NA	U			375		-	-
	0688	07/17/86	0001	NA	U			475.		-	-
	0688	04/08/87	0001	NA	U			390.		-	-
	0688	10/14/87	0001	NA	U			352.		-	-
	0688	02/19/88	0001	NA	U			510.		-	-
	0688	12/15/90	0001	NA	U			713.		-	-
	0688	08/08/91	0001	NA	U			696		-	-
	0688	12/05/91	0001	NA	U			699		-	-
	0688	10/07/92	0001	NA	U			536		-	-
STRONTIUM	0669	12/15/90	0001	NA	U	MG/L		0.9		0.1	-
	0669	03/31/91	0001	NA	U			1.40		0.01	-
	0669	08/24/91	0001	NA	U			1.48		0.01	-
	0669	11/19/91	0001	NA	U			1.48		0.01	-
	0669	10/12/92	0001	NA	U			1.13		0.01	-
	0670	12/15/90	0001	NA	U			1.6		0.1	-
	0670	04/01/91	0001	NA	U			1.54		0.01	-
	0670	08/24/91	0001	NA	U			1.77		0.01	-
	0670	10/14/92	0001	NA	U			0.66		0.01	-
	0688	12/15/90	0001	NA	U			0.7		0.1	-
	0688	03/28/91	0001	NA	U			0.72		0.01	-
	0688	08/08/91	0001	NA	U			0.72		0.01	-
	0688	12/06/91	0001	NA	U			0.65		0.01	-
	0688	10/07/92	0001	NA	U			0.70		0.01	-
SULFATE	0669	06/30/86	0001	NA	U	MG/L		19.3		0.1	-
	0669	10/14/87	0001	NA	U			23.		0.1	-
	0669	02/19/88	0001	NA	U			29.		0.1	-
	0669	12/15/90	0001	NA	U			20.2		0.1	-
	0669	03/31/91	0001	NA	U			24.4		0.1	-
	0669	08/24/91	0001	NA	U			33.		10.	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRAIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

137

146 DJL
6/15/93

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SULFATE	0669	11/19/91	0001	NA	U	MG/L	28.		10.	-
	0669	10/12/92	0001	NA	U		24.		10.	-
	0670	07/19/86	0001	NA	U		16.5		0.1	-
	0670	10/15/87	0001	NA	U		22.		0.1	-
	0670	12/15/90	0001	NA	U		12.3		0.1	-
	0670	04/01/91	0001	NA	U		15.8		0.1	-
	0670	08/24/91	0001	NA	U		17.		10.	-
	0670	11/20/91	0001	NA	U		20.		10.	-
	0670	10/14/92	0001	NA	U		16.		1.	-
	0688	07/17/86	0001	NA	U		36.3		0.1	-
	0688	04/08/87	0001	NA	U		22.9		0.1	-
	0688	10/14/87	0001	NA	U		43.		0.1	-
	0688	02/19/88	0001	NA	U		37.		0.1	-
	0688	12/15/90	0001	NA	U		24.3		0.1	-
	0688	03/28/91	0001	NA	U		39.7		0.1	-
	0688	08/08/91	0001	NA	U		58.		0.1	-
	0688	12/06/91	0001	NA	U		100.		10.	-
	0688	10/07/92	0001	NA	U		35.		5.	-
SULFIDE	0669	06/30/86	0001	NA	U	MG/L	< 0.1		0.1	-
	0669	12/15/90	0001	NA	U		< 0.1		0.1	-
	0669	03/31/91	0001	NA	U		6.7		0.1	-
	0669	08/24/91	0001	NA	U		0.6		0.1	-
	0669	11/19/91	0001	NA	U		0.3		0.1	-
	0669	10/12/92	0001	NA	U		< 0.1		0.1	-
	0670	07/19/86	0001	NA	U		< 0.1		0.1	-
	0670	12/15/90	0001	NA	U		< 0.1		0.1	-
	0670	04/01/91	0001	NA	U		5.8		0.1	-
	0670	08/24/91	0001	NA	U		0.3		0.1	-
	0670	11/20/91	0001	NA	U		0.3		0.1	-
	0670	10/14/92	0001	NA	U		< 0.1		0.1	-
	0688	07/17/86	0001	NA	U		< 0.1		0.1	-
	0688	12/15/90	0001	NA	U		< 0.1		0.1	-
	0688	03/28/91	0001	NA	U		5.03		0.1	-
	0688	08/08/91	0001	NA	U		0.6		0.1	-
	0688	12/06/91	0001	NA	U		0.1		0.1	-
	0688	10/07/92	0001	NA	U		0.8		0.1	-
TEMPERATURE	0669	06/30/86	0001	NA	U	C - DEGREE	13.5		-	-
	0669	10/14/87	0001	NA	U		15.0		-	-
	0669	02/19/88	0001	NA	U		12.0		-	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

138

147 J.R.
6/15/93

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TEMPERATURE	0669	12/15/90	0001	NA	U	C - DEGREE		11.5		-	-
	0669	03/31/91	0001	NA	U			12.3		-	-
	0669	08/24/91	0001	NA	U			14.2		-	-
	0669	11/19/91	0001	NA	U			11.9		-	-
	0669	10/12/92	0001	NA	U			14.5		-	-
	0670	07/19/86	0001	NA	U			13.		-	-
	0670	10/15/87	0001	NA	U			13.0		-	-
	0670	02/19/88	0001	NA	U			12.0		-	-
	0670	12/15/90	0001	NA	U			10.6		-	-
	0670	04/01/91	0001	NA	U			12.3		-	-
	0670	08/24/91	0001	NA	U			13.7		-	-
	0670	12/05/91	0001	NA	U			10.7		-	-
	0670	10/14/92	0001	NA	U			14.5		-	-
	0688	07/17/86	0001	NA	U			14.		-	-
	0688	04/08/87	0001	NA	U			13.0		-	-
	0688	10/14/87	0001	NA	U			14.2		-	-
	0688	02/19/88	0001	NA	U			13.		-	-
	0688	12/15/90	0001	NA	U			12.5		-	-
	0688	03/28/91	0001	NA	U			13.1		-	-
	0688	08/08/91	0001	NA	U			13.7		-	-
	0688	12/05/91	0001	NA	U			12.9		-	-
	0688	10/07/92	0001	NA	U			13.4		-	-
THALLIUM	0669	12/15/90	0001	NA	U	MG/L	<	0.01		0.01	-
	0669	03/31/91	0001	NA	U		<	0.01		0.01	-
	0669	08/24/91	0001	NA	U		<	0.01		0.01	-
	0669	11/19/91	0001	NA	U		<	0.01		0.01	-
	0669	10/12/92	0001	NA	U		<	0.005		0.005	-
	0670	12/15/90	0001	NA	U		<	0.01		0.01	-
	0670	04/01/91	0001	NA	U		<	0.01		0.01	-
	0670	08/24/91	0001	NA	U		<	0.01		0.01	-
	0670	10/14/92	0001	NA	U		<	0.005		0.005	-
	0688	12/15/90	0001	NA	U		<	0.01		0.01	-
	0688	03/28/91	0001	NA	U		<	0.01		0.01	-
	0688	08/08/91	0001	NA	U		<	0.01		0.01	-
	0688	12/06/91	0001	NA	U		<	0.01		0.01	-
	0688	10/07/92	0001	NA	U		<	0.005		0.005	-
THORIUM-230	0669	08/24/91	0001	NA	U	PCI/L		0.8		1.	0.9
	0669	11/19/91	0001	NA	U			0.4		1.	0.5
	0670	08/24/91	0001	NA	U			0.0		1.	0.4

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

139

148 22
6/15/93

TABLE 7. ON-SITE AND DOWNGRAIDENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
THORIUM-230	0670	12/05/91	0001	NA	U	PCI/L	0.3		1.	0.5
	0688	08/08/91	0001	NA	U		0.5		1.	0.4
	0688	12/05/91	0001	NA	U		0.7		1.	0.5
TIN	0669	12/15/90	0001	NA	U	MG/L	< 0.005		0.005	-
	0669	03/31/91	0001	NA	U		< 0.005		0.005	-
	0669	08/24/91	0001	NA	U		< 0.005		0.005	-
	0669	11/19/91	0001	NA	U		< 0.005		0.005	-
	0669	10/12/92	0001	NA	U		< 0.005		0.005	-
	0670	12/15/90	0001	NA	U		< 0.005		0.005	-
	0670	04/01/91	0001	NA	U		< 0.005		0.005	-
	0670	08/24/91	0001	NA	U		< 0.005		0.005	-
	0670	10/14/92	0001	NA	U		< 0.005		0.005	-
	0688	12/15/90	0001	NA	U		< 0.005		0.005	-
	0688	03/28/91	0001	NA	U		< 0.005		0.005	-
	0688	08/08/91	0001	NA	U		< 0.005		0.005	-
	0688	12/06/91	0001	NA	U		< 0.005		0.005	-
	0688	10/07/92	0001	NA	U		< 0.005		0.005	-
TOTAL DISSOLVED SOLIDS	0669	06/30/86	0001	NA	U	MG/L	288.		10.	-
	0669	10/14/87	0001	NA	U		273.		10.	-
	0669	02/19/88	0001	NA	U		222.		10.	-
	0669	12/15/90	0001	NA	U		280.		10.	-
	0669	03/31/91	0001	NA	U		273.		10.	-
	0669	08/24/91	0001	NA	U		291.		10.	-
	0669	11/19/91	0001	NA	U		288.		10.	-
	0669	10/12/92	0001	NA	U		243.		10.	-
	0670	07/19/86	0001	NA	U		322.		10.	-
	0670	10/15/87	0001	NA	U		313.		10.	-
	0670	12/15/90	0001	NA	U		296.		10.	-
	0670	04/01/91	0001	NA	U		293.		10.	-
	0670	08/24/91	0001	NA	U		318.		10.	-
	0670	11/20/91	0001	NA	U		307.		10.	-
	0670	10/14/92	0001	NA	U		262.		10.	-
	0688	07/17/86	0001	NA	U		409.		10.	-
	0688	04/08/87	0001	NA	U		377.		10.	-
	0688	10/14/87	0001	NA	U		421.		10.	-
	0688	02/19/88	0001	NA	U		377.		10.	-
	0688	12/15/90	0001	NA	U		396.		10.	-
	0688	03/28/91	0001	NA	U		389.		10.	-
	0688	08/08/91	0001	NA	U		389.		10.	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (<.45 MICRONS)

140

149 2.2
6/15/93

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL DISSOLVED SOLIDS	0688	12/06/91	0001	NA	U	MG/L		1760.		10.	-
	0688	10/07/92	0001	NA	U			379.		10.	-
TOTAL KJELDAHL NITROGEN	0669	12/15/90	0001	NA	U	MG/L		< 1.		1.	-
	0669	03/31/91	0001	NA	U			1.		1.	-
	0669	08/24/91	0001	NA	U			< 1.		1.	-
	0669	11/19/91	0001	NA	U			< 2.	I	2.	-
	0670	12/15/90	0001	NA	U			< 1.		1.	-
	0670	04/01/91	0001	NA	U			1.		1.	-
	0670	08/24/91	0001	NA	U			1.		1.	-
	0670	11/20/91	0001	NA	U			< 2.	I	2.	-
	0688	12/15/90	0001	NA	U			< 1.		1.	-
	0688	03/28/91	0001	NA	U			< 1.		1.	-
	0688	08/08/91	0001	NA	U			1.		1.	-
	0688	12/06/91	0001	NA	U			< 2.	I	2.	-
TOTAL ORGANIC CARBON	0669	12/15/90	0001	NA	U	MG/L		59.		1.	-
	0669	03/31/91	0001	NA	U			< 1.		1.	-
	0669	08/24/91	0001	NA	U			< 1.		1.	-
	0669	11/19/91	0001	NA	U			< 1.		1.	-
	0669	10/12/92	0001	NA	U			2.		1.	-
	0670	12/15/90	0001	NA	U			42.		1.	-
	0670	04/01/91	0001	NA	U			< 1.		1.	-
	0670	08/24/91	0001	NA	U			< 1.		1.	-
	0670	11/20/91	0001	NA	U			< 1.		1.	-
	0670	10/14/92	0001	NA	U			7.	J	1.	-
	0688	12/15/90	0001	NA	U			66.		1.	-
	0688	03/28/91	0001	NA	U			1.		1.	-
	0688	08/08/91	0001	NA	U			< 1.		1.	-
	0688	12/06/91	0001	NA	U			< 1.		1.	-
	0688	10/07/92	0001	NA	U			1.		1.	-
URANIUM	0669	06/30/86	0001	NA	U	MG/L		0.002	c	0.002	-
	0669	10/14/87	0001	NA	U			< 0.003		0.003	-
	0669	02/19/88	0001	NA	U			0.0010	c	0.001	-
	0669	12/15/90	0001	NA	U			< 0.0003		0.0003	-
	0669	03/31/91	0001	NA	U			< 0.001		0.001	-
	0669	08/24/91	0001	NA	U			< 0.001		0.001	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
J - ESTIMATED VALUE
c - CHANGED DETECTION LIMIT

141

150 2.2
6/15/92

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
URANIUM	0669	11/19/91	0001	NA	U	MG/L	<	0.001		0.001	-
	0669	10/12/92	0001	NA	U			0.002		0.001	-
	0670	07/19/86	0001	NA	U			0.0015	c	0.0015	-
	0670	10/15/87	0001	NA	U		<	0.003		0.003	-
	0670	12/15/90	0001	NA	U			0.0007		0.0003	-
	0670	04/01/91	0001	NA	U		<	0.001		0.001	-
	0670	08/24/91	0001	NA	U		<	0.001		0.001	-
	0670	12/05/91	0001	NA	U			0.002		0.001	-
	0670	10/14/92	0001	NA	U		<	0.001		0.001	-
	0688	07/17/86	0001	NA	U			0.0083		0.003	-
	0688	04/08/87	0001	NA	U			0.0088		0.003	-
	0688	10/14/87	0001	NA	U			0.10		0.003	-
	0688	02/19/88	0001	NA	U			0.0109		0.003	-
	0688	12/15/90	0001	NA	U			0.0071		0.0003	-
	0688	03/28/91	0001	NA	U			0.006		0.001	-
	0688	08/08/91	0001	NA	U			0.009		0.001	-
	0688	12/05/91	0001	NA	U			0.007		0.001	-
	0688	10/07/92	0001	NA	U			0.011		0.001	-
VANADIUM	0669	06/30/86	0001	NA	U	MG/L		0.43		0.01	-
	0669	10/14/87	0001	NA	U		<	0.01		0.01	-
	0669	12/15/90	0001	NA	U			0.01		0.01	-
	0669	03/31/91	0001	NA	U		<	0.01		0.01	-
	0669	08/24/91	0001	NA	U		<	0.01		0.01	-
	0669	11/19/91	0001	NA	U		<	0.01		0.01	-
	0669	10/12/92	0001	NA	U		<	0.01		0.01	-
	0670	07/19/86	0001	NA	U			0.34		0.01	-
	0670	10/15/87	0001	NA	U		<	0.01		0.01	-
	0670	12/15/90	0001	NA	U		<	0.01		0.01	-
	0670	04/01/91	0001	NA	U		<	0.01		0.01	-
	0670	08/24/91	0001	NA	U		<	0.01		0.01	-
	0670	10/14/92	0001	NA	U		<	0.01		0.01	-
	0688	07/17/86	0001	NA	U			0.33		0.01	-
	0688	04/08/87	0001	NA	U		<	0.2	c	0.2	-
	0688	10/14/87	0001	NA	U			0.01		0.01	-
	0688	12/15/90	0001	NA	U		<	0.01		0.01	-
	0688	03/28/91	0001	NA	U		<	0.01		0.01	-
	0688	08/08/91	0001	NA	U		<	0.01		0.01	-
	0688	12/06/91	0001	NA	U		<	0.01		0.01	-
	0688	10/07/92	0001	NA	U		<	0.01		0.01	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

142

151 D.R.
6/15/92

TABLE 7. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY DATA BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ZINC	0669	10/14/87	0001	NA	U	MG/L	<	0.005		0.005	-
	0669	12/15/90	0001	NA	U		<	0.005		0.005	-
	0669	03/31/91	0001	NA	U		<	0.005		0.005	-
	0669	08/24/91	0001	NA	U			0.011		0.005	-
	0669	11/19/91	0001	NA	U		<	0.005		0.005	-
	0669	10/12/92	0001	NA	U		<	0.005		0.005	-
	0670	10/15/87	0001	NA	U			0.034		0.005	-
	0670	12/15/90	0001	NA	U		<	0.005		0.005	-
	0670	04/01/91	0001	NA	U		<	0.005		0.005	-
	0670	08/24/91	0001	NA	U		<	0.005		0.005	-
	0670	10/14/92	0001	NA	U			0.036		0.005	-
	0688	04/08/87	0001	NA	U			0.016		0.005	-
	0688	10/14/87	0001	NA	U		<	0.005		0.005	-
	0688	12/15/90	0001	NA	U		<	0.005		0.005	-
	0688	03/28/91	0001	NA	U		<	0.03	I	0.03	-
	0688	08/08/91	0001	NA	U		<	0.005		0.005	-
	0688	12/06/91	0001	NA	U		<	0.005		0.005	-
	0688	10/07/92	0001	NA	U			0.011		0.005	-

FORMATION OF COMPLETION CODE:
NA - NAVAJO SANDSTONE

FLOW RELATIONSHIP CODE:
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

DATA FILE NAME: M:\DART\SRK01\GWQ10029.DAT

143

152 J.L.
6/15/93

TABLE 8. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME					UNITS	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	MINIMUM				MAXIMUM *			
ALKALINITY					MG/L CaCO3	42.4295	0.1574	0.0	247.8895	291.1939	NORMAL	
24	185.0000	355.0000	+ 271.5000	269.5417								
ALUMINUM					MG/L	NA	NA	73.9	** 0.0500	0.1000	NONPARAMETRIC	2
23	** 0.0500	0.4000	0.0500	NA								
AMMONIUM					MG/L	NA	NA	57.1	** 0.1000	0.2000	NONPARAMETRIC	2
21	** 0.1000	1.7000	** 0.1000	NA								
ANTIMONY					MG/L	NA	NA	93.3	** 0.0030	** 0.0030	NONPARAMETRIC	2
15	** 0.0030	0.0090	** 0.0030	NA								
ARSENIC					MG/L	NA	NA	52.4	0.0050	0.0130	NONPARAMETRIC	2
21	** 0.0050	0.0250	0.0050	NA								
BARIUM					MG/L	0.0475	0.3316	0.0	0.1146	0.1721	NORMAL	
18	0.0600	0.2000	+ 0.1500	0.1433								
BERYLLIUM					MG/L	NA	NA	100.0	** 0.0050	0.0050	NONPARAMETRIC	2
11	** 0.0050	0.0050	** 0.0050	NA								
BORON					MG/L	0.1690	0.5620	0.0	0.1810	0.4204	NORMAL	
14	0.1000	0.5500	+ 0.3000	0.3007								
BROMIDE					MG/L	NA	NA	86.7	** 0.1000	0.1000	NONPARAMETRIC	2
15	** 0.1000	3.1000	** 0.1000	NA								
CADMIUM					MG/L	NA	NA	100.0	** 0.0010	** 0.0010	NONPARAMETRIC	2
18	** 0.0010	0.0025	** 0.0010	NA								

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

144

TABLE 8. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME					UNITS	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN		MINIMUM					MAXIMUM *			
CALCIUM					MG/L								
23	6.6000	68.0000	42.0000		44.9087	15.4879	0.3449	0.0	36.8092	53.0081	NORMAL		
CHLORIDE					MG/L								
24	4.0000	660.0000 +	9.4500		13.1170	3.1063	NA	0.0	7.3559	23.3900	LOGNORMAL	7,8	
CHROMIUM					MG/L								
18	** 0.0100	** 0.0100	** 0.0100		NA	NA	NA	100.0	** 0.0100	** 0.0100	NONPARAMETRIC	2	
COBALT					MG/L								
11	** 0.0300	** 0.0300	** 0.0300		NA	NA	NA	100.0	** 0.0300	** 0.0300	NONPARAMETRIC	2	
COPPER					MG/L								
18	** 0.0100	0.0100	** 0.0100		NA	NA	NA	100.0	** 0.0100	0.0100	NONPARAMETRIC	2	
CYANIDE					MG/L								
12	** 0.0100	** 0.0100	** 0.0100		NA	NA	NA	100.0	** 0.0100	** 0.0100	NONPARAMETRIC	2	
DISSOLVED OXYGEN					MG/L								
2	1.1000	5.4000 +	3.2500		NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
FIELD FE (2+)					MG/L								
1	0.0300	0.0300	0.0300		NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
FLUORIDE					MG/L								
21	0.2000	1.4000	1.0000		0.8433	0.3403	0.4036	0.0	0.6556	1.0311	NORMAL		

145

154 AD.
6/15/93

TABLE 8. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME					UNITS					STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION	FOOT
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	MINIMUM	MAXIMUM *	TYPE	NOTE	
GROSS ALPHA					PCI/L								
15	** 1.0000	425.0000	3.2000	NA		NA	NA	6.7	** 1.0000	7.7000	NONPARAMETRIC	9	
GROSS BETA					PCI/L								
15	** 0.5000	51.5000	11.9000	NA		NA	NA	0.0	5.6000	17.0000	NONPARAMETRIC	9	
IRON					MG/L								
23	** 0.0200	0.7400	** 0.0200	NA		NA	NA	56.5	** 0.0200	0.0500	NONPARAMETRIC	2	
LEAD					MG/L								
18	** 0.0030	0.0100	** 0.0030	NA		NA	NA	100.0	** 0.0030	0.0050	NONPARAMETRIC	2	
LEAD-210					PCI/L								
6	** 1.5000	** 1.5000	** 1.5000	NA		NA	NA	0.0	** 1.5000	** 1.5000	NONPARAMETRIC	9,6	
MAGNESIUM					MG/L								
23	16.7000	41.1000	35.0000	32.6043		7.1242	0.2185	0.0	28.8787	36.3300	NORMAL		
MANGANESE					MG/L								
23	** 0.0100	0.1800	0.0200	NA		NA	NA	39.1	** 0.0100	0.0700	NONPARAMETRIC	2	
MERCURY					MG/L								
15	** 0.0002	** 0.0002	** 0.0002	NA		NA	NA	100.0	** 0.0002	** 0.0002	NONPARAMETRIC	2	
MOLYBDENUM					MG/L								
23	** 0.0100	0.1700	** 0.0100	NA		NA	NA	56.5	** 0.0100	0.0200	NONPARAMETRIC	2	
NET GROSS ALPHA ***					PCI/L								
15	-4.8000	424.6600	1.9600	NA		NA	NA	0.0	-1.7500	6.6300	NONPARAMETRIC	9	

*** NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

** The reported value is the minimum detection limit of the data set

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

6) The stat. range is the 96.9% confidence interval due to a sample size of 6. The maximum is the 98.5% one sided confidence int.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

146

125 J.R.
6/15/93

TABLE 8. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME					UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	MINIMUM					MAXIMUM *			
NICKEL					MG/L								
20	0.0100	0.0250	+	0.0200	NA	NA	NA	90.0	0.0200	0.0200	NONPARAMETRIC	2	
NITRATE					MG/L								
24	0.4000	7.9000	+	1.0000	NA	NA	NA	33.3	0.5000	2.5000	NONPARAMETRIC	2	
NITRITE AND NITRATE					MG/L								
11	0.2700	1.0000		0.5800	NA	NA	NA	18.2	0.3800	0.9700	NONPARAMETRIC	2	
PH					SU								
25	6.9800	8.8900		7.4400	NA	NA	NA	0.0	NA	NA	UNKNOWN		
PHOSPHATE					MG/L								
19	** 0.0100	0.2000		0.0500	NA	NA	NA	84.2	0.0500	0.0500	NONPARAMETRIC	2	
POLONIUM-210					PCI/L								
6	** 1.0000	** 1.0000	** 1.0000		NA	NA	NA	0.0	** 1.0000	** 1.0000	NONPARAMETRIC	9,6	
POTASSIUM					MG/L								
23	4.6100	47.0000		13.0000	12.5996	9.2806	0.7366	0.0	7.7462	17.4529	NORMAL		
RADIUM-226					PCI/L								
20	** 0.2000	1.0000	+	0.5500	NA	NA	NA	0.0	** 0.2000	0.8000	NONPARAMETRIC	9	
RADIUM-226 + RADIUM-228					PCI/L								
18	0.0000	8.3000	+	1.4000	NA	NA	NA	0.0	0.9000	3.1000	NONPARAMETRIC	9	

- ** The reported value is the minimum detection limit of the data set
+ The sample size is even, so the median value is the arithmetic average of the two middle values
* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$
1) A minimum of 4 samples must be available for the statistical analysis.
2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.
6) The stat. range is the 96.9% confidence interval due to a sample size of 6. The maximum is the 98.5% one sided confidence int.
9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

147

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6/15/93

TABLE 8. ON-SITE AND DOWNGRAIDENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICKROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME					UNITS								
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE		
RADIUM-228					PCI/L								
18	** 1.0000	7.4000	+ 1.0500	NA	NA	NA	0.0	** 1.0000	2.4000	NONPARAMETRIC	9		
REDOX POTENTIAL					mVOLTS								
6	189.0000	438.5000	+ 415.7500	363.7333	103.5862	0.2848	0.0	221.4312	506.0355	NORMAL			
SELENIUM					MG/L								
21	** 0.0050	0.0150	** 0.0050	NA	NA	NA	95.2	** 0.0050	** 0.0050	NONPARAMETRIC	2		
SILICA - SiO2					MG/L								
20	5.9000	14.8000	+ 10.9000	10.6500	1.9201	0.1803	0.0	9.5599	11.7401	NORMAL			
SILVER					MG/L								
15	** 0.0100	** 0.0100	** 0.0100	NA	NA	NA	100.0	** 0.0100	** 0.0100	NONPARAMETRIC	2		
SODIUM					MG/L								
23	9.3800	52.1000	17.0000	23.0513	11.1067	0.4818	0.0	17.2430	28.8596	NORMAL			
SPECIFIC CONDUCTANCE					UMHO/CM								
22	250.0000	713.0000	+ 432.5000	453.6364	142.8551	0.3149	0.0	376.9461	530.3266	NORMAL			
STRONTIUM					MG/L								
14	0.6500	1.7700	+ 1.0150	1.1036	0.4222	0.3825	0.0	0.8046	1.4026	NORMAL			
SULFATE					MG/L								
24	12.3000	100.0000	+ 24.1500	29.8625	18.3093	0.6131	0.0	20.5191	39.2059	NORMAL			
SULFIDE					MG/L								
18	** 0.1000	6.7000	+ 0.2000	NA	NA	NA	44.4	** 0.1000	0.8000	NONPARAMETRIC	2		

- ** The reported value is the minimum detection limit of the data set
+ The sample size is even, so the median value is the arithmetic average of the two middle values
• The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$
2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.
9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

148

157 JLD
6/15/93

TABLE 8. ON-SITE AND DOWNGRADIENT GROUNDWATER QUALITY STATISTICS BY
PARAMETER IN THE NAVAJO SANDSTONE, UC PROCESSING SITE, SLICK ROCK, CO.
SITE: SRK01 SLICK ROCK (BOTH SITES)
06/30/86 TO 10/14/92
REPORT DATE: 05/07/93

PARAMETER NAME				UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN					MINIMUM	MAXIMUM *		
TEMPERATURE				C - DEGREE								
25	10.6000	15.0000	13.0000	12.9800		1.1460	0.0883	0.0	12.4088	13.5512	NORMAL	
THALLIUM				MG/L								
14	** 0.0050	0.0050	+ 0.0050	NA		NA	NA	100.0	** 0.0050	0.0050	NONPARAMETRIC	2
THORIUM-230				PCI/L								
6	** 1.0000	** 1.0000	** 1.0000	NA		NA	NA	0.0	** 1.0000	** 1.0000	NONPARAMETRIC	9,6
TIH				MG/L								
14	** 0.0050	** 0.0050	** 0.0050	NA		NA	NA	100.0	** 0.0050	** 0.0050	NONPARAMETRIC	2
TOTAL DISSOLVED SOLIDS				MG/L								
24	222.0000	1760.0000	+ 310.0000	381.9167		298.8620	0.7825	0.0	229.4043	534.4291	NORMAL	
TOTAL KJELDAHL NITROGEN				MG/L								
12	** 1.0000	1.0000	+ 1.0000	NA		NA	NA	66.7	** 1.0000	1.0000	NONPARAMETRIC	2
TOTAL ORGANIC CARBON				MG/L								
15	** 1.0000	66.0000	** 1.0000	NA		NA	NA	53.3	** 1.0000	42.0000	NONPARAMETRIC	2
URANIUM				MG/L								
24	** 0.0003	0.1000	+ 0.0018	NA		NA	NA	37.5	0.0005	0.0083	NONPARAMETRIC	2
VANADIUM				MG/L								
21	** 0.0100	0.4300	** 0.0100	NA		NA	NA	76.2	** 0.0100	0.0100	NONPARAMETRIC	2
ZINC				MG/L								
18	** 0.0050	0.0360	** 0.0050	NA		NA	NA	72.2	** 0.0050	0.0150	NONPARAMETRIC	2

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

6) The stat. range is the 96.9% confidence interval due to a sample size of 6. The maximum is the 98.5% one sided confidence int.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

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Table 9 Maximum concentration of regulated constituents
for groundwater protection^a

Constituents with MCLs ^b	mg/l	Constituents with MCLs ^b	mg/l
Arsenic (As)	0.05	Carbon tetrachloride	0.005
Barium (Ba)	1.0	p- Dichlorobenzene (benzene,1,4 di)	0.075
Cadmium (Cd)	0.01	1,1- Dichloroethylene (ethene,1,1 di-)	0.007
Chromium (Cr)	0.05	Endrin	0.0002
Lead (Pb)	0.05	Ethylene dichloride	0.005
Mercury (Hg)	0.002	Lindane	0.004
Molybdenum (Mo)	0.1	Methoxychlor	0.1
Nitrate (NO ₃)	44.0	Methylchloroform	0.2
Selenium (Se)	0.01	Toxaphene	0.005
Silver (Ag)	0.05	2,4-D	0.1
Combined radium (Ra-226 and - 228)	5.0 ^c	2,4,5-TP	0.01
Combined uranium (U-234 and -238)	30.0 ^c	Trichlorethylene	0.005
Net gross alpha (excluding radon and uranium)	15.0 ^c	Vinyl chloride	0.002

151 26

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Table 9 Maximum concentration of regulated constituents for groundwater protection^a (Concluded)

Constituents without MCLs	Constituents without MCLs
Antimony (Sb) and compounds, NOS ^d	Nickel (Ni) and compounds, NOS ^d
Aluminum phosphide ^e	Strontium sulfide ^e
Beryllium (Be) and compounds, NOS ^d	Sulfide (S)
Calcium chromate ^e	Thallium (Th) and compounds, NOS ^d
Carbon disulfide ^e	Tin (Sn)
Carbon oxyfluoride ^e	Vanadium (V)
Copper (Cu)	Vanadic acid, ammonium salt ^e
Cobalt (Co)	Vanadium pentoxide ^e
Cyanides (CN), NOS ^{d,e,f}	Zinc (Zn)
	Zinc phosphide ^e

^aSummarized from draft final EPA groundwater standards, April 1989, 40 CFR 192.02.

^bMaximum concentration limits. Concentrations of these constituents shall not exceed background or the MCL limits, whichever is higher.

^cUnits are pCi/l.

^dNot otherwise specified. Members of compounds not specified in Appendix I.

^eAdded when Appendix I replaced Appendix IX of 40 CFR 264.

^fSoluble salts and complexes.

Table 10.1 Summary of selected constituents of on-site and downgradient groundwater samples in the Dolores River alluvium, UC processing site

Constituents with MCLs				
Parameter	Baseline Median	Baseline Stat Max	Background Stat Max ^b	MCL
Arsenic	0.01 ^g	0.01 ^g	0.01 ^g	0.05
Barium	0.10 ^g	0.10 ^g	0.10 ^g	1.00
Cadmium	0.001 ^g	0.001 ^g	0.001 ^g	0.01
Chromium	0.01 ^g	0.01 ^g	0.07 ^c	0.05
Net gross alpha ^f	6.13 ^c	48.79	5.08 ^h	15.00
Lead	0.01 ^g	0.01 ^g	0.01 ^g	0.05
Mercury	0.0002 ^g	0.0002 ^g	0.0002 ^g	0.002
Molybdenum	0.23 ^c	0.47	0.11 ^d	0.10
Nitrate	34.0 ^c	947.0	12.0 ^c	44.0
Radium-226,-228 ^f	1.50 ^c	2.10	2.33 ^d	5.0
Selenium	0.015 ^c	0.065	0.007 ^c	0.01
Silver	0.01 ^g	0.01 ^g	0.01 ^g	0.05
Uranium	0.068 ^d	0.088	0.033 ^d	0.044

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153
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Table 10.1 Summary of selected constituents of on-site and downgradient groundwater samples in the Dolores River alluvium, UC processing site (concluded)

Constituents without MCLs				
Parameter	Baseline Median	Baseline Stat Max	Background Stat. Max ^b	MCL
Antimony	0.003 ^g	0.003 ^g	0.003 ^g	None
Beryllium	0.01 ^g	0.01 ^g	0.01 ^{g,h}	None
Cobalt	0.05 ^g	0.05 ^g	0.05 ^{g,h}	None
Copper	0.02 ^g	0.02 ^g	0.03 ^c	None
Cyanide	0.01 ^g	0.01 ^g	0.01 ^{g,h}	None
Nickel	0.04 ^g	0.04 ^g	0.04 ^g	None
Sulfide	0.1 ^g	0.3 ^c	0.3 ^c	None
Thallium	0.01 ^g	0.015 ^c	0.01 ^g	None
Tin	0.005 ^g	0.025 ^c	0.025 ^c	None
Vanadium	0.01 ^g	0.33 ^c	0.24 ^c	None
Zinc	0.005 ^g	0.015 ^c	0.015 ^c	None

^aAll units are mg/l unless otherwise noted.

^bNC Processing site background groundwater statistical maximum.

^cLognormal distribution, mean is geometric.

^dNormal distribution, mean is arithmetic.

^eNonparametric distribution

^fUnits are pCi/l.

^gStatistical values are below laboratory detection limits in Table 8.1 of the Technical Approach Document (DOE, 1989).

^hValue is an observed maximum, rather than a statistical maximum, because less than four samples were available for statistical analysis.

Table 10.2 Summary of selected constituents of on-site and downgradient groundwater samples in the Dolores River alluvium, NC processing site

Constituents with MCLs				
Parameter	Baseline Median	Baseline Stat Max	Background Stat Max ^b	MCL
Arsenic	0.01 ^g	0.01 ^g	0.01 ^g	0.05
Barium	0.10 ^g	0.10 ^g	0.20 ^c	1.00
Cadmium	0.001 ^g	0.001 ^g	0.001 ^g	0.01
Chromium	0.01 ^g	0.01 ^g	0.04 ^c	0.05
Net gross alpha ^f	-81.69 ^c	123.86	4.72 ^c	15.00
Lead	0.01 ^g	0.01 ^g	0.01 ^g	0.05
Mercury	0.0002 ^g	0.0002 ^g	0.0002 ^g	0.002
Molybdenum	0.02 ^c	0.04	0.13 ^d	0.10
Nitrate	1.0 ^g	1.0 ^g	1.6 ^c	44.0
Radium-226,-228 ^f	2.31 ^d	3.69	7.80 ^c	5.0
Selenium	0.005 ^g	0.015 ^c	0.005 ^g	0.01
Silver	0.01 ^g	0.01 ^g	0.01 ^g	0.05
Uranium	2.647 ^d	3.183	0.048 ^d	0.044

154
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Table 10.2 Summary of selected constituents of on-site and downgradient groundwater samples in the Dolores River alluvium, NC processing site (concluded)

Constituents without MCLs				
Parameter	Baseline Median	Baseline Stat Max	Background Stat. Max ^b	MCL
Antimony	0.003 ^g	0.003 ^g	0.003 ^g	None
Beryllium	0.01 ^g	0.01 ^g	0.01 ^{g,h}	None
Cobalt	0.05 ^g	0.05 ^g	0.05 ^{g,h}	None
Copper	0.02 ^g	0.02 ^g	0.05 ^c	None
Cyanide	0.01 ^g	0.02 ^c	0.01 ^{g,h}	None
Nickel	0.04 ^g	0.04 ^g	0.04 ^g	None
Sulfide	0.2 ^c	1.6	1.0 ^c	None
Thallium	0.01 ^g	0.01 ^g	0.01 ^g	None
Tin	0.015 ^c	0.025	0.005 ^g	None
Vanadium	0.01 ^g	0.03 ^c	0.39 ^c	None
Zinc	0.005 ^g	0.005 ^g	0.011 ^c	None

^aAll units are mg/l unless otherwise noted.

^bNC Processing site background groundwater statistical maximum.

^cLognormal distribution, mean is geometric.

^dNormal distribution, mean is arithmetic.

^eNonparametric distribution

^fUnits are pCi/l.

^gStatistical values are below laboratory detection limits in Table 8.1 of the Technical Approach Document (DOE, 1989).

^hValue is an observed maximum, rather than a statistical maximum, because less than four samples were available for statistical analysis.

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Table 10.3 Summary of selected constituents of on-site and downgradient groundwater samples in the Entrada Sandstone Formation, UC processing site

Constituents with MCLs ^a				
Parameter	Baseline Median	Baseline Stat Max	Background Stat Max ^b	MCL
Arsenic	0.01 ^g	0.01 ^g	0.01 ^g	0.05
Barium	0.14 ^c	0.28	0.19 ^d	1.00
Cadmium	0.001 ^g	0.001 ^g	0.002 ^c	0.01
Chromium	0.01 ^g	0.01 ^g	0.01 ^g	0.05
Net gross alpha ^f	-0.26 ^c	7.51	4.10 ^c	15.00
Lead	0.01 ^g	0.01 ^g	0.01 ^g	0.05
Mercury	0.0002 ^g	0.0002 ^g	0.0002 ^g	0.002
Molybdenum	0.01 ^g	0.02	0.03 ^c	0.10
Nitrate	10.8 ^c	79.2	7.6 ^d	44.0
Radium-226,-228 ^f	1.47 ^d	2.14	3.17 ^c	5.0
Selenium	0.017 ^c	0.026	0.013 ^c	0.01
Silver	0.01 ^g	0.01 ^g	0.01 ^g	0.05
Uranium	0.003 ^c	0.007	0.008 ^d	0.044

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Table 10.3 Summary of selected constituents of on-site and downgradient groundwater samples in the Entrada Sandstone Formation, UC processing site (concluded)

Constituents without MCLs ^a				
Parameter	Baseline Median	Baseline Stat Max	Background Stat. Max ^b	MCL
Antimony	0.003 ^g	0.003 ^g	0.003 ^g	None
Beryllium	0.01 ^g	0.01 ^g	0.01 ^g	None
Cobalt	0.05 ^g	0.05 ^g	0.05 ^g	None
Copper	0.02 ^g	0.02 ^g	0.02 ^g	None
Cyanide	0.01 ^g	0.01 ^g	0.01 ^g	None
Nickel	0.04 ^g	0.04 ^g	0.04 ^g	None
Sulfide	1.4 ^c	7.6 ^c	3.6 ^c	None
Thallium	0.01 ^g	0.01 ^g	0.01 ^g	None
Tin	0.005 ^g	0.025 ^c	0.005 ^g	None
Vanadium	0.01 ^g	0.01 ^g	0.02 ^c	None
Zinc	0.005 ^g	0.01 ^c	0.005 ^c	None

^aAll units are mg/l unless otherwise noted.

^bNC Processing site background groundwater statistical maximum.

^cLognormal distribution, mean is geometric.

^dNormal distribution, mean is arithmetic.

^eNonparametric distribution

^fUnits are pCi/l.

^gStatistical values are below laboratory detection limits in Table 8.1 of the Technical Approach Document (DOE, 1989).

158 D.k

6/17/93

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Table 10.4 Summary of selected constituents of on-site and downgradient groundwater samples in the Navajo Sandstone Formation, UC processing site

Constituents with MCLs ^a				
Parameter	Baseline Median	Baseline Stat Max	Background Stat Max ^b	MCL
Arsenic	0.01 ^g	0.013 ^c	0.01 ^c	0.05
Barium	0.14 ^d	0.17	0.18 ^d	1.00
Cadmium	0.001 ^g	0.001 ^g	0.001 ^g	0.01
Chromium	0.01 ^g	0.01 ^g	0.01 ^g	0.05
Net gross alpha ^f	1.96 ^c	6.63	3.63 ^c	15.00
Lead	0.01 ^g	0.01 ^g	0.01 ^g	0.05
Mercury	0.0002 ^g	0.0002 ^g	0.0002 ^g	0.002
Molybdenum	0.01 ^c	0.02	0.06 ^c	0.10
Nitrate	1.0 ^c	2.5	5.7 ^c	44.0
Radium-226,-228 ^f	1.4 ^c	3.1	5.61 ^c	5.0
Selenium	0.005 ^g	0.005 ^g	0.025 ^c	0.01
Silver	0.01 ^g	0.01 ^g	0.30 ^c	0.05
Uranium	0.002 ^c	0.008	0.012 ^c	0.044

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Table 10.4 Summary of selected constituents of on-site and downgradient groundwater samples in the Navajo Sandstone Formation, UC processing site (concluded)

Constituents without MCLs ^a				
Parameter	Baseline Median	Baseline Stat Max	Background Stat. Max ^b	MCL
Antimony	0.003 ^g	0.003 ^g	0.003 ^g	None
Beryllium	0.01 ^g	0.01 ^g	0.01 ^g	None
Cobalt	0.05 ^g	0.05 ^g	0.05 ^g	None
Copper	0.02 ^g	0.02 ^g	0.02 ^g	None
Cyanide	0.01 ^g	0.01 ^g	0.01 ^g	None
Nickel	0.04 ^g	0.04 ^g	0.04 ^g	None
Sulfide	0.2 ^c	0.8 ^c	16.6 ^c	None
Thallium	0.01 ^g	0.01 ^g	0.01 ^g	None
Tin	0.005 ^g	0.005 ^g	0.025 ^c	None
Vanadium	0.01 ^g	0.01 ^g	0.01 ^g	None
Zinc	0.005 ^g	0.015 ^c	0.007 ^c	None

^aAll units are mg/l unless otherwise noted.

^bNC Processing site background groundwater statistical maximum.

^cLognormal distribution, mean is geometric.

^dNormal distribution, mean is arithmetic.

^eNonparametric distribution

^fUnits are pCi/l.

^gStatistical values are below laboratory detection limits in Table 8.1 of the Technical Approach Document (DOE, 1989).

CALCULATION COVER SHEET

CALC NO. SRK 05-93¹²₁₀ DISCIPLINE hydro NO. OF SHEETS 117 D

PROJECT:

UMTRA

SITE:

SLICK ROCK DISPOSAL site (SRK 08)

FEATURE:

Background Groundwater Quality

SOURCES OF DATA:

UMTRA DART system.

SOURCES OF FORMULAE & REFERENCES:

UMTRA DART system.

PRELIMINARY CALC. ☐ FINAL CALC. ☐ SUPERSEDES CALC. NO. _____

				<i>Kathy Monte</i>	<i>6/15/93</i>		
<i>00</i>	<i>K/A</i>	<i>D. Hooper</i>	<i>6/16/93</i>				
REV. NO.	REVISION	CALCULATION BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE

1 DA
6/16/93
KM
6/15/93

BACKGROUND GROUNDWATER QUALITY
BURRO CANYON DISPOSAL SITE (SRK02)
CALC # SRK-05-93-12-10

A. PURPOSE OF CALCULATION

To determine background groundwater quality of the Burro Canyon sandstone at the Burro Canyon Disposal Site (SRK02), located near Slick Rock, Colorado.

B. OVERVIEW OF METHOD

Groundwater quality data were collected from 14 monitor wells installed by the Department of Energy (DOE). These wells are screened in three different units (upper, middle, and lower) in the Burro Canyon sandstone. Monitor wells 518, 523, 527, and 529 are screened in the upper unit of the Burro Canyon sandstone; monitor wells 516, 520, 522, 525, 526, and 528 are screened in the middle unit; monitor wells 517, 519, 521, and 524 are screened in the lower unit. The locations of these wells are shown in Figure 1.

Groundwater quality data were collected and analyzed for a period from June 4, 1990 to November 14, 1992.

C. ASSUMPTIONS

- o The data at each location was not averaged before statistical calculations were performed.
- o Chemical constituents were analyzed with approved and established procedures.
- o Quality control procedures were used during all sampling activities.

D. MATERIAL PROPERTIES

Groundwater occurs at the disposal site in all three units of the Burro Canyon sandstone. Each unit (upper, middle, and lower) is separated by a mudstone unit ranging from 30 to 70 ft thick. The mudstones are impermeable; thus, all three sandstone units are distinct aquifers.

The upper sandstone unit is 20 to 40 ft thick and contains some

J.D.A.
6/16/93
K.M.
6/15/93

interbedded mudstone layers and underlies approximately 50 ft. of mudstone. The average linear groundwater velocity is 5.5 ft/yr and the average transmissivity is 0.8 ft²/d (18.9 ft saturated area). The effective porosity of the upper sandstone unit is 0.10.

The middle sandstone unit is 55 to 75 ft thick and underlies approximately 60 to 70 ft of laterally extensive mudstone.

The top of the middle sandstone unit ranges from 170 to 191 ft below ground surface. The average linear groundwater velocity is 2.5 ft/yr and the average transmissivity is 6.0 ft²/d (65 ft saturated thickness). The effective porosity of the middle sandstone unit is 0.20.

The lower sandstone unit is 39 ft thick and underlies approximately 30 to 60 ft of mudstone. The top of the lower sandstone unit is approximately 305 ft below ground surface. The average linear groundwater velocity is 1.0 ft/yr and the average transmissivity is 0.11 ft²/d (20 ft saturated thickness). The effective porosity of the lower sandstone unit is 0.10.

E. DATA SOURCES

Groundwater quality data are stored in the UMTRA data base management system DART. This information is reproduced in the attached tables. Tables 1 and 2 show background groundwater quality data by parameter and a statistical analysis of background groundwater quality for all sampling dates and all monitor wells in the upper sandstone unit respectively. Tables 3 and 4 show the same data for the middle sandstone unit and tables 5 and 6 present the same information on the lower sandstone unit.

A hazardous constituent is any constituent listed in 40 CFR 192 Table 1 and Appendix I and in 40 CFR 264 Appendix IX which have been incorporated by reference into 40 CFR 192. A list of regulated constituents is presented in Table 7.

F. CONCLUSIONS AND RECOMMENDATIONS

Tables 8.1 summarizes the background groundwater quality for the uppermost aquifer (in the upper sandstone unit) at the Burro Canyon disposal site. Tables 8.2 and 8.3 provide similar information for the middle and lower sandstone units, respectively.

G. REFERENCES

UMTRA database management system DART.

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H. ATTACHMENTS

Figure 1 - Location of Background Monitor Wells at the Burro Canyon Disposal Site.

Table 1 - Groundwater Quality Data by Parameter for the upper Burro Canyon sandstone unit.

Table 2 - Groundwater Quality Statistics by Parameter in the upper Burro Canyon sandstone unit.

Table 3 - Groundwater Quality Data by Parameter for the middle Burro Canyon sandstone unit.

Table 4 - Groundwater Quality Statistics by Parameter in the middle Burro Canyon sandstone unit.

Table 5 - Groundwater Quality Data by Parameter in the lower Burro Canyon sandstone unit.

Table 6 - Groundwater Quality Statistics by Parameter in the lower Burro Canyon sandstone unit.

Table 7 - List of Regulated Constituents.

Table 8.1 - Summary of selected constituents in background groundwater quality for the upper sandstone unit at the Burro Canyon disposal site.

Table 8.2 - Summary of selected constituents in background groundwater quality for the middle sandstone unit at the Burro Canyon disposal site.

Table 8.3 - Summary of selected constituents in background groundwater quality for the lower sandstone unit at the Burro Canyon disposal site.

64 52.0.
6/15/93

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	0518	06/04/90	0001	UB	0	MG/L CaCO3		268.		-	-
	0518	12/15/90	0001	UB	0			230.		-	-
	0518	04/01/91	0001	UB	0			200.		-	-
	0518	08/23/91	0001	UB	0			249		-	-
	0518	10/11/92	0001	UB	0			189		-	-
	0523	12/12/90	0001	UB	0			445.		-	-
	0523	04/01/91	0001	UB	0			607.		-	-
	0523	08/23/91	0001	UB	0			409		-	-
	0523	10/12/92	0001	UB	0			362		-	-
	0527	06/06/90	0001	UB	0			292.		-	-
	0527	12/15/90	0001	UB	0			283.		-	-
	0527	04/04/91	0001	UB	0			304.		-	-
	0527	08/23/91	0001	UB	0			266		-	-
	0527	10/12/92	0001	UB	0			283		-	-
	0529	12/08/90	0001	UB	0			394.		-	-
	0529	04/02/91	0001	UB	0			233.		-	-
	0529	08/23/91	0001	UB	0			277		-	-
	0529	10/12/92	0001	UB	0			270		-	-
ALUMINUM	0518	06/04/90	0001	UB	0	MG/L	<	0.1		0.1	-
	0518	12/15/90	0001	UB	0		<	0.1		0.1	-
	0518	04/01/91	0001	UB	0		<	0.05		0.05	-
	0518	08/23/91	0001	UB	0		<	0.05		0.05	-
	0518	10/11/92	0001	UB	0		<	0.05		0.05	-
	0523	12/12/90	0001	UB	0			0.1		0.1	-
	0523	04/01/91	0001	UB	0			0.07		0.05	-
	0523	08/23/91	0001	UB	0			0.14		0.05	-
	0523	10/12/92	0001	UB	0			0.16		0.05	-
	0527	06/06/90	0001	UB	0		<	0.1		0.1	-
	0527	12/15/90	0001	UB	0		<	0.1		0.1	-
	0527	04/04/91	0001	UB	0			0.07		0.05	-
	0527	08/23/91	0001	UB	0		<	0.05		0.05	-
	0527	10/12/92	0001	UB	0		<	0.05		0.05	-
	0529	12/08/90	0001	UB	0			0.1		0.1	-
	0529	04/02/91	0001	UB	0			0.14		0.05	-
	0529	08/23/91	0001	UB	0		<	0.05		0.05	-
	0529	10/12/92	0001	UB	0			0.07		0.05	-
AMMONIUM	0518	06/04/90	0001	UB	0	MG/L	<	0.1		0.1	-
	0518	12/15/90	0001	UB	0		<	0.1		0.1	-
	0518	04/01/91	0001	UB	0			0.1		0.1	-

FORMATION OF COMPLETION CODE:
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

7 J.A.
6/15/93

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
AMMONIUM	0518	08/23/91	0001	UB	0	MG/L	0.3		0.1	-
	0518	10/11/92	0001	UB	0		0.3		0.1	-
	0523	12/12/90	0001	UB	0		< 0.1		0.1	-
	0523	04/01/91	0001	UB	0		0.3		0.1	-
	0523	08/23/91	0001	UB	0		0.1		0.1	-
	0523	10/12/92	0001	UB	0		0.2		0.1	-
	0527	06/06/90	0001	UB	0		0.3		0.1	-
	0527	12/15/90	0001	UB	0		< 0.1		0.1	-
	0527	04/04/91	0001	UB	0		0.4		0.1	-
	0527	08/23/91	0001	UB	0		0.1		0.1	-
	0527	10/12/92	0001	UB	0		0.3		0.1	-
	0529	12/08/90	0001	UB	0		0.2		0.1	-
	0529	04/02/91	0001	UB	0		0.4		0.1	-
	0529	08/23/91	0001	UB	0		0.3		0.1	-
	0529	10/12/92	0001	UB	0		0.2		0.1	-
ANTIMONY	0518	06/04/90	0001	UB	0	MG/L	< 0.003		0.003	-
	0518	12/15/90	0001	UB	0		< 0.003		0.003	-
	0518	04/01/91	0001	UB	0		< 0.005	I	0.005	-
	0518	08/23/91	0001	UB	0		< 0.003		0.003	-
	0518	10/11/92	0001	UB	0		0.004		0.003	-
	0523	12/12/90	0001	UB	0		< 0.003		0.003	-
	0523	04/01/91	0001	UB	0		< 0.005	I	0.005	-
	0523	08/23/91	0001	UB	0		< 0.003		0.003	-
	0523	10/12/92	0001	UB	0		< 0.003		0.003	-
	0527	06/06/90	0001	UB	0		0.008		0.003	-
	0527	12/15/90	0001	UB	0		< 0.003		0.003	-
	0527	04/04/91	0001	UB	0		< 0.005	I	0.005	-
	0527	08/23/91	0001	UB	0		< 0.003		0.003	-
	0527	10/12/92	0001	UB	0		< 0.003		0.003	-
	0529	12/08/90	0001	UB	0		< 0.003		0.003	-
	0529	04/02/91	0001	UB	0		< 0.005	I	0.005	-
	0529	08/23/91	0001	UB	0		< 0.003		0.003	-
	0529	10/12/92	0001	UB	0		< 0.003		0.003	-
ARSENIC	0518	06/04/90	0001	UB	0	MG/L	< 0.01		0.01	-
	0518	12/15/90	0001	UB	0		< 0.01		0.01	-
	0518	04/01/91	0001	UB	0		< 0.01		0.01	-
	0518	08/23/91	0001	UB	0		< 0.01		0.01	-
	0518	10/11/92	0001	UB	0		< 0.005		0.005	-

FORMATION OF COMPLETION CODE:

UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:

0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

5

8 J.D.
6/15/93

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ARSENIC	0523	12/12/90	0001	UB	0	MG/L	<	0.01		0.01	-
	0523	04/01/91	0001	UB	0		<	0.01		0.01	-
	0523	08/23/91	0001	UB	0		<	0.01		0.01	-
	0523	10/12/92	0001	UB	0		<	0.005		0.005	-
	0527	06/06/90	0001	UB	0		<	0.01		0.01	-
	0527	12/15/90	0001	UB	0		<	0.01		0.01	-
	0527	04/04/91	0001	UB	0		<	0.01		0.01	-
	0527	08/23/91	0001	UB	0		<	0.05	I	0.05	-
	0527	10/12/92	0001	UB	0		<	0.005		0.005	-
	0529	12/08/90	0001	UB	0		<	0.01		0.01	-
	0529	04/02/91	0001	UB	0		<	0.01		0.01	-
	0529	08/23/91	0001	UB	0		<	0.05	I	0.05	-
	0529	10/12/92	0001	UB	0		<	0.005		0.005	-
BARIUM	0518	06/04/90	0001	UB	0	MG/L	<	0.1		0.1	-
	0518	12/15/90	0001	UB	0		<	0.1		0.1	-
	0518	04/01/91	0001	UB	0			0.03		0.01	-
	0518	08/23/91	0001	UB	0			0.03		0.01	-
	0518	10/11/92	0001	UB	0			0.03		0.01	-
	0523	12/12/90	0001	UB	0		<	0.1		0.1	-
	0523	04/01/91	0001	UB	0			0.03		0.01	-
	0523	08/23/91	0001	UB	0			0.02		0.01	-
	0523	10/12/92	0001	UB	0			0.02		0.01	-
	0527	06/06/90	0001	UB	0		<	0.1		0.1	-
	0527	12/15/90	0001	UB	0		<	0.1		0.1	-
	0527	04/04/91	0001	UB	0			0.04		0.01	-
	0527	08/23/91	0001	UB	0			0.03		0.01	-
	0527	10/12/92	0001	UB	0			0.04		0.01	-
	0529	12/08/90	0001	UB	0		<	0.1		0.1	-
	0529	04/02/91	0001	UB	0			0.02		0.01	-
	0529	08/23/91	0001	UB	0			0.02		0.01	-
	0529	10/12/92	0001	UB	0			0.02		0.01	-
BERYLLIUM	0518	06/04/90	0001	UB	0	MG/L	<	0.01		0.01	-
	0518	12/15/90	0001	UB	0		<	0.01		0.01	-
	0518	04/01/91	0001	UB	0		<	0.005		0.005	-
	0518	08/23/91	0001	UB	0		<	0.005		0.005	-
	0523	12/12/90	0001	UB	0		<	0.01		0.01	-
	0523	04/01/91	0001	UB	0		<	0.005		0.005	-
	0523	08/23/91	0001	UB	0		<	0.005		0.005	-

FORMATION OF COMPLETION CODE:
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

9 J.D.
6/15/93

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BERYLLIUM	0527	06/06/90	0001	UB	0	MG/L	<	0.01		0.01	-
	0527	12/15/90	0001	UB	0		<	0.01		0.01	-
	0527	04/04/91	0001	UB	0		<	0.005		0.005	-
	0527	08/23/91	0001	UB	0		<	0.005		0.005	-
	0529	12/08/90	0001	UB	0		<	0.01		0.01	-
	0529	04/02/91	0001	UB	0		<	0.005		0.005	-
	0529	08/23/91	0001	UB	0		<	0.005		0.005	-
BORON	0518	06/04/90	0001	UB	0	MG/L		0.2		0.1	-
	0518	12/15/90	0001	UB	0			0.2		0.1	-
	0518	04/01/91	0001	UB	0			0.24		0.05	-
	0518	08/23/91	0001	UB	0			0.23		0.05	-
	0523	12/12/90	0001	UB	0			0.1		0.1	-
	0523	04/01/91	0001	UB	0			0.18		0.05	-
	0523	08/23/91	0001	UB	0			0.18		0.05	-
	0527	06/06/90	0001	UB	0			0.2		0.1	-
	0527	12/15/90	0001	UB	0			0.2		0.1	-
	0527	04/04/91	0001	UB	0			0.20		0.05	-
	0527	08/23/91	0001	UB	0			0.21		0.05	-
	0529	12/08/90	0001	UB	0			0.2		0.1	-
	0529	04/02/91	0001	UB	0			0.27		0.05	-
	0529	08/23/91	0001	UB	0			0.25		0.05	-
BROMIDE	0518	04/01/91	0001	UB	0	MG/L		0.2		0.1	-
	0518	08/23/91	0001	UB	0			0.2		0.1	-
	0518	10/11/92	0001	UB	0		<	0.1		0.1	-
	0523	04/01/91	0001	UB	0			0.2		0.1	-
	0523	08/23/91	0001	UB	0			0.1		0.1	-
	0523	10/12/92	0001	UB	0		<	0.2	1	0.2	-
	0527	04/04/91	0001	UB	0			0.3		0.1	-
	0527	08/23/91	0001	UB	0			0.3		0.1	-
	0527	10/12/92	0001	UB	0		<	0.3	1	0.3	-
	0529	04/02/91	0001	UB	0			0.5		0.1	-
	0529	08/23/91	0001	UB	0			0.4		0.1	-
	0529	10/12/92	0001	UB	0		<	0.2	1	0.2	-
CADMIUM	0518	06/04/90	0001	UB	0	MG/L	<	0.001		0.001	-
	0518	12/15/90	0001	UB	0		<	0.001		0.001	-
	0518	04/01/91	0001	UB	0			0.0006		0.0005	-
	0518	08/23/91	0001	UB	0		<	0.001		0.001	-

FORMATION OF COMPLETION CODE:
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
1 - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

7

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CADMIUM	0518	10/11/92	0001	UB	0	MG/L	<	0.02	I	0.02	-
	0523	12/12/90	0001	UB	0		<	0.001		0.001	-
	0523	04/01/91	0001	UB	0		<	0.0005		0.0005	-
	0523	08/23/91	0001	UB	0		<	0.001		0.001	-
	0523	10/12/92	0001	UB	0		<	0.001		0.001	-
	0527	06/06/90	0001	UB	0		<	0.001		0.001	-
	0527	12/15/90	0001	UB	0		<	0.001		0.001	-
	0527	04/04/91	0001	UB	0		<	0.0005		0.0005	-
	0527	08/23/91	0001	UB	0		<	0.001		0.001	-
	0527	10/12/92	0001	UB	0		<	0.001		0.001	-
	0529	12/08/90	0001	UB	0		<	0.001		0.001	-
	0529	04/02/91	0001	UB	0		<	0.0005		0.0005	-
	0529	08/23/91	0001	UB	0		<	0.001		0.001	-
	0529	10/12/92	0001	UB	0		<	0.001		0.001	-
CALCIUM	0518	06/04/90	0001	UB	0	MG/L		118.		0.01	-
	0518	12/15/90	0001	UB	0			105.		0.01	-
	0518	04/01/91	0001	UB	0			112.		0.5	-
	0518	08/23/91	0001	UB	0			108.		0.5	-
	0518	10/11/92	0001	UB	0			105.		0.5	-
	0523	12/12/90	0001	UB	0			4.54		0.01	-
	0523	04/01/91	0001	UB	0			5.1		0.1	-
	0523	08/23/91	0001	UB	0			3.7		0.1	-
	0523	10/12/92	0001	UB	0			4.8		0.1	-
	0527	06/06/90	0001	UB	0			18.7		0.01	-
	0527	12/15/90	0001	UB	0			17.7		0.01	-
	0527	04/04/91	0001	UB	0			20.1		0.5	-
	0527	08/23/91	0001	UB	0			18.5		0.1	-
	0527	10/12/92	0001	UB	0			15.9		0.1	-
	0529	12/08/90	0001	UB	0			6.96		0.01	-
	0529	04/02/91	0001	UB	0			7.5		0.1	-
	0529	08/23/91	0001	UB	0			7.3		0.1	-
	0529	10/12/92	0001	UB	0			6.8		0.1	-
CHLORIDE	0518	06/04/90	0001	UB	0	MG/L		13.		1.	-
	0518	12/15/90	0001	UB	0			14.		1.	-
	0518	04/01/91	0001	UB	0			15.7		0.5	-
	0518	08/23/91	0001	UB	0			15.6		0.5	-
	0518	10/11/92	0001	UB	0			16.3		0.5	-
	0523	12/12/90	0001	UB	0			19.		1.	-

FORMATION OF COMPLETION CODE:
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

11 520
6/15/92

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CHLORIDE	0523	04/01/91	0001	UB	0	MG/L	20.		0.5	-
	0523	08/23/91	0001	UB	0		22.		0.5	-
	0523	10/12/92	0001	UB	0		20.		1.	-
	0527	06/06/90	0001	UB	0		32.		1.	-
	0527	12/15/90	0001	UB	0		27.		1.	-
	0527	04/04/91	0001	UB	0		25.		0.5	-
	0527	08/23/91	0001	UB	0		23.		1.	-
	0527	10/12/92	0001	UB	0		25.		1.	-
	0529	12/08/90	0001	UB	0		32.		1.	-
	0529	04/02/91	0001	UB	0		32.		0.5	-
	0529	08/23/91	0001	UB	0		30.		1.	-
	0529	10/12/92	0001	UB	0		31.		1.	-
CHROMIUM	0518	06/04/90	0001	UB	0	MG/L	< 0.01		0.01	-
	0518	12/15/90	0001	UB	0		< 0.01		0.01	-
	0518	04/01/91	0001	UB	0		< 0.01		0.01	-
	0518	08/23/91	0001	UB	0		< 0.01		0.01	-
	0518	10/11/92	0001	UB	0		< 0.01		0.01	-
	0523	12/12/90	0001	UB	0		< 0.01		0.01	-
	0523	04/01/91	0001	UB	0		< 0.01		0.01	-
	0523	08/23/91	0001	UB	0		< 0.01		0.01	-
	0523	10/12/92	0001	UB	0		< 0.01		0.01	-
	0527	06/06/90	0001	UB	0		< 0.01		0.01	-
	0527	12/15/90	0001	UB	0		< 0.01		0.01	-
	0527	04/04/91	0001	UB	0		< 0.01		0.01	-
	0527	08/23/91	0001	UB	0		< 0.01		0.01	-
	0527	10/12/92	0001	UB	0		< 0.01		0.01	-
	0529	12/08/90	0001	UB	0		< 0.01		0.01	-
	0529	04/02/91	0001	UB	0		< 0.01		0.01	-
	0529	08/23/91	0001	UB	0		< 0.01		0.01	-
	0529	10/12/92	0001	UB	0		< 0.01		0.01	-
COBALT	0518	06/04/90	0001	UB	0	MG/L	< 0.05		0.05	-
	0518	12/15/90	0001	UB	0		< 0.05		0.05	-
	0518	04/01/91	0001	UB	0		< 0.03		0.03	-
	0518	08/23/91	0001	UB	0		< 0.03		0.03	-
	0523	12/12/90	0001	UB	0		< 0.05		0.05	-
	0523	04/01/91	0001	UB	0		< 0.03		0.03	-
	0523	08/23/91	0001	UB	0		< 0.03		0.03	-
	0527	06/06/90	0001	UB	0		< 0.05		0.05	-
	0527	12/15/90	0001	UB	0		< 0.05		0.05	-

FORMATION OF COMPLETION CODE:
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

5

12 2.2
6/15/93

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
COBALT	0527	04/04/91	0001	UB	0	MG/L	< 0.03		0.03	-
	0527	08/23/91	0001	UB	0		< 0.03		0.03	-
	0529	12/08/90	0001	UB	0		< 0.05		0.05	-
	0529	04/02/91	0001	UB	0		< 0.03		0.03	-
	0529	08/23/91	0001	UB	0		< 0.03		0.03	-
COPPER	0518	06/04/90	0001	UB	0	MG/L	< 0.02		0.02	-
	0518	12/15/90	0001	UB	0		< 0.02		0.02	-
	0518	04/01/91	0001	UB	0		< 0.01		0.01	-
	0518	08/23/91	0001	UB	0		< 0.01		0.01	-
	0518	10/11/92	0001	UB	0		< 0.01		0.01	-
	0523	12/12/90	0001	UB	0		< 0.02		0.02	-
	0523	04/01/91	0001	UB	0		< 0.01		0.01	-
	0523	08/23/91	0001	UB	0		< 0.01		0.01	-
	0523	10/12/92	0001	UB	0		< 0.01		0.01	-
	0527	06/06/90	0001	UB	0		< 0.02		0.02	-
	0527	12/15/90	0001	UB	0		< 0.02		0.02	-
	0527	04/04/91	0001	UB	0		< 0.01		0.01	-
	0527	08/23/91	0001	UB	0		< 0.01		0.01	-
	0527	10/12/92	0001	UB	0		< 0.01		0.01	-
	0529	12/08/90	0001	UB	0		< 0.02		0.02	-
	0529	04/02/91	0001	UB	0		< 0.01		0.01	-
	0529	08/23/91	0001	UB	0		< 0.01		0.01	-
	0529	10/12/92	0001	UB	0		< 0.01		0.01	-
CYANIDE	0518	12/15/90	0001	UB	0	MG/L	< 0.01		0.01	-
	0518	04/01/91	0001	UB	0		< 0.01		0.01	-
	0518	08/23/91	0001	UB	0		< 0.01		0.01	-
	0523	12/12/90	0001	UB	0		< 0.01		0.01	-
	0523	04/01/91	0001	UB	0		< 0.01		0.01	-
	0523	08/23/91	0001	UB	0		< 0.01		0.01	-
	0527	12/15/90	0001	UB	0		< 0.01		0.01	-
	0527	04/04/91	0001	UB	0		< 0.01		0.01	-
	0527	08/23/91	0001	UB	0		< 0.01		0.01	-
	0529	12/08/90	0001	UB	0		< 0.01		0.01	-
FLUORIDE	0518	06/04/90	0001	UB	0	MG/L	0.7		0.1	-
	0518	12/15/90	0001	UB	0		0.8		0.1	-
	0518	04/01/91	0001	UB	0		0.6		0.1	-

FORMATION OF COMPLETION CODE:
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

13 JJA
6/15/9.

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
FLUORIDE	0518	08/23/91	0001	UB	0	MG/L		0.7		0.1	-
	0518	10/11/92	0001	UB	0			0.8		0.1	-
	0523	12/12/90	0001	UB	0			1.1		0.1	-
	0523	04/01/91	0001	UB	0			0.9		0.1	-
	0523	08/23/91	0001	UB	0			0.9		0.1	-
	0523	10/12/92	0001	UB	0			1.1		0.1	-
	0527	06/06/90	0001	UB	0			0.8		0.1	-
	0527	12/15/90	0001	UB	0			0.8		0.1	-
	0527	04/04/91	0001	UB	0			0.7		0.1	-
	0527	08/23/91	0001	UB	0			0.7		0.1	-
	0527	10/12/92	0001	UB	0			0.8		0.1	-
	0529	12/08/90	0001	UB	0			0.8		0.1	-
	0529	04/02/91	0001	UB	0			0.7		0.1	-
	0529	08/23/91	0001	UB	0			0.6		0.1	-
	0529	10/12/92	0001	UB	0			0.8		0.1	-
GROSS ALPHA	0518	12/15/90	0001	UB	0	PCI/L		18.		1.	7.
	0518	04/01/91	0001	UB	0			12.6		1.	8.9
	0518	08/23/91	0001	UB	0			12.6		1.	14.0
	0518	10/11/92	0001	UB	0			11.9	N	11.5	8.2
	0523	12/12/90	0001	UB	0			1.3		1.	4.3
	0523	04/01/91	0001	UB	0			0.0		1.	5.0
	0523	08/23/91	0001	UB	0			0.0		1.	8.2
	0523	10/12/92	0001	UB	0			0.0	N	11.9	6.3
	0527	12/15/90	0001	UB	0			10.		1.	7.
	0527	04/04/91	0001	UB	0			2.4		1.	7.3
	0527	08/23/91	0001	UB	0			7.3		1.	12.6
	0527	10/12/92	0001	UB	0			0.0	N	14.3	7.6
	0529	12/08/90	0001	UB	0			1.7		1.	4.0
	0529	04/02/91	0001	UB	0			1.6		1.	4.8
	0529	08/23/91	0001	UB	0			10.2		1.	10.5
	0529	10/12/92	0001	UB	0			0.0	N	11.1	5.7
GROSS BETA	0518	12/15/90	0001	UB	0	PCI/L		11.		0.5	4.
	0518	04/01/91	0001	UB	0			7.3		0.5	4.9
	0518	08/23/91	0001	UB	0			3.8		0.5	9.3
	0518	10/11/92	0001	UB	0			39.2	*N	10.2	7.7
	0523	12/12/90	0001	UB	0			9.7		0.5	3.4
	0523	04/01/91	0001	UB	0			0.0		0.5	3.2

FORMATION OF COMPLETION CODE:
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

- - DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS
- N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS

11

14 20
6/15/91

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
GROSS BETA	0523	08/23/91	0001	UB	0	PCI/L	4.6		0.5	7.0
	0523	10/12/92	0001	UB	0		0.7	*N	10.2	6.1
	0527	12/15/90	0001	UB	0		5.5		0.5	4.1
	0527	04/04/91	0001	UB	0		0.2		0.5	4.4
	0527	08/23/91	0001	UB	0		0.0		0.5	8.0
	0527	10/12/92	0001	UB	0		6.1	*N	12.2	7.5
	0529	12/08/90	0001	UB	0		3.9		0.5	2.8
	0529	04/02/91	0001	UB	0		0.4		0.5	2.9
	0529	08/23/91	0001	UB	0		3.1		0.5	6.9
	0529	10/12/92	0001	UB	0		0.0	*N	9.7	5.6
IRON	0518	06/04/90	0001	UB	0	MG/L	0.04		0.03	-
	0518	12/15/90	0001	UB	0		< 0.03		0.03	-
	0518	04/01/91	0001	UB	0		< 0.03		0.03	-
	0518	08/23/91	0001	UB	0		< 0.03		0.03	-
	0518	10/11/92	0001	UB	0		< 0.03		0.03	-
	0523	12/12/90	0001	UB	0		< 0.03		0.03	-
	0523	04/01/91	0001	UB	0		0.03		0.03	-
	0523	08/23/91	0001	UB	0		0.06		0.03	-
	0523	10/12/92	0001	UB	0		0.07		0.03	-
	0527	06/06/90	0001	UB	0		< 0.03		0.03	-
	0527	12/15/90	0001	UB	0		< 0.03		0.03	-
	0527	04/04/91	0001	UB	0		0.03		0.03	-
	0527	08/23/91	0001	UB	0		< 0.03		0.03	-
	0527	10/12/92	0001	UB	0		< 0.03		0.03	-
	0529	12/08/90	0001	UB	0		< 0.03		0.03	-
	0529	04/02/91	0001	UB	0		0.05		0.03	-
	0529	08/23/91	0001	UB	0		< 0.03		0.03	-
	0529	10/12/92	0001	UB	0		< 0.03		0.03	-
LEAD	0518	06/04/90	0001	UB	0	MG/L	< 0.01		0.01	-
	0518	12/15/90	0001	UB	0		< 0.01		0.01	-
	0518	04/01/91	0001	UB	0		< 0.005		0.005	-
	0518	08/23/91	0001	UB	0		< 0.03	I	0.03	-
	0518	10/11/92	0001	UB	0		< 0.02	I	0.02	-
	0523	12/12/90	0001	UB	0		< 0.01		0.01	-
	0523	04/01/91	0001	UB	0		< 0.005		0.005	-
	0523	08/23/91	0001	UB	0		< 0.005		0.005	-
	0523	10/12/92	0001	UB	0		< 0.02	I	0.02	-

FORMATION OF COMPLETION CODE:

UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:

0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

* - DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS

12

15 M.L
6/15/9'

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
LEAD	0527	06/06/90	0001	UB	0	MG/L	<	0.01		0.01	-
	0527	12/15/90	0001	UB	0		<	0.01		0.01	-
	0527	04/04/91	0001	UB	0		<	0.005		0.005	-
	0527	08/23/91	0001	UB	0		<	0.005		0.005	-
	0527	10/12/92	0001	UB	0		<	0.02	I	0.02	-
	0529	12/08/90	0001	UB	0		<	0.01		0.01	-
	0529	04/02/91	0001	UB	0		<	0.005		0.005	-
	0529	08/23/91	0001	UB	0		<	0.005		0.005	-
	0529	10/12/92	0001	UB	0		<	0.02	I	0.02	-
LEAD-210	0518	12/15/90	0001	UB	0	PCI/L		0.2	c	1.4	1.2
	0518	04/01/91	0001	UB	0			0.3		1.5	1.4
	0518	08/23/91	0001	UB	0			0.9		1.5	1.0
	0523	12/12/90	0001	UB	0			0.7		1.5	0.9
	0523	04/01/91	0001	UB	0			0.0		1.5	1.3
	0523	08/23/91	0001	UB	0			0.0		1.5	0.9
	0527	12/15/90	0001	UB	0		<	0.9	b	1.5	0.9
	0527	04/04/91	0001	UB	0			0.0		1.5	1.3
	0527	08/23/91	0001	UB	0			0.0		1.5	0.9
	0529	12/08/90	0001	UB	0		<	0.9	b	1.5	0.9
	0529	04/02/91	0001	UB	0			0.0		1.5	1.3
	0529	08/23/91	0001	UB	0			0.0		1.5	0.9
MAGNESIUM	0518	06/04/90	0001	UB	0	MG/L		32.2		0.001	-
	0518	12/15/90	0001	UB	0			30.9		0.001	-
	0518	04/01/91	0001	UB	0			32.5		0.1	-
	0518	08/23/91	0001	UB	0			30.3		0.1	-
	0518	10/11/92	0001	UB	0			28.7		0.1	-
	0523	12/12/90	0001	UB	0			0.58		0.001	-
	0523	04/01/91	0001	UB	0			0.6		0.1	-
	0523	08/23/91	0001	UB	0			0.3		0.1	-
	0523	10/12/92	0001	UB	0			0.7		0.1	-
	0527	06/06/90	0001	UB	0			4.9		0.001	-
	0527	12/15/90	0001	UB	0			4.86		0.001	-
	0527	04/04/91	0001	UB	0			5.8		0.1	-
	0527	08/23/91	0001	UB	0			5.2		0.1	-
	0527	10/12/92	0001	UB	0			4.1		0.1	-
	0529	12/08/90	0001	UB	0			2.05		0.001	-

FORMATION OF COMPLETION CODE:
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
b - CHANGED PARAMETER VALUE
c - CHANGED DETECTION LIMIT

13

16 JJD.
6/15/93

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MAGNESIUM	0529	04/02/91	0001	UB	0	MG/L		2.2		0.1	-
	0529	08/23/91	0001	UB	0			2.1		0.1	-
	0529	10/12/92	0001	UB	0			1.9		0.1	-
MANGANESE	0518	06/04/90	0001	UB	0	MG/L		0.11		0.01	-
	0518	12/15/90	0001	UB	0			0.07		0.01	-
	0518	04/01/91	0001	UB	0			0.01		0.01	-
	0518	08/23/91	0001	UB	0			0.04		0.01	-
	0518	10/11/92	0001	UB	0			0.05		0.01	-
	0523	12/12/90	0001	UB	0			0.01		0.01	-
	0523	04/01/91	0001	UB	0			0.02		0.01	-
	0523	08/23/91	0001	UB	0		<	0.01		0.01	-
	0523	10/12/92	0001	UB	0			0.03		0.01	-
	0527	06/06/90	0001	UB	0			0.06		0.01	-
	0527	12/15/90	0001	UB	0			0.03		0.01	-
	0527	04/04/91	0001	UB	0			0.04		0.01	-
	0527	08/23/91	0001	UB	0			0.02		0.01	-
	0527	10/12/92	0001	UB	0			0.05		0.01	-
	0529	12/08/90	0001	UB	0			0.01		0.01	-
	0529	04/02/91	0001	UB	0		<	0.01		0.01	-
	0529	08/23/91	0001	UB	0		<	0.01		0.01	-
	0529	10/12/92	0001	UB	0		<	0.01		0.01	-
MERCURY	0518	06/04/90	0001	UB	0	MG/L	<	0.0002		0.0002	-
	0518	12/15/90	0001	UB	0		<	0.0002		0.0002	-
	0518	04/01/91	0001	UB	0		<	0.0002		0.0002	-
	0518	08/23/91	0001	UB	0		<	0.0002		0.0002	-
	0523	12/12/90	0001	UB	0		<	0.0002		0.0002	-
	0523	04/01/91	0001	UB	0		<	0.0002		0.0002	-
	0523	08/23/91	0001	UB	0		<	0.0002		0.0002	-
	0527	06/06/90	0001	UB	0		<	0.0002		0.0002	-
	0527	12/15/90	0001	UB	0		<	0.0002		0.0002	-
	0527	04/04/91	0001	UB	0		<	0.0002		0.0002	-
	0527	08/23/91	0001	UB	0		<	0.0002		0.0002	-
	0529	12/08/90	0001	UB	0		<	0.0002		0.0002	-
	0529	04/02/91	0001	UB	0		<	0.0002		0.0002	-
	0529	08/23/91	0001	UB	0		<	0.0002		0.0002	-
MOLYBDENUM	0518	06/04/90	0001	UB	0	MG/L		0.01		0.01	-
	0518	12/15/90	0001	UB	0			0.02		0.01	-
	0518	04/01/91	0001	UB	0		<	0.01		0.01	-

FORMATION OF COMPLETION CODE:
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

71

17 JJA.
6/15/93

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MOLYBDENUM	0518	08/23/91	0001	UB	0	MG/L		0.01		0.01	-
	0518	10/11/92	0001	UB	0			0.01		0.01	-
	0523	12/12/90	0001	UB	0			0.02		0.01	-
	0523	04/01/91	0001	UB	0			0.03		0.01	-
	0523	08/23/91	0001	UB	0		<	0.01		0.01	-
	0523	10/12/92	0001	UB	0			0.01		0.01	-
	0527	06/06/90	0001	UB	0			0.02		0.01	-
	0527	12/15/90	0001	UB	0			0.02		0.01	-
	0527	04/04/91	0001	UB	0		<	0.01		0.01	-
	0527	08/23/91	0001	UB	0		<	0.01		0.01	-
	0527	10/12/92	0001	UB	0			0.01		0.01	-
	0529	12/08/90	0001	UB	0			0.01		0.01	-
	0529	04/02/91	0001	UB	0		<	0.01		0.01	-
	0529	08/23/91	0001	UB	0		<	0.01		0.01	-
	0529	10/12/92	0001	UB	0		<	0.01		0.01	-
NET GROSS ALPHA *	0518	12/15/90	0001	UB	0	PCI/L		6.20		-	-
	0518	04/01/91	0001	UB	0			-0.43		-	-
	0518	08/23/91	0001	UB	0			0.94		-	-
	0518	10/11/92	0001	UB	0			-3.19		-	-
	0523	12/12/90	0001	UB	0			0.75		-	-
	0523	04/01/91	0001	UB	0			-17.15		-	-
	0523	08/23/91	0001	UB	0			-0.34		-	-
	0523	10/12/92	0001	UB	0			-1.37		-	-
	0527	12/15/90	0001	UB	0			8.22		-	-
	0527	04/04/91	0001	UB	0			1.03		-	-
	0527	08/23/91	0001	UB	0			6.96		-	-
	0527	10/12/92	0001	UB	0			-1.37		-	-
	0529	12/08/90	0001	UB	0			1.60		-	-
	0529	04/02/91	0001	UB	0			1.26		-	-
	0529	08/23/91	0001	UB	0			9.86		-	-
	0529	10/12/92	0001	UB	0			-1.37		-	-
NICKEL	0518	06/04/90	0001	UB	0	MG/L	<	0.04		0.04	-
	0518	12/15/90	0001	UB	0		<	0.04		0.04	-
	0518	04/01/91	0001	UB	0		<	0.04		0.04	-
	0518	08/23/91	0001	UB	0		<	0.04		0.04	-
	0518	10/11/92	0001	UB	0		<	0.04		0.04	-
	0523	12/12/90	0001	UB	0		<	0.04		0.04	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

FORMATION OF COMPLETION CODE:
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

18 JJJ.
6/15/93

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NICKEL	0523	04/01/91	0001	UB	0	MG/L	<	0.04		0.04	-
	0523	08/23/91	0001	UB	0		<	0.04		0.04	-
	0523	10/12/92	0001	UB	0		<	0.04		0.04	-
	0527	06/06/90	0001	UB	0		<	0.04		0.04	-
	0527	12/15/90	0001	UB	0		<	0.04		0.04	-
	0527	04/04/91	0001	UB	0		<	0.04		0.04	-
	0527	08/23/91	0001	UB	0		<	0.04		0.04	-
	0527	10/12/92	0001	UB	0		<	0.04		0.04	-
	0529	12/08/90	0001	UB	0		<	0.04		0.04	-
	0529	04/02/91	0001	UB	0		<	0.04		0.04	-
	0529	08/23/91	0001	UB	0		<	0.04		0.04	-
	0529	10/12/92	0001	UB	0		<	0.04		0.04	-
NITRATE	0518	06/04/90	0001	UB	0	MG/L	<	1.		1.	-
	0518	04/01/91	0001	UB	0			2.		1.	-
	0518	08/23/91	0001	UB	0			4.4		1.	-
	0518	10/11/92	0001	UB	0			1.6		1.0	-
	0523	04/01/91	0001	UB	0		<	1.0		1.	-
	0523	08/23/91	0001	UB	0			5.8		1.	-
	0523	10/12/92	0001	UB	0		<	1.0		1.0	-
	0527	06/06/90	0001	UB	0		<	1.		1.	-
	0527	04/04/91	0001	UB	0			3.		1.	-
	0527	08/23/91	0001	UB	0			4.4		1.	-
	0527	10/12/92	0001	UB	0			1.4		1.0	-
	0529	04/02/91	0001	UB	0		<	1.0		1.	-
	0529	08/23/91	0001	UB	0			24.3		1.	-
	0529	10/12/92	0001	UB	0			1.6		1.0	-
NITRITE AND NITRATE	0518	06/04/90	0001	UB	0	MG/L	<	1.		1.	-
	0518	04/01/91	0001	UB	0			0.39		0.05	-
	0518	08/23/91	0001	UB	0			0.98		0.05	-
	0523	04/01/91	0001	UB	0			0.12		0.05	-
	0523	08/23/91	0001	UB	0			1.31		0.05	-
	0527	06/06/90	0001	UB	0		<	1.		1.	-
	0527	04/04/91	0001	UB	0			0.70		0.05	-
	0527	08/23/91	0001	UB	0			1.08		0.05	-
	0529	04/02/91	0001	UB	0			0.26		0.05	-
	0529	08/23/91	0001	UB	0			5.54		0.05	-
PH	0518	06/04/90	0001	UB	0	SU		7.58		-	-
	0518	12/15/90	0001	UB	0			7.69		-	-

FORMATION OF COMPLETION CODE:
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

19 JJD
6/15/93

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PH	0518	04/01/91	0001	UB	0	SU		7.58		-	-
	0518	08/23/91	0001	UB	0			7.56		-	-
	0518	10/11/92	0001	UB	0			7.46		-	-
	0523	06/04/90	0001	UB	0			8.72		-	-
	0523	12/12/90	0001	UB	0			8.28		-	-
	0523	04/01/91	0001	UB	0			8.25		-	-
	0523	08/23/91	0001	UB	0			8.27		-	-
	0523	10/12/92	0001	UB	0			8.22		-	-
	0527	06/06/90	0001	UB	0			8.19		-	-
	0527	12/15/90	0001	UB	0			8.00		-	-
	0527	04/04/91	0001	UB	0			7.98		-	-
	0527	08/23/91	0001	UB	0			7.94		-	-
	0527	10/12/92	0001	UB	0			7.96		-	-
	0529	06/06/90	0001	UB	0			9.09		-	-
	0529	12/08/90	0001	UB	0			8.86		-	-
	0529	04/02/91	0001	UB	0			8.94		-	-
	0529	08/23/91	0001	UB	0			8.93		-	-
	0529	10/12/92	0001	UB	0			8.90		-	-
PHOSPHATE	0518	06/04/90	0001	UB	0	MG/L	<	0.1		0.1	-
	0518	04/01/91	0001	UB	0		<	0.1		0.1	-
	0518	08/23/91	0001	UB	0			0.1		0.1	-
	0518	10/11/92	0001	UB	0			0.4	J	0.1	-
	0523	04/01/91	0001	UB	0			0.1		0.1	-
	0523	08/23/91	0001	UB	0			0.1		0.1	-
	0523	10/12/92	0001	UB	0			1.6	J	0.1	-
	0527	06/06/90	0001	UB	0		<	0.1		0.1	-
	0527	04/04/91	0001	UB	0			0.1		0.1	-
	0527	08/23/91	0001	UB	0			0.2		0.1	-
	0527	10/12/92	0001	UB	0			0.5	J	0.1	-
	0529	04/02/91	0001	UB	0		<	0.1		0.1	-
	0529	08/23/91	0001	UB	0		<	0.1		0.1	-
	0529	10/12/92	0001	UB	0			0.6	J	0.1	-
POLONIUM-210	0518	12/15/90	0001	UB	0	PCI/L		0.1	c	0.5	0.4
	0518	04/01/91	0001	UB	0			0.0		1.	0.1
	0518	08/23/91	0001	UB	0			0.1		1.	0.3
	0523	12/12/90	0001	UB	0			0.5	c	0.9	0.4
	0523	04/01/91	0001	UB	0			0.0		1.	0.1

FORMATION OF COMPLETION CODE:
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE
c - CHANGED DETECTION LIMIT

12

20 J.P.
6/15/93

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
POLONIUM-210	0523	08/23/91	0001	UB	O	PCI/L		0.2		1.	0.4
	0527	12/15/90	0001	UB	O			0.1	c	0.6	0.5
	0527	04/04/91	0001	UB	O			0.1		1.	0.1
	0527	08/23/91	0001	UB	O			0.1		1.	0.4
	0529	12/08/90	0001	UB	O			0.3	c	0.7	0.4
	0529	04/02/91	0001	UB	O			0.0		1.	0.1
	0529	08/23/91	0001	UB	O			0.0		1.	0.3
POTASSIUM	0518	06/04/90	0001	UB	O	MG/L		5.2		0.01	-
	0518	12/15/90	0001	UB	O			4.6		0.01	-
	0518	04/01/91	0001	UB	O			4.2		0.01	-
	0518	08/23/91	0001	UB	O			3.9		0.01	-
	0518	10/11/92	0001	UB	O			4.15		0.01	-
	0523	12/12/90	0001	UB	O			1.1		0.01	-
	0523	04/01/91	0001	UB	O			0.87		0.01	-
	0523	08/23/91	0001	UB	O			0.76		0.01	-
	0523	10/12/92	0001	UB	O			0.88		0.01	-
	0527	06/06/90	0001	UB	O			7.7		0.01	-
	0527	12/15/90	0001	UB	O			3.4		0.01	-
	0527	04/04/91	0001	UB	O			3.2		0.01	-
	0527	08/23/91	0001	UB	O			3.6		0.01	-
	0527	10/12/92	0001	UB	O			2.63		0.01	-
	0529	12/08/90	0001	UB	O			1.4		0.01	-
	0529	04/02/91	0001	UB	O			1.28		0.01	-
	0529	08/23/91	0001	UB	O			1.67		0.01	-
	0529	10/12/92	0001	UB	O			1.21		0.01	-
RADIUM-226	0518	06/04/90	0001	UB	O	PCI/L		0.1	c	0.2	0.1
	0518	12/15/90	0001	UB	O		<	0.1	d	0.1	0.1
	0518	04/01/91	0001	UB	O			0.4		1.	0.2
	0518	08/23/91	0001	UB	O			0.5		1.	0.3
	0518	10/11/92	0001	UB	O			0.0		0.8	0.4
	0523	12/12/90	0001	UB	O			0.1	c	0.3	0.2
	0523	04/01/91	0001	UB	O			0.0		1.	0.1
	0523	08/23/91	0001	UB	O			0.0		1.	0.1
	0523	10/12/92	0001	UB	O			0.0		0.8	0.5
	0527	06/06/90	0001	UB	O			0.1	c	0.2	0.1
	0527	12/15/90	0001	UB	O			0.3	c	0.5	0.2
	0527	04/04/91	0001	UB	O			0.4		1.	0.2

FORMATION OF COMPLETION CODE:
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT
d - CHANGED DETECTION LIMIT AND PARAMETER VALUE

21 22
6/15/9

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
RADIUM-226	0527	08/23/91	0001	UB	O	PCI/L	0.3		1.	0.3
	0527	10/12/92	0001	UB	O		0.0		0.8	0.5
	0529	12/08/90	0001	UB	O		0.1	c	0.3	0.2
	0529	04/02/91	0001	UB	O		0.1		1.	0.1
	0529	08/23/91	0001	UB	O		0.0		1.	0.2
	0529	10/12/92	0001	UB	O		0.0		0.8	0.4
RADIUM-226 + RADIUM-228	0518	06/04/90	0001	UB	O	PCI/L	1.00		-	-
	0518	12/15/90	0001	UB	O		1.55		-	-
	0518	04/01/91	0001	UB	O		7.60		-	-
	0518	08/23/91	0001	UB	O		0.50		-	-
	0518	10/11/92	0001	UB	O		0.00		-	-
	0523	12/12/90	0001	UB	O		0.70		-	-
	0523	04/01/91	0001	UB	O		3.30		-	-
	0523	08/23/91	0001	UB	O		0.50		-	-
	0523	10/12/92	0001	UB	O		0.60		-	-
	0527	06/06/90	0001	UB	O		1.30		-	-
	0527	12/15/90	0001	UB	O		1.80		-	-
	0527	04/04/91	0001	UB	O		0.90		-	-
	0527	08/23/91	0001	UB	O		1.70		-	-
	0527	10/12/92	0001	UB	O		0.60		-	-
	0529	12/08/90	0001	UB	O		0.90		-	-
	0529	04/02/91	0001	UB	O		5.00		-	-
	0529	08/23/91	0001	UB	O		1.10		-	-
	0529	10/12/92	0001	UB	O		0.00		-	-
RADIUM-228	0518	06/04/90	0001	UB	O	PCI/L	0.9		1.	0.7
	0518	12/15/90	0001	UB	O		1.5		1.	0.8
	0518	04/01/91	0001	UB	O		7.2		1.	1.2
	0518	08/23/91	0001	UB	O		0.0		1.	2.0
	0518	10/11/92	0001	UB	O		0.0	N	4.1	2.3
	0523	12/12/90	0001	UB	O		0.6		1.	0.8
	0523	04/01/91	0001	UB	O		3.3		1.	1.1
	0523	08/23/91	0001	UB	O		0.5		1.	2.1
	0523	10/12/92	0001	UB	O		0.6		2.9	1.8
	0527	06/06/90	0001	UB	O		1.2		1.	0.9
	0527	12/15/90	0001	UB	O		1.5		1.	0.8
	0527	04/04/91	0001	UB	O		0.5		1.	1.2
	0527	08/23/91	0001	UB	O		1.4		1.	2.2

FORMATION OF COMPLETION CODE:
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS
c - CHANGED DETECTION LIMIT

22 552
6/15/92

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
RADIUM-228	0527	10/12/92	0001	UB	0	PCI/L	0.6		2.9	1.8
	0529	12/08/90	0001	UB	0		0.8		1.	0.7
	0529	04/02/91	0001	UB	0		4.9		1.	1.4
	0529	08/23/91	0001	UB	0		1.1		1.	2.2
	0529	10/12/92	0001	UB	0		0.0		2.9	1.7
REDOX POTENTIAL	0518	12/15/90	0001	UB	0	mVOLTS	264.		-	-
	0523	12/12/90	0001	UB	0		276.7		-	-
	0527	12/15/90	0001	UB	0		368.7		-	-
	0529	12/08/90	0001	UB	0		194.1		-	-
SELENIUM	0518	06/04/90	0001	UB	0	MG/L	0.012		0.005	-
	0518	12/15/90	0001	UB	0		0.015		0.005	-
	0518	04/01/91	0001	UB	0		0.011		0.005	-
	0518	08/23/91	0001	UB	0		0.04		0.03	-
	0518	10/11/92	0001	UB	0		0.02		0.02	-
	0523	12/12/90	0001	UB	0		< 0.005		0.005	-
	0523	04/01/91	0001	UB	0		< 0.005		0.005	-
	0523	08/23/91	0001	UB	0		< 0.005		0.005	-
	0523	10/12/92	0001	UB	0		< 0.02	I	0.02	-
	0527	06/06/90	0001	UB	0		< 0.005		0.005	-
	0527	12/15/90	0001	UB	0		< 0.005		0.005	-
	0527	04/04/91	0001	UB	0		< 0.005		0.005	-
	0527	08/23/91	0001	UB	0		< 0.005		0.005	-
	0527	10/12/92	0001	UB	0		0.007		0.005	-
	0529	12/08/90	0001	UB	0		< 0.005		0.005	-
	0529	04/02/91	0001	UB	0		< 0.005		0.005	-
	0529	08/23/91	0001	UB	0		< 0.005		0.005	-
	0529	10/12/92	0001	UB	0		0.006		0.005	-
SILICA - SiO2	0518	06/04/90	0001	UB	0	MG/L	12.		2.	-
	0518	12/15/90	0001	UB	0		11.		2.	-
	0518	04/01/91	0001	UB	0		10.8		0.1	-
	0518	08/23/91	0001	UB	0		11.2		0.1	-
	0518	10/11/92	0001	UB	0		11.6		0.1	-
	0523	12/12/90	0001	UB	0		10.		2.	-
	0523	04/01/91	0001	UB	0		9.8		0.1	-
	0523	08/23/91	0001	UB	0		10.6		0.1	-
	0523	10/12/92	0001	UB	0		9.9		0.1	-
	0527	06/06/90	0001	UB	0		13.		2.	-

FORMATION OF COMPLETION CODE:
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

20

23 DA
6/15/92

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SILICA - SiO2	0527	12/15/90	0001	UB	0	MG/L	11.		2.	-
	0527	04/04/91	0001	UB	0		11.4		0.1	-
	0527	08/23/91	0001	UB	0		11.1		0.1	-
	0527	10/12/92	0001	UB	0		10.7		0.1	-
	0529	12/08/90	0001	UB	0		9.		2.	-
	0529	04/02/91	0001	UB	0		9.4		0.1	-
	0529	08/23/91	0001	UB	0		9.4		0.1	-
	0529	10/12/92	0001	UB	0		9.4		0.1	-
SILVER	0518	06/04/90	0001	UB	0	MG/L	< 0.01		0.01	-
	0518	12/15/90	0001	UB	0		< 0.01		0.01	-
	0518	04/01/91	0001	UB	0		< 0.01		0.01	-
	0518	08/23/91	0001	UB	0		< 0.01		0.01	-
	0523	12/12/90	0001	UB	0		< 0.01		0.01	-
	0523	04/01/91	0001	UB	0		< 0.01		0.01	-
	0523	08/23/91	0001	UB	0		< 0.01		0.01	-
	0527	06/06/90	0001	UB	0		< 0.01		0.01	-
	0527	12/15/90	0001	UB	0		< 0.01		0.01	-
	0527	04/04/91	0001	UB	0		< 0.01		0.01	-
	0527	08/23/91	0001	UB	0		< 0.01		0.01	-
	0529	12/08/90	0001	UB	0		< 0.01		0.01	-
	0529	04/02/91	0001	UB	0		< 0.01		0.01	-
	0529	08/23/91	0001	UB	0		< 0.01		0.01	-
SODIUM	0518	06/04/90	0001	UB	0	MG/L	143.		0.002	-
	0518	12/15/90	0001	UB	0		139.		0.002	-
	0518	04/01/91	0001	UB	0		148.		5.	-
	0518	08/23/91	0001	UB	0		144.		5.	-
	0518	10/11/92	0001	UB	0		139.		5.	-
	0523	12/12/90	0001	UB	0		226.		0.002	-
	0523	04/01/91	0001	UB	0		249.		5.	-
	0523	08/23/91	0001	UB	0		238.		5.	-
	0523	10/12/92	0001	UB	0		214.		5.	-
	0527	06/06/90	0001	UB	0		266.		0.002	-
	0527	12/15/90	0001	UB	0		262.		0.002	-
	0527	04/04/91	0001	UB	0		288.		5.	-
	0527	08/23/91	0001	UB	0		274.		5.	-
	0527	10/12/92	0001	UB	0		264.		5.	-
	0529	12/08/90	0001	UB	0		213.		0.002	-
	0529	04/02/91	0001	UB	0		229.		5.	-
	0529	08/23/91	0001	UB	0		221.		5.	-

FORMATION OF COMPLETION CODE:
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

24 JJ
6/15/93

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SODIUM	0529	10/12/92	0001	UB	0	MG/L		218.		5.	-
SPECIFIC CONDUCTANCE	0518	06/04/90	0001	UB	0	UMHO/CM		1000.		-	-
	0518	12/15/90	0001	UB	0			1307.		-	-
	0518	04/01/91	0001	UB	0			1324.		-	-
	0518	08/23/91	0001	UB	0			1298		-	-
	0518	10/11/92	0001	UB	0			970		-	-
	0523	06/04/90	0001	UB	0			950.		-	-
	0523	12/12/90	0001	UB	0			1010.		-	-
	0523	04/01/91	0001	UB	0			1022.		-	-
	0523	08/23/91	0001	UB	0			990		-	-
	0523	10/12/92	0001	UB	0			730		-	-
	0527	06/06/90	0001	UB	0			1000.		-	-
	0527	12/15/90	0001	UB	0			1321.		-	-
	0527	04/04/91	0001	UB	0			1326.		-	-
	0527	08/23/91	0001	UB	0			1322		-	-
	0527	10/12/92	0001	UB	0			1032		-	-
	0529	06/06/90	0001	UB	0			850.		-	-
	0529	04/02/91	0001	UB	0			1065.		-	-
	0529	08/23/91	0001	UB	0			1057		-	-
	0529	10/12/92	0001	UB	0			828		-	-
STRONTIUM	0518	06/04/90	0001	UB	0	MG/L		14.8		0.1	-
	0518	12/15/90	0001	UB	0			15.0		0.1	-
	0518	04/01/91	0001	UB	0			14.8		0.01	-
	0518	08/23/91	0001	UB	0			13.8		0.01	-
	0518	10/11/92	0001	UB	0			13.3		0.01	-
	0523	12/12/90	0001	UB	0			0.4		0.1	-
	0523	04/01/91	0001	UB	0			0.53		0.01	-
	0523	08/23/91	0001	UB	0			0.35		0.01	-
	0523	10/12/92	0001	UB	0			0.48		0.01	-
	0527	06/06/90	0001	UB	0			1.62		0.1	-
	0527	12/15/90	0001	UB	0			3.0		0.1	-
	0527	04/04/91	0001	UB	0			3.83		0.01	-
	0527	08/23/91	0001	UB	0			3.57		0.01	-
	0527	10/12/92	0001	UB	0			3.24		0.01	-
	0529	12/08/90	0001	UB	0			1.2		0.1	-
	0529	04/02/91	0001	UB	0			1.44		0.01	-
	0529	08/23/91	0001	UB	0			1.43		0.01	-
	0529	10/12/92	0001	UB	0			1.34		0.01	-
SULFATE	0518	06/04/90	0001	UB	0	MG/L		535.		0.1	-

FORMATION OF COMPLETION CODE:
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

22

25 J
6/15/

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SULFATE	0518	04/01/91	0001	UB	0	MG/L		498.		10.	-
	0518	08/23/91	0001	UB	0			468.		10.	-
	0518	10/11/92	0001	UB	0			477.		6.	-
	0523	04/01/91	0001	UB	0			150.		0.1	-
	0523	08/23/91	0001	UB	0			129.		10.	-
	0523	10/12/92	0001	UB	0			138.		10.	-
	0527	06/06/90	0001	UB	0			364.		0.1	-
	0527	04/04/91	0001	UB	0			360.		10.	-
	0527	08/23/91	0001	UB	0			351.		10.	-
	0527	10/12/92	0001	UB	0			431.		6.	-
	0529	04/02/91	0001	UB	0			315.		10.	-
	0529	08/23/91	0001	UB	0			303.		10.	-
	0529	10/12/92	0001	UB	0			324.		6.	-
SULFIDE	0518	12/15/90	0001	UB	0	MG/L	<	0.1		0.1	-
	0518	04/01/91	0001	UB	0			0.3		0.1	-
	0518	08/23/91	0001	UB	0			0.6		0.1	-
	0518	10/11/92	0001	UB	0			0.2		0.1	-
	0523	12/12/90	0001	UB	0			0.1		0.1	-
	0523	04/01/91	0001	UB	0		<	5.04		0.1	-
	0523	08/23/91	0001	UB	0			2.0		0.1	-
	0523	10/12/92	0001	UB	0			1.0		0.1	-
	0527	12/15/90	0001	UB	0			0.1		0.1	-
	0527	04/04/91	0001	UB	0		<	0.3		0.1	-
	0527	10/12/92	0001	UB	0			0.6		0.1	-
	0529	12/08/90	0001	UB	0			0.1		0.1	-
	0529	04/02/91	0001	UB	0		<	0.6		0.1	-
	0529	08/23/91	0001	UB	0			0.8		0.1	-
	0529	10/12/92	0001	UB	0			0.4		0.1	-
TEMPERATURE	0518	06/04/90	0001	UB	0	C - DEGREE		13.5		-	-
	0518	12/15/90	0001	UB	0			12.5		-	-
	0518	04/01/91	0001	UB	0			13.0		-	-
	0518	08/23/91	0001	UB	0			13.9		-	-
	0518	10/11/92	0001	UB	0			12.8		-	-
	0523	06/04/90	0001	UB	0			23.5		-	-
	0523	12/12/90	0001	UB	0			12.9		-	-
	0523	04/01/91	0001	UB	0			13.0		-	-
	0523	08/23/91	0001	UB	0			13.7		-	-
	0523	10/12/92	0001	UB	0			13.4		-	-
	0527	06/06/90	0001	UB	0			15.0		-	-

FORMATION OF COMPLETION CODE:
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

23

26 2002
6/15/93

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TEMPERATURE	0527	12/15/90	0001	UB	0	C - DEGREE		12.8		-	-
	0527	04/04/91	0001	UB	0			13.4		-	-
	0527	08/23/91	0001	UB	0			14.2		-	-
	0527	10/12/92	0001	UB	0			13.8		-	-
	0529	06/06/90	0001	UB	0'			14.0		-	-
	0529	12/08/90	0001	UB	0			13.0		-	-
	0529	04/02/91	0001	UB	0			13.4		-	-
	0529	08/23/91	0001	UB	0			13.5		-	-
	0529	10/12/92	0001	UB	0			13.4		-	-
THALLIUM	0518	06/04/90	0001	UB	0	MG/L	<	0.01		0.01	-
	0518	12/15/90	0001	UB	0		<	0.01		0.01	-
	0518	04/01/91	0001	UB	0		<	0.01		0.01	-
	0518	08/23/91	0001	UB	0		<	0.01		0.01	-
	0518	10/11/92	0001	UB	0		<	0.005		0.005	-
	0523	12/12/90	0001	UB	0		<	0.01		0.01	-
	0523	04/01/91	0001	UB	0		<	0.01		0.01	-
	0523	08/23/91	0001	UB	0		<	0.01		0.01	-
	0523	10/12/92	0001	UB	0		<	0.005		0.005	-
	0527	06/06/90	0001	UB	0		<	0.01		0.01	-
	0527	12/15/90	0001	UB	0		<	0.01		0.01	-
	0527	04/04/91	0001	UB	0		<	0.01		0.01	-
	0527	08/23/91	0001	UB	0		<	0.01		0.01	-
	0527	10/12/92	0001	UB	0		<	0.005		0.005	-
	0529	12/08/90	0001	UB	0		<	0.01		0.01	-
	0529	04/02/91	0001	UB	0		<	0.01		0.01	-
	0529	08/23/91	0001	UB	0		<	0.01		0.01	-
	0529	10/12/92	0001	UB	0		<	0.005		0.005	-
THORIUM-230	0518	12/15/90	0001	UB	0	PCI/L	<	0.3	d	0.1	0.3
	0518	04/01/91	0001	UB	0			0.1		1.	0.4
	0518	08/23/91	0001	UB	0			0.2		1.	0.5
	0523	12/12/90	0001	UB	0		<	0.3	d	0.1	0.3
	0523	04/01/91	0001	UB	0			0.0		1.	0.2
	0523	08/23/91	0001	UB	0			0.4		1.	0.4
	0527	12/15/90	0001	UB	0		<	0.4	d	0.1	0.4
	0527	04/04/91	0001	UB	0			0.0		1.	0.3
	0527	08/23/91	0001	UB	0			0.1		1.	0.2
	0529	12/08/90	0001	UB	0		<	0.3	d	0.1	0.3
	0529	04/02/91	0001	UB	0			0.3		1.	0.5

FORMATION OF COMPLETION CODE:
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
d - CHANGED DETECTION LIMIT AND PARAMETER VALUE

29

27 DJ
6/15/93

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
THORIUM-230	0529	08/23/91	0001	UB	O	PCI/L		0.7		1.	0.6
TIN	0518	06/04/90	0001	UB	O	MG/L	<	0.005		0.005	-
	0518	12/15/90	0001	UB	O		<	0.005		0.005	-
	0518	04/01/91	0001	UB	O		<	0.005		0.005	-
	0518	08/23/91	0001	UB	O		<	0.005		0.005	-
	0518	10/11/92	0001	UB	O		<	0.005		0.005	-
	0523	12/12/90	0001	UB	O		<	0.005		0.005	-
	0523	04/01/91	0001	UB	O		<	0.005		0.005	-
	0523	08/23/91	0001	UB	O		<	0.005		0.005	-
	0523	10/12/92	0001	UB	O		<	0.005		0.005	-
	0527	06/06/90	0001	UB	O		<	0.005		0.005	-
	0527	12/15/90	0001	UB	O		<	0.005		0.005	-
	0527	04/04/91	0001	UB	O		<	0.005		0.005	-
	0527	08/23/91	0001	UB	O		<	0.005		0.005	-
	0527	10/12/92	0001	UB	O		<	0.005		0.005	-
	0529	12/08/90	0001	UB	O		<	0.005		0.005	-
	0529	04/02/91	0001	UB	O		<	0.005		0.005	-
	0529	08/23/91	0001	UB	O		<	0.005		0.005	-
	0529	10/12/92	0001	UB	O		<	0.05	I	0.05	-
TOTAL DISSOLVED SOLIDS	0518	06/04/90	0001	UB	O	MG/L		966.		10.	-
	0518	12/15/90	0001	UB	O			928.		10.	-
	0518	04/01/91	0001	UB	O			973.		10.	-
	0518	08/23/91	0001	UB	O			951.		10.	-
	0518	10/11/92	0001	UB	O			906.		10.	-
	0523	12/12/90	0001	UB	O			556.		10.	-
	0523	04/01/91	0001	UB	O			636.		10.	-
	0523	08/23/91	0001	UB	O			615.		10.	-
	0523	10/12/92	0001	UB	O			587.		10.	-
	0527	06/06/90	0001	UB	O			762.		10.	-
	0527	12/15/90	0001	UB	O			760.		10.	-
	0527	04/04/91	0001	UB	O			854.		10.	-
	0527	08/23/91	0001	UB	O			843.		10.	-
	0527	10/12/92	0001	UB	O			840.		10.	-
	0529	12/08/90	0001	UB	O			600.		10.	-
	0529	04/02/91	0001	UB	O			664.		10.	-
	0529	08/23/91	0001	UB	O			662.		10.	-
	0529	10/12/92	0001	UB	O			676.		10.	-
TOTAL KJELDAHL NITROGEN	0518	12/15/90	0001	UB	O	MG/L	<	1.		1.	-

FORMATION OF COMPLETION CODE:
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

25

28 22.2.
6/15/93

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL KJELDAHL NITROGEN	0518	04/01/91	0001	UB	0	MG/L	<	1.		1.	-
	0518	08/23/91	0001	UB	0		<	1.		1.	-
	0523	12/12/90	0001	UB	0		<	1.		1.	-
	0523	04/01/91	0001	UB	0		<	1.		1.	-
	0523	08/23/91	0001	UB	0			1.		1.	-
	0527	12/15/90	0001	UB	0		<	1.		1.	-
	0527	04/04/91	0001	UB	0			2.		1.	-
	0527	08/23/91	0001	UB	0			1.		1.	-
	0529	12/08/90	0001	UB	0			1.		1.	-
	0529	04/02/91	0001	UB	0			1.		1.	-
	0529	08/23/91	0001	UB	0			1.		1.	-
TOTAL ORGANIC CARBON	0518	04/01/91	0001	UB	0	MG/L	<	1.		1.	-
	0518	08/23/91	0001	UB	0			2.		1.	-
	0518	10/11/92	0001	UB	0			2.		1.	-
	0523	04/01/91	0001	UB	0		<	1.		1.	-
	0523	08/23/91	0001	UB	0			2.		1.	-
	0523	10/12/92	0001	UB	0			3.		1.	-
	0527	04/04/91	0001	UB	0		<	1.		1.	-
	0527	08/23/91	0001	UB	0			4.		1.	-
	0527	10/12/92	0001	UB	0			3.		1.	-
	0529	04/02/91	0001	UB	0			1.		1.	-
	0529	08/23/91	0001	UB	0			3.		1.	-
	0529	10/12/92	0001	UB	0			3.		1.	-
URANIUM	0518	06/04/90	0001	UB	0	MG/L		0.020		0.003	-
	0518	12/15/90	0001	UB	0			0.0172		0.0003	-
	0518	04/01/91	0001	UB	0			0.019		0.001	-
	0518	08/23/91	0001	UB	0			0.017		0.001	-
	0518	10/11/92	0001	UB	0			0.022		0.001	-
	0523	12/12/90	0001	UB	0			0.0008		0.0003	-
	0523	04/01/91	0001	UB	0			0.025		0.001	-
	0523	08/23/91	0001	UB	0		<	0.001		0.001	-
	0523	10/12/92	0001	UB	0			0.002		0.001	-
	0527	06/06/90	0001	UB	0			0.0066		0.003	-
	0527	12/15/90	0001	UB	0			0.0026		0.0003	-
	0527	04/04/91	0001	UB	0			0.002		0.001	-
	0527	08/23/91	0001	UB	0		<	0.001		0.001	-
	0527	10/12/92	0001	UB	0			0.002		0.001	-
	0529	12/08/90	0001	UB	0		<	0.0003		0.0003	-
	0529	04/02/91	0001	UB	0		<	0.001		0.001	-

FORMATION OF COMPLETION CODE:
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

29 22
6/15/93

TABLE 1. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
URANIUM	0529	08/23/91	0001	UB	0	MG/L	<	0.001		0.001	-
	0529	10/12/92	0001	UB	0			0.002		0.001	-
VANADIUM	0518	06/04/90	0001	UB	0	MG/L		0.02		0.01	-
	0518	12/15/90	0001	UB	0			0.03		0.01	-
	0518	04/01/91	0001	UB	0		<	0.01		0.01	-
	0518	08/23/91	0001	UB	0		<	0.01		0.01	-
	0518	10/11/92	0001	UB	0		<	0.01		0.01	-
	0523	12/12/90	0001	UB	0		<	0.02		0.01	-
	0523	04/01/91	0001	UB	0		<	0.01		0.01	-
	0523	08/23/91	0001	UB	0		<	0.01		0.01	-
	0523	10/12/92	0001	UB	0		<	0.01		0.01	-
	0527	06/06/90	0001	UB	0		<	0.01		0.01	-
	0527	12/15/90	0001	UB	0			0.02		0.01	-
	0527	04/04/91	0001	UB	0		<	0.01		0.01	-
	0527	08/23/91	0001	UB	0		<	0.01		0.01	-
	0527	10/12/92	0001	UB	0		<	0.01		0.01	-
	0529	12/08/90	0001	UB	0			0.02		0.01	-
	0529	04/02/91	0001	UB	0		<	0.01		0.01	-
	0529	08/23/91	0001	UB	0		<	0.01		0.01	-
	0529	10/12/92	0001	UB	0		<	0.01		0.01	-
ZINC	0518	06/04/90	0001	UB	0	MG/L		0.018		0.005	-
	0518	12/15/90	0001	UB	0		<	0.005		0.005	-
	0518	04/01/91	0001	UB	0			0.011		0.005	-
	0518	08/23/91	0001	UB	0		<	0.005		0.005	-
	0518	10/11/92	0001	UB	0		<	0.005		0.005	-
	0523	12/12/90	0001	UB	0		<	0.005		0.005	-
	0523	04/01/91	0001	UB	0			0.006		0.005	-
	0523	08/23/91	0001	UB	0			0.010		0.005	-
	0523	10/12/92	0001	UB	0		<	0.005		0.005	-
	0527	06/06/90	0001	UB	0			0.006		0.005	-
	0527	12/15/90	0001	UB	0		<	0.005		0.005	-
	0527	04/04/91	0001	UB	0			0.010		0.005	-
	0527	08/23/91	0001	UB	0			0.007		0.005	-
	0527	10/12/92	0001	UB	0		<	0.005		0.005	-
	0529	12/08/90	0001	UB	0		<	0.005		0.005	-
	0529	04/02/91	0001	UB	0			0.006		0.005	-
	0529	08/23/91	0001	UB	0			0.014		0.005	-
	0529	10/12/92	0001	UB	0		<	0.005		0.005	-

FORMATION OF COMPLETION CODE:
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

DATA FILE NAME: M:\DART\SRK02\GMQ10013.DAT

TABLE 2. GROUNDWATER QUALITY STATISTICS BY PARAMETER
FOR THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/16/93

PARAMETER NAME				UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN								
ALKALINITY				MG/L CaCO3								
18	189.0000	607.0000	+ 280.0000	308.9444	102.0303	0.3303	0.0	247.2113	370.6776	NORMAL		
ALUMINUM				MG/L								
18	** 0.0500	0.1600	+ 0.0500	NA	NA	NA	55.6	** 0.0500	0.1000	NONPARAMETRIC	2	
AMMONIUM				MG/L								
18	** 0.1000	0.4000	+ 0.2000	NA	NA	NA	22.2	** 0.1000	0.3000	NONPARAMETRIC	2	
ANTIMONY				MG/L								
18	** 0.0030	0.0080	** 0.0030	NA	NA	NA	88.9	** 0.0030	** 0.0030	NONPARAMETRIC	2	
ARSENIC				MG/L								
18	** 0.0050	0.0250	+ 0.0050	NA	NA	NA	100.0	** 0.0050	0.0050	NONPARAMETRIC	2	
BARIUM				MG/L								
18	0.0200	0.0500	+ 0.0300	NA	NA	NA	33.3	0.0200	0.0500	NONPARAMETRIC	2	
BERYLLIUM				MG/L								
14	** 0.0050	0.0050	** 0.0050	NA	NA	NA	100.0	** 0.0050	0.0050	NONPARAMETRIC	2	
BORON				MG/L								
14	0.1000	0.2700	+ 0.2000	0.2043	0.0398	0.1946	0.0	0.1761	0.2324	NORMAL		
BROMIDE				MG/L								
12	** 0.1000	0.5000	+ 0.2000	NA	NA	NA	33.3	0.1000	0.4000	NONPARAMETRIC	2	
CADMIUM				MG/L								
18	** 0.0005	0.0100	+ 0.0005	NA	NA	NA	94.4	0.0005	0.0005	NONPARAMETRIC	2	

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

56/91/9
6/16/93
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TABLE 2. GROUNDWATER QUALITY STATISTICS BY PARAMETER
FOR THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/16/93

PARAMETER NAME					UNITS								
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE	
									MINIMUM	MAXIMUM *			
CALCIUM					MG/L								
18	3.7000	118.0000	+ 16.8000	17.8193		3.5680	NA	0.0	8.2537	38.4711	LOGNORMAL	7,8	
CHLORIDE					MG/L								
18	13.0000	32.0000	+ 22.5000	22.9222		6.6369	0.2895	0.0	18.9066	26.9379	NORMAL		
CHROMIUM					MG/L								
18	** 0.0100	** 0.0100	** 0.0100	NA		NA	NA	100.0	** 0.0100	** 0.0100	NONPARAMETRIC	2	
COBALT					MG/L								
14	** 0.0300	** 0.0300	** 0.0300	NA		NA	NA	100.0	** 0.0300	** 0.0300	NONPARAMETRIC	2	
COPPER					MG/L								
18	** 0.0100	0.0100	** 0.0100	NA		NA	NA	100.0	** 0.0100	0.0100	NONPARAMETRIC	2	
CYANIDE					MG/L								
12	** 0.0100	** 0.0100	** 0.0100	NA		NA	NA	100.0	** 0.0100	** 0.0100	NONPARAMETRIC	2	
FLUORIDE					MG/L								
18	0.6000	1.1000	+ 0.8000	0.7944		0.1392	0.1752	0.0	0.7102	0.8787	NORMAL		
GROSS ALPHA					PCI/L								
16	** 1.0000	18.0000	+ 2.0500	NA		NA	NA	0.0	** 1.0000	12.6000	NONPARAMETRIC	9	
GROSS BETA					PCI/L								
16	** 0.5000	39.2000	+ 3.8500	NA		NA	NA	0.0	** 0.5000	9.7000	NONPARAMETRIC	9	

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

56/10/93
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TABLE 2. GROUNDWATER QUALITY STATISTICS BY PARAMETER
FOR THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/16/93

PARAMETER NAME				UNITS	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN						MINIMUM	MAXIMUM *		
IRON				MG/L								
18	** 0.0300	0.0700	** 0.0300		NA	NA	NA	66.7	** 0.0300	0.0400	NONPARAMETRIC	2
LEAD				MG/L								
18	** 0.0050	0.0150	+ 0.0050		NA	NA	NA	100.0	** 0.0050	0.0100	NONPARAMETRIC	2
LEAD-210				PCI/L								
12	** 1.4000	** 1.4000	** 1.4000		NA	NA	NA	16.7	** 1.4000	** 1.4000	NONPARAMETRIC	2
MAGNESIUM				MG/L								
18	0.3000	32.5000	+ 4.4800		4.1036	4.6387	NA	0.0	1.6217	10.3840	LOGNORMAL	7,8
MANGANESE				MG/L								
18	** 0.0100	0.1100	+ 0.0250		NA	NA	NA	22.2	** 0.0100	0.0500	NONPARAMETRIC	2
MERCURY				MG/L								
14	** 0.0002	** 0.0002	** 0.0002		NA	NA	NA	100.0	** 0.0002	** 0.0002	NONPARAMETRIC	2
MOLYBDENUM				MG/L								
18	** 0.0100	0.0300	+ 0.0100		NA	NA	NA	44.4	** 0.0100	0.0200	NONPARAMETRIC	2
NET GROSS ALPHA ***				PCI/L								
16	-17.1500	9.8600	+ 0.8450		NA	NA	NA	0.0	-1.3700	6.9600	NONPARAMETRIC	9
NICKEL				MG/L								
18	** 0.0400	** 0.0400	** 0.0400		NA	NA	NA	100.0	** 0.0400	** 0.0400	NONPARAMETRIC	2

*** NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

30
6/16/93

TABLE 2. GROUNDWATER QUALITY STATISTICS BY PARAMETER
FOR THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/16/93

PARAMETER NAME				UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE		
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	MINIMUM				MAXIMUM *					
NITRATE				MG/L		NA	NA	35.7	**	1.0000	4.4000	NONPARAMETRIC	2	
14	**	1.0000	24.3000	+	1.6000									
NITRITE AND NITRATE				MG/L		NA	NA	20.0		0.2600	1.3100	NONPARAMETRIC	2	
10		0.1200	5.5400	+	0.6000									
PH				SU		NA	NA	0.0		NA	NA	UNKNOWN		
20		7.4600	9.0900	+	8.2047									
PHOSPHATE				MG/L		NA	NA	35.7	**	0.1000	0.5000	NONPARAMETRIC	2	
14	**	0.1000	1.6000	+	0.1000									
POLONIUM-210				PCI/L		NA	NA	0.0	**	0.5000	**	0.5000	NONPARAMETRIC	9
12	**	0.5000	0.5000	**	0.5000									
POTASSIUM				MG/L		2.8750	1.9040	0.6623	0.0	1.7230	4.0270	NORMAL		
18		0.7600	7.7000	+	2.9150									
RADIUM-226				PCI/L		NA	NA	5.6	**	0.1000	0.3000	NONPARAMETRIC	9	
18	**	0.1000	0.5000	+	0.1000									
RADIUM-226 + RADIUM-228				PCI/L		NA	NA	0.0		0.5000	1.8000	NONPARAMETRIC	9	
18		0.0000	7.6000	+	0.9500									
RADIUM-228				PCI/L		NA	NA	0.0	**	1.0000	1.5000	NONPARAMETRIC	9	
18	**	1.0000	7.2000	**	1.0000									
REDOX POTENTIAL				mVOLTS		275.8750	71.7526	0.2601	0.0	112.9606	438.7894	NORMAL		
4		194.1000	368.7000	+	270.3500									

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

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C/16/14.

TABLE 2. GROUNDWATER QUALITY STATISTICS BY PARAMETER
FOR THE UPPER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/12/92
REPORT DATE: 06/16/93

PARAMETER NAME					UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN		MEAN								
SELENIUM					MG/L								
18	** 0.0050	0.0400	** 0.0050		NA	NA	NA	61.1	** 0.0050	0.0120	NONPARAMETRIC	2	
SILICA - SiO2					MG/L								
18	9.0000	13.0000	+ 10.7500		10.6278	1.0487	0.0987	0.0	9.9933	11.2623	NORMAL		
SILVER					MG/L								
14	** 0.0100	** 0.0100	** 0.0100		NA	NA	NA	100.0	** 0.0100	** 0.0100	NONPARAMETRIC	2	
SODIUM					MG/L								
18	139.0000	288.0000	+ 223.5000		215.2778	51.0695	0.2372	0.0	184.3783	246.1773	NORMAL		
SPECIFIC CONDUCTANCE					UMHO/CM								
19	730.0000	1326.0000	1022.0000		1073.7895	187.8450	0.1749	0.0	963.8121	1183.7669	NORMAL		
STRONTIUM					MG/L								
18	0.3500	15.0000	+ 2.3100		2.5071	3.7536	NA	0.0	1.1262	5.5813	LOGNORMAL	7,8	
SULFATE					MG/L								
14	129.0000	535.0000	+ 355.5000		345.9286	133.2155	0.3851	0.0	251.5797	440.2774	NORMAL		
SULFIDE					MG/L								
15	** 0.1000	5.0400	0.4000		NA	NA	NA	26.7	** 0.1000	1.0000	NONPARAMETRIC	2	
TEMPERATURE					C - DEGREE								
20	12.5000	23.5000	+ 13.4000		13.9350	2.3241	0.1668	0.0	12.6155	15.2545	NORMAL		
THALLIUM					MG/L								
18	** 0.0050	0.0050	+ 0.0050		NA	NA	NA	100.0	** 0.0050	0.0050	NONPARAMETRIC	2	

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

32 E.
6/16/93

TABLE 2. GROUNDWATER QUALITY STATISTICS BY PARAMETER
 FOR THE UPPER BURRO CANYON SANDSTONE UNIT
 SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
 06/04/90 TO 10/12/92
 REPORT DATE: 06/16/93

PARAMETER NAME				UNITS				COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN		STANDARD DEVIATION				MINIMUM	MAXIMUM *		
THORIUM-230				PCI/L									
12	** 0.1000	0.7000	** 0.1000	NA		NA	NA	33.3	**	0.1000	0.4000	NONPARAMETRIC	2
TIN				MG/L									
18	** 0.0050	0.0250	** 0.0050	NA		NA	NA	100.0	**	0.0050	** 0.0050	NONPARAMETRIC	2
TOTAL DISSOLVED SOLIDS				MG/L									
18	556.0000	973.0000	+ 761.0000	765.5000		144.4732	0.1887	0.0		678.0868	852.9132	NORMAL	
TOTAL KJELDAHL NITROGEN				MG/L									
12	** 1.0000	2.0000	** 1.0000	NA		NA	NA	50.0	**	1.0000	1.0000	NONPARAMETRIC	2
TOTAL ORGANIC CARBON				MG/L									
12	** 1.0000	4.0000	+ 2.0000	NA		NA	NA	25.0	**	1.0000	3.0000	NONPARAMETRIC	2
URANIUM				MG/L									
18	** 0.0003	0.0250	+ 0.0020	NA		NA	NA	27.8		0.0005	0.0190	NONPARAMETRIC	2
VANADIUM				MG/L									
18	** 0.0100	0.0300	** 0.0100	NA		NA	NA	72.2	**	0.0100	0.0200	NONPARAMETRIC	2
ZINC				MG/L									
18	** 0.0050	0.0180	** 0.0050	NA		NA	NA	50.0	**	0.0050	0.0100	NONPARAMETRIC	2

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

INPUT DATA FILENAME: M:\DART\SRK02\GWQ10013.DAT

33
6/16/93

37 J.D.
6/15/93

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	0516	06/06/90	0001	MB	O	MG/L CaCO3		263.		-	-
	0516	12/08/90	0001	MB	O			265.		-	-
	0516	04/04/91	0001	MB	O			248.		-	-
	0516	08/26/91	0001	MB	O			234		-	-
	0516	10/14/92	0001	MB	O			253		-	-
	0520	06/04/90	0001	MB	O			257.		-	-
	0520	12/12/90	0001	MB	O			258.		-	-
	0520	04/01/91	0001	MB	O			252.		-	-
	0520	08/22/91	0001	MB	O			244		-	-
	0520	10/11/92	0001	MB	O			266		-	-
	0522	06/04/90	0001	MB	O			217.		-	-
	0522	12/08/90	0001	MB	O			201.		-	-
	0522	04/02/91	0001	MB	O			219.		-	-
	0522	08/22/91	0001	MB	O			224		-	-
	0522	10/12/92	0001	MB	O			212		-	-
	0525	12/08/90	0001	MB	O			264.		-	-
	0525	04/03/91	0001	MB	O			266.		-	-
	0525	08/26/91	0001	MB	O			276		-	-
	0525	10/14/92	0001	MB	O			268		-	-
	0526	06/06/90	0001	MB	O			243.		-	-
	0526	12/12/90	0001	MB	O			233.		-	-
	0526	04/04/91	0001	MB	O			222.		-	-
	0526	08/21/91	0001	MB	O			232		-	-
	0526	10/14/92	0001	MB	O			234		-	-
	0528	06/06/90	0001	MB	O			230.		-	-
	0528	12/15/90	0001	MB	O			207.		-	-
	0528	04/02/91	0001	MB	O			209.		-	-
	0528	08/21/91	0001	MB	O			212		-	-
	0528	10/13/92	0001	MB	O			219		-	-
ALUMINUM	0516	06/06/90	0001	MB	O	MG/L	<	0.1		0.1	-
	0516	12/08/90	0001	MB	O		<	0.1		0.1	-
	0516	04/04/91	0001	MB	O		<	0.05		0.05	-
	0516	08/26/91	0001	MB	O		<	0.05		0.05	-
	0516	10/14/92	0001	MB	O		<	0.05		0.05	-
	0520	06/04/90	0001	MB	O		<	0.1		0.1	-
	0520	12/12/90	0001	MB	O		<	0.1		0.1	-
	0520	04/01/91	0001	MB	O		<	0.05		0.05	-
	0520	08/22/91	0001	MB	O		<	0.05		0.05	-
	0520	10/11/92	0001	MB	O		<	0.05		0.05	-
	0522	06/04/90	0001	MB	O		<	0.1		0.1	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

58 22.2
6/15/93

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALUMINUM	0522	12/08/90	0001	MB	O	MG/L	<	0.1		0.1	-
	0522	04/02/91	0001	MB	O		<	0.05		0.05	-
	0522	08/22/91	0001	MB	O		<	0.05		0.05	-
	0522	10/12/92	0001	MB	O		<	0.05		0.05	-
	0525	12/08/90	0001	MB	O		<	0.1		0.1	-
	0525	04/03/91	0001	MB	O		<	0.05		0.05	-
	0525	08/26/91	0001	MB	O		<	0.05		0.05	-
	0525	10/14/92	0001	MB	O		<	0.05		0.05	-
	0526	06/06/90	0001	MB	O		<	0.1		0.1	-
	0526	12/12/90	0001	MB	O		<	0.1		0.1	-
	0526	04/04/91	0001	MB	O		<	0.05		0.05	-
	0526	08/21/91	0001	MB	O		<	0.05		0.05	-
	0526	10/14/92	0001	MB	O		<	0.05		0.05	-
	0528	06/06/90	0001	MB	O		<	0.1		0.1	-
	0528	12/15/90	0001	MB	O		<	0.1		0.1	-
	0528	04/02/91	0001	MB	O		<	0.05		0.05	-
	0528	08/21/91	0001	MB	O		<	0.05		0.05	-
	0528	10/13/92	0001	MB	O		<	0.05		0.05	-
AMMONIUM	0516	06/06/90	0001	MB	O	MG/L	<	0.1		0.1	-
	0516	12/08/90	0001	MB	O			0.1		0.1	-
	0516	04/04/91	0001	MB	O			0.3		0.1	-
	0516	08/26/91	0001	MB	O			0.4		0.1	-
	0520	06/04/90	0001	MB	O		<	0.1		0.1	-
	0520	12/12/90	0001	MB	O			0.1		0.1	-
	0520	04/01/91	0001	MB	O			0.3		0.1	-
	0520	08/22/91	0001	MB	O			0.3		0.1	-
	0520	10/11/92	0001	MB	O			0.4		0.1	-
	0522	06/04/90	0001	MB	O		<	0.1		0.1	-
	0522	12/08/90	0001	MB	O		<	0.1		0.1	-
	0522	04/02/91	0001	MB	O			0.2		0.1	-
	0522	08/22/91	0001	MB	O			0.3		0.1	-
	0522	10/12/92	0001	MB	O			0.2		0.1	-
	0525	12/08/90	0001	MB	O		<	0.1		0.1	-
	0525	04/03/91	0001	MB	O			0.3		0.1	-
	0525	08/26/91	0001	MB	O			0.3		0.1	-
	0526	06/06/90	0001	MB	O		<	0.1		0.1	-
	0526	12/12/90	0001	MB	O		<	0.1		0.1	-
	0526	04/04/91	0001	MB	O			0.3		0.1	-
	0526	08/21/91	0001	MB	O			0.3		0.1	-
	0526	10/14/92	0001	MB	O			0.5		0.1	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

35

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
AMMONIUM	0528	06/06/90	0001	MB	0	MG/L	<	0.1		0.1	-
	0528	12/15/90	0001	MB	0		<	0.1		0.1	-
	0528	04/02/91	0001	MB	0			0.2		0.1	-
	0528	08/21/91	0001	MB	0			0.1		0.1	-
	0528	10/13/92	0001	MB	0		<	0.1		0.1	-
ANTIMONY	0516	06/06/90	0001	MB	0	MG/L	<	0.003		0.003	-
	0516	12/08/90	0001	MB	0			0.006		0.003	-
	0516	04/04/91	0001	MB	0		<	0.003		0.003	-
	0516	08/26/91	0001	MB	0		<	0.003		0.003	-
	0516	10/14/92	0001	MB	0		<	0.003		0.003	-
	0520	06/04/90	0001	MB	0		<	0.003		0.003	-
	0520	12/12/90	0001	MB	0		<	0.003		0.003	-
	0520	04/01/91	0001	MB	0		<	0.005	I	0.005	-
	0520	08/22/91	0001	MB	0		<	0.003		0.003	-
	0520	10/11/92	0001	MB	0		<	0.003		0.003	-
	0522	06/04/90	0001	MB	0		<	0.003		0.003	-
	0522	12/08/90	0001	MB	0		<	0.003		0.003	-
	0522	04/02/91	0001	MB	0		<	0.005	I	0.005	-
	0522	08/22/91	0001	MB	0		<	0.003		0.003	-
	0522	10/12/92	0001	MB	0		<	0.003		0.003	-
	0525	12/08/90	0001	MB	0		<	0.003		0.003	-
	0525	04/03/91	0001	MB	0		<	0.005	I	0.005	-
	0525	08/26/91	0001	MB	0		<	0.003		0.003	-
	0525	10/14/92	0001	MB	0		<	0.003		0.003	-
	0526	06/06/90	0001	MB	0		<	0.003		0.003	-
	0526	12/12/90	0001	MB	0		<	0.003		0.003	-
	0526	04/04/91	0001	MB	0		<	0.005	I	0.005	-
	0526	08/21/91	0001	MB	0		<	0.003		0.003	-
	0526	10/14/92	0001	MB	0		<	0.003		0.003	-
	0528	06/06/90	0001	MB	0		<	0.003		0.003	-
	0528	12/15/90	0001	MB	0		<	0.003		0.003	-
	0528	04/02/91	0001	MB	0		<	0.005	I	0.005	-
	0528	08/21/91	0001	MB	0		<	0.003		0.003	-
	0528	10/13/92	0001	MB	0		<	0.003		0.003	-
ARSENIC	0516	06/06/90	0001	MB	0	MG/L	<	0.01		0.01	-
	0516	12/08/90	0001	MB	0		<	0.01		0.01	-
	0516	04/04/91	0001	MB	0		<	0.01		0.01	-
	0516	08/26/91	0001	MB	0		<	0.01		0.01	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

40 J.A.
6/15/9

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ARSENIC	0516	10/14/92	0001	MB	0	MG/L	<	0.005		0.005	-
	0520	06/04/90	0001	MB	0		<	0.01		0.01	-
	0520	12/12/90	0001	MB	0		<	0.01		0.01	-
	0520	04/01/91	0001	MB	0		<	0.01		0.01	-
	0520	08/22/91	0001	MB	0		<	0.01		0.01	-
	0520	10/11/92	0001	MB	0		<	0.005		0.005	-
	0522	06/04/90	0001	MB	0		<	0.01		0.01	-
	0522	12/08/90	0001	MB	0		<	0.01		0.01	-
	0522	04/02/91	0001	MB	0		<	0.01		0.01	-
	0522	08/22/91	0001	MB	0		<	0.01		0.01	-
	0522	10/12/92	0001	MB	0		<	0.005		0.005	-
	0525	12/08/90	0001	MB	0		<	0.01		0.01	-
	0525	04/03/91	0001	MB	0		<	0.01		0.01	-
	0525	08/26/91	0001	MB	0		<	0.01		0.01	-
	0525	10/14/92	0001	MB	0		<	0.005		0.005	-
	0526	06/06/90	0001	MB	0		<	0.01		0.01	-
	0526	12/12/90	0001	MB	0		<	0.01		0.01	-
	0526	04/04/91	0001	MB	0		<	0.01		0.01	-
	0526	08/21/91	0001	MB	0		<	0.01		0.01	-
	0526	10/14/92	0001	MB	0		<	0.005		0.005	-
	0528	06/06/90	0001	MB	0		<	0.01		0.01	-
	0528	12/15/90	0001	MB	0		<	0.01		0.01	-
	0528	04/02/91	0001	MB	0		<	0.01		0.01	-
	0528	08/21/91	0001	MB	0		<	0.01		0.01	-
	0528	10/13/92	0001	MB	0		<	0.005		0.005	-
BARIUM	0516	06/06/90	0001	MB	0	MG/L	<	0.1		0.1	-
	0516	12/08/90	0001	MB	0		<	0.1		0.1	-
	0516	04/04/91	0001	MB	0			0.02		0.01	-
	0516	08/26/91	0001	MB	0			0.04		0.01	-
	0516	10/14/92	0001	MB	0			0.02		0.01	-
	0520	06/04/90	0001	MB	0		<	0.1		0.1	-
	0520	12/12/90	0001	MB	0		<	0.1		0.1	-
	0520	04/01/91	0001	MB	0			0.02		0.01	-
	0520	08/22/91	0001	MB	0			0.02		0.01	-
	0520	10/11/92	0001	MB	0			0.03		0.01	-
	0522	06/04/90	0001	MB	0		<	0.1		0.1	-
	0522	12/08/90	0001	MB	0		<	0.1		0.1	-
	0522	04/02/91	0001	MB	0			0.02		0.01	-
	0522	08/22/91	0001	MB	0			0.02		0.01	-
	0522	10/12/92	0001	MB	0			0.01		0.01	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

34

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BARIUM	0525	12/08/90	0001	MB	O	MG/L	< 0.1		0.1	-
	0525	04/03/91	0001	MB	O		0.02		0.01	-
	0525	08/26/91	0001	MB	O		0.02		0.01	-
	0525	10/14/92	0001	MB	O		0.02		0.01	-
	0526	06/06/90	0001	MB	O		< 0.1		0.1	-
	0526	12/12/90	0001	MB	O		< 0.1		0.1	-
	0526	04/04/91	0001	MB	O		0.02		0.01	-
	0526	08/21/91	0001	MB	O		0.02		0.01	-
	0526	10/14/92	0001	MB	O		0.01		0.01	-
	0528	06/06/90	0001	MB	O		< 0.1		0.1	-
	0528	12/15/90	0001	MB	O		< 0.1		0.1	-
	0528	04/02/91	0001	MB	O		0.02		0.01	-
	0528	08/21/91	0001	MB	O		0.02		0.01	-
	0528	10/13/92	0001	MB	O		0.02		0.01	-
BERYLLIUM	0516	06/06/90	0001	MB	O	MG/L	< 0.01		0.01	-
	0516	12/08/90	0001	MB	O		< 0.01		0.01	-
	0516	04/04/91	0001	MB	O		< 0.005		0.005	-
	0516	08/26/91	0001	MB	O		< 0.005		0.005	-
	0520	06/04/90	0001	MB	O		< 0.01		0.01	-
	0520	12/12/90	0001	MB	O		< 0.01		0.01	-
	0520	04/01/91	0001	MB	O		< 0.005		0.005	-
	0520	08/22/91	0001	MB	O		< 0.005		0.005	-
	0522	06/04/90	0001	MB	O		< 0.01		0.01	-
	0522	12/08/90	0001	MB	O		< 0.01		0.01	-
	0522	04/02/91	0001	MB	O		< 0.005		0.005	-
	0522	08/22/91	0001	MB	O		< 0.005		0.005	-
	0525	12/08/90	0001	MB	O		< 0.01		0.01	-
	0525	04/03/91	0001	MB	O		< 0.005		0.005	-
	0525	08/26/91	0001	MB	O		< 0.005		0.005	-
	0526	06/06/90	0001	MB	O		< 0.01		0.01	-
	0526	12/12/90	0001	MB	O		< 0.01		0.01	-
	0526	04/04/91	0001	MB	O		< 0.005		0.005	-
	0526	08/21/91	0001	MB	O		< 0.005		0.005	-
	0528	06/06/90	0001	MB	O		< 0.01		0.01	-
	0528	12/15/90	0001	MB	O		< 0.01		0.01	-
	0528	04/02/91	0001	MB	O		< 0.005		0.005	-
	0528	08/21/91	0001	MB	O		< 0.005		0.005	-
BORON	0516	06/06/90	0001	MB	O	MG/L	0.2		0.1	-
	0516	12/08/90	0001	MB	O		0.2		0.1	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

42 20.
6/15/93

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BORON	0516	04/04/91	0001	MB	0	MG/L		0.19		0.05	-
	0516	08/26/91	0001	MB	0			0.16		0.05	-
	0520	06/04/90	0001	MB	0			0.2		0.1	-
	0520	12/12/90	0001	MB	0			0.2		0.1	-
	0520	04/01/91	0001	MB	0			0.20		0.05	-
	0520	08/22/91	0001	MB	0			0.19		0.05	-
	0522	06/04/90	0001	MB	0			0.1		0.1	-
	0522	12/08/90	0001	MB	0			0.2		0.1	-
	0522	04/02/91	0001	MB	0			0.16		0.05	-
	0522	08/22/91	0001	MB	0			0.15		0.05	-
	0525	12/08/90	0001	MB	0			0.2		0.1	-
	0525	04/03/91	0001	MB	0			0.20		0.05	-
	0525	08/26/91	0001	MB	0			0.18		0.05	-
	0526	06/06/90	0001	MB	0			0.2		0.1	-
	0526	12/12/90	0001	MB	0			0.1		0.1	-
	0526	04/04/91	0001	MB	0			0.15		0.05	-
	0526	08/21/91	0001	MB	0			0.14		0.05	-
	0528	06/06/90	0001	MB	0			0.1		0.1	-
	0528	12/15/90	0001	MB	0			0.1		0.1	-
	0528	04/02/91	0001	MB	0			0.11		0.05	-
	0528	08/21/91	0001	MB	0			0.11		0.05	-
BROMIDE	0516	04/04/91	0001	MB	0	MG/L		0.5		0.1	-
	0516	08/26/91	0001	MB	0			0.2		0.1	-
	0516	10/14/92	0001	MB	0		<	0.8	I	0.8	-
	0520	04/01/91	0001	MB	0			0.3		0.1	-
	0520	08/22/91	0001	MB	0			0.2		0.1	-
	0520	10/11/92	0001	MB	0		<	0.2	I	0.2	-
	0522	04/02/91	0001	MB	0			0.3		0.1	-
	0522	08/22/91	0001	MB	0			0.2		0.1	-
	0522	10/12/92	0001	MB	0		<	0.2	I	0.2	-
	0525	04/03/91	0001	MB	0			0.2		0.1	-
	0525	08/26/91	0001	MB	0			0.2		0.1	-
	0525	10/14/92	0001	MB	0		<	0.5	I	0.5	-
	0526	04/04/91	0001	MB	0			0.2		0.1	-
	0526	08/21/91	0001	MB	0			0.2		0.1	-
	0526	10/14/92	0001	MB	0		<	0.2	I	0.2	-
	0528	04/02/91	0001	MB	0			0.2		0.1	-
	0528	08/21/91	0001	MB	0			0.2		0.1	-
	0528	10/13/92	0001	MB	0		<	0.2	I	0.2	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

43 D.A.
6/15/93

40

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP REL.	UNITS OF MEASURE	PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CADMIUM	0516	06/06/90	0001	MB	0	<	0.001	0.001	-
	0516	12/08/90	0001	MB	0	<	0.001	0.001	-
	0516	04/04/91	0001	MB	0	<	0.0005	0.0005	-
	0516	08/26/91	0001	MB	0	<	0.001	0.001	-
	0516	10/14/92	0001	MB	0	<	0.005	0.005	-
	0520	06/04/90	0001	MB	0	<	0.001	0.001	-
	0520	12/12/90	0001	MB	0	<	0.001	0.001	-
	0520	04/01/91	0001	MB	0	<	0.0005	0.0005	-
	0520	08/22/91	0001	MB	0	<	0.001	0.001	-
	0520	10/11/92	0001	MB	0	<	0.001	0.001	-
	0522	06/04/90	0001	MB	0	<	0.001	0.001	-
	0522	12/08/90	0001	MB	0	<	0.0005	0.0005	-
	0522	04/02/91	0001	MB	0	<	0.001	0.001	-
	0522	08/22/91	0001	MB	0	<	0.001	0.001	-
	0522	10/12/92	0001	MB	0	<	0.001	0.001	-
	0525	12/08/90	0001	MB	0	<	0.001	0.001	-
	0525	04/03/91	0001	MB	0	<	0.0005	0.0005	-
	0525	08/26/91	0001	MB	0	<	0.001	0.001	-
	0525	10/14/92	0001	MB	0	<	0.001	0.001	-
	0526	06/06/90	0001	MB	0	<	0.001	0.001	-
	0526	12/12/90	0001	MB	0	<	0.001	0.001	-
	0526	04/04/91	0001	MB	0	<	0.0005	0.0005	-
	0526	08/21/91	0001	MB	0	<	0.001	0.001	-
	0526	10/14/92	0001	MB	0	<	0.001	0.001	-
	0528	06/06/90	0001	MB	0	<	0.001	0.001	-
	0528	12/15/90	0001	MB	0	<	0.001	0.001	-
	0528	04/02/91	0001	MB	0	<	0.0005	0.0005	-
	0528	08/21/91	0001	MB	0	<	0.001	0.001	-
	0528	10/13/92	0001	MB	0	<	0.001	0.001	-
CALCIUM	0516	06/06/90	0001	MB	0		47.7	0.01	-
	0516	12/08/90	0001	MB	0		45.2	0.01	-
	0516	04/04/91	0001	MB	0		45.7	0.5	-
	0516	08/26/91	0001	MB	0		49.1	0.5	-
	0516	10/14/92	0001	MB	0		44.5	0.5	-
	0520	06/04/90	0001	MB	0		82.5	0.01	-
	0520	12/12/90	0001	MB	0		80.5	0.01	-
	0520	04/01/91	0001	MB	0		85.5	0.5	-
	0520	08/22/91	0001	MB	0		84.6	0.5	-
	0520	10/11/92	0001	MB	0		73.1	0.5	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (<.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

44 J.D.
6/15/92

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CALCIUM	0522	06/04/90	0001	MB	0	MG/L	63.8		0.01	-
	0522	12/08/90	0001	MB	0		60.4		0.01	-
	0522	04/02/91	0001	MB	0		65.2		0.5	-
	0522	08/22/91	0001	MB	0		62.9		0.5	-
	0522	10/12/92	0001	MB	0		60.7		0.5	-
	0525	12/08/90	0001	MB	0		53.4		0.01	-
	0525	04/03/91	0001	MB	0		57.4		0.5	-
	0525	08/26/91	0001	MB	0		56.1		0.5	-
	0525	10/14/92	0001	MB	0		48.4		0.5	-
	0526	06/06/90	0001	MB	0		53.2		0.01	-
	0526	12/12/90	0001	MB	0		51.6		0.01	-
	0526	04/04/91	0001	MB	0		57.2		0.5	-
	0526	08/21/91	0001	MB	0		54.1		0.5	-
	0526	10/14/92	0001	MB	0		53.4		0.5	-
	0528	06/06/90	0001	MB	0		59.6		0.01	-
	0528	12/15/90	0001	MB	0		58.3		0.01	-
	0528	04/02/91	0001	MB	0		61.0		0.5	-
	0528	08/21/91	0001	MB	0		61.2		0.5	-
	0528	10/13/92	0001	MB	0		59.1		0.5	-
CHLORIDE	0516	06/06/90	0001	MB	0	MG/L	27.		1.	-
	0516	12/08/90	0001	MB	0		28.		1.	-
	0516	04/04/91	0001	MB	0		28.		0.5	-
	0516	08/26/91	0001	MB	0		21.		1.	-
	0516	10/14/92	0001	MB	0		25.		1.	-
	0520	06/04/90	0001	MB	0		27.		1.	-
	0520	12/12/90	0001	MB	0		30.		1.	-
	0520	04/01/91	0001	MB	0		31.		0.5	-
	0520	08/22/91	0001	MB	0		29.		1.	-
	0520	10/11/92	0001	MB	0		31.		1.	-
	0522	06/04/90	0001	MB	0		20.		1.	-
	0522	12/08/90	0001	MB	0		25.		1.	-
	0522	04/02/91	0001	MB	0		23.		0.5	-
	0522	08/22/91	0001	MB	0		22.		1.	-
	0522	10/12/92	0001	MB	0		23.		1.	-
	0525	12/08/90	0001	MB	0		44.		1.	-
	0525	04/03/91	0001	MB	0		40.		0.5	-
	0525	08/26/91	0001	MB	0		40.		1.	-
	0525	10/14/92	0001	MB	0		59.		1.	-
	0526	06/06/90	0001	MB	0		24.		1.	-
	0526	12/12/90	0001	MB	0		23.		1.	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

14

45 D.2
6/15/92

42

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CHLORIDE	0526	04/04/91	0001	MB	0	MG/L	21.		0.5	-
	0526	08/21/91	0001	MB	0		20.		1.	-
	0526	10/14/92	0001	MB	0		21.		1.	-
	0528	06/06/90	0001	MB	0		23.		1.	-
	0528	12/15/90	0001	MB	0		21.		1.	-
	0528	04/02/91	0001	MB	0		20.4		0.5	-
	0528	08/21/91	0001	MB	0		21.		0.5	-
	0528	10/13/92	0001	MB	0		21.0		0.5	-
	0516	06/06/90	0001	MB	0	MG/L	0.01		0.01	-
	0516	12/08/90	0001	MB	0		0.01		0.01	-
CHROMIUM	0516	04/04/91	0001	MB	0		0.01		0.01	-
	0516	08/26/91	0001	MB	0		0.01		0.01	-
	0516	10/14/92	0001	MB	0		0.01		0.01	-
	0520	06/04/90	0001	MB	0		0.01		0.01	-
	0520	12/12/90	0001	MB	0		0.01		0.01	-
	0520	04/01/91	0001	MB	0		0.01		0.01	-
	0520	08/22/91	0001	MB	0		0.01		0.01	-
	0520	10/11/92	0001	MB	0		0.01		0.01	-
	0522	06/04/90	0001	MB	0		0.01		0.01	-
	0522	12/08/90	0001	MB	0		0.01		0.01	-
	0522	04/02/91	0001	MB	0		0.01		0.01	-
	0522	08/22/91	0001	MB	0		0.01		0.01	-
	0522	10/12/92	0001	MB	0		0.01		0.01	-
	0525	12/08/90	0001	MB	0		0.01		0.01	-
	0525	04/03/91	0001	MB	0		0.01		0.01	-
	0525	08/26/91	0001	MB	0		0.01		0.01	-
	0525	10/14/92	0001	MB	0		0.01		0.01	-
	0526	06/06/90	0001	MB	0		0.01		0.01	-
	0526	12/12/90	0001	MB	0		0.01		0.01	-
	0526	04/04/91	0001	MB	0		0.01		0.01	-
	0526	08/21/91	0001	MB	0		0.01		0.01	-
COBALT	0516	06/06/90	0001	MB	0	MG/L	0.05		0.05	-
	0516	12/08/90	0001	MB	0		0.05		0.05	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

FLOW RELATIONSHIP CODE:
0 - ON-SITE

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

46 DJ
6/15/93

43

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
COBALT	0516	04/04/91	0001	MB	O	Mg/L	<		0.03	-
	0516	08/26/91	0001	MB	O		<		0.03	-
	0520	06/04/90	0001	MB	O		<		0.05	-
	0520	12/12/90	0001	MB	O		<		0.05	-
	0520	04/01/91	0001	MB	O		<		0.03	-
	0520	08/22/91	0001	MB	O		<		0.03	-
	0522	06/04/90	0001	MB	O		<		0.05	-
	0522	12/08/90	0001	MB	O		<		0.05	-
	0522	04/02/91	0001	MB	O		<		0.03	-
	0522	08/22/91	0001	MB	O		<		0.03	-
	0525	12/08/90	0001	MB	O		<		0.05	-
	0525	04/03/91	0001	MB	O		<		0.03	-
	0525	08/26/91	0001	MB	O		<		0.03	-
	0526	06/06/90	0001	MB	O		<		0.05	-
	0526	12/12/90	0001	MB	O		<		0.05	-
	0526	04/04/91	0001	MB	O		<		0.03	-
	0526	08/21/91	0001	MB	O		<		0.03	-
	0528	06/06/90	0001	MB	O		<		0.05	-
	0528	12/15/90	0001	MB	O		<		0.05	-
	0528	04/02/91	0001	MB	O		<		0.03	-
	0528	08/21/91	0001	MB	O		<		0.03	-
COPPER	0516	06/06/90	0001	MB	O	Mg/L	<		0.02	-
	0516	12/08/90	0001	MB	O		<		0.02	-
	0516	04/04/91	0001	MB	O		<		0.01	-
	0516	08/26/91	0001	MB	O		<		0.01	-
	0516	10/14/92	0001	MB	O		<		0.01	-
	0520	06/04/90	0001	MB	O		<		0.02	-
	0520	12/12/90	0001	MB	O		<		0.02	-
	0520	04/01/91	0001	MB	O		<		0.01	-
	0520	08/22/91	0001	MB	O		<		0.01	-
	0520	10/11/92	0001	MB	O		<		0.01	-
	0522	06/04/90	0001	MB	O		<		0.02	-
	0522	12/08/90	0001	MB	O		<		0.02	-
	0522	04/02/91	0001	MB	O		<		0.01	-
	0522	08/22/91	0001	MB	O		<		0.01	-
	0522	10/12/92	0001	MB	O		<		0.01	-
	0525	12/08/90	0001	MB	O		<		0.02	-
	0525	04/03/91	0001	MB	O		<		0.01	-
	0525	08/26/91	0001	MB	O		<		0.01	-
	0525	10/14/92	0001	MB	O		<		0.01	-
	0525	08/26/91	0001	MB	O		<		0.01	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

FLOW RELATIONSHIP CODE:
O - ON-SITE

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

47 J.D.
6/15/93

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
COPPER	0526	06/06/90	0001	MB	O	MG/L	<	0.02		0.02	-
	0526	12/12/90	0001	MB	O		<	0.02		0.02	-
	0526	04/04/91	0001	MB	O		<	0.01		0.01	-
	0526	08/21/91	0001	MB	O		<	0.01		0.01	-
	0526	10/14/92	0001	MB	O		<	0.01		0.01	-
	0528	06/06/90	0001	MB	O		<	0.02		0.02	-
	0528	12/15/90	0001	MB	O		<	0.02		0.02	-
	0528	04/02/91	0001	MB	O		<	0.01		0.01	-
	0528	08/21/91	0001	MB	O		<	0.01		0.01	-
	0528	10/13/92	0001	MB	O		<	0.01		0.01	-
CYANIDE	0516	12/08/90	0001	MB	O	MG/L	<	0.01		0.01	-
	0516	04/04/91	0001	MB	O		<	0.01		0.01	-
	0516	08/26/91	0001	MB	O		<	0.01		0.01	-
	0520	12/12/90	0001	MB	O		<	0.01		0.01	-
	0520	04/01/91	0001	MB	O		<	0.01		0.01	-
	0520	08/22/91	0001	MB	O		<	0.01		0.01	-
	0522	12/08/90	0001	MB	O		<	0.01		0.01	-
	0522	04/02/91	0001	MB	O		<	0.01		0.01	-
	0522	08/22/91	0001	MB	O		<	0.01		0.01	-
	0525	12/08/90	0001	MB	O		<	0.01		0.01	-
	0525	04/03/91	0001	MB	O		<	0.01		0.01	-
	0525	08/26/91	0001	MB	O		<	0.01		0.01	-
	0526	12/12/90	0001	MB	O		<	0.01		0.01	-
	0526	04/04/91	0001	MB	O		<	0.01		0.01	-
	0526	08/21/91	0001	MB	O		<	0.01		0.01	-
	0528	12/15/90	0001	MB	O		<	0.01		0.01	-
	0528	04/02/91	0001	MB	O		<	0.01		0.01	-
	0528	08/21/91	0001	MB	O		<	0.01		0.01	-
DISSOLVED OXYGEN	0516	10/14/92	0001	MB	O	MG/L		0.4		-	-
	0520	10/11/92	0001	MB	O			3.8		-	-
	0522	10/12/92	0001	MB	O			0.5		-	-
	0525	10/14/92	0001	MB	O			5.0		-	-
	0526	10/14/92	0001	MB	O			0.1		-	-
	0528	10/13/92	0001	MB	O			0.9		-	-
FIELD FE (2+)	0522	10/12/92	0001	MB	O	MG/L		0.1		-	-
	0526	10/14/92	0001	MB	O			0.02		-	-
FLUORIDE	0516	06/06/90	0001	MB	O	MG/L		0.7		0.1	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

44

48 Q1
6/15/93

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
FLUORIDE	0516	12/08/90	0001	MB	O	MG/L	0.8		0.1	-
	0516	04/04/91	0001	MB	O		0.6		0.1	-
	0516	08/26/91	0001	MB	O		0.6		0.1	-
	0516	10/14/92	0001	MB	O		0.7		0.1	-
	0520	06/04/90	0001	MB	O		0.6		0.1	-
	0520	12/12/90	0001	MB	O		0.7		0.1	-
	0520	04/01/91	0001	MB	O		0.6		0.1	-
	0520	08/22/91	0001	MB	O		0.6		0.1	-
	0520	10/11/92	0001	MB	O		0.7		0.1	-
	0522	06/04/90	0001	MB	O		0.8		0.1	-
	0522	12/08/90	0001	MB	O		1.0		0.1	-
	0522	04/02/91	0001	MB	O		0.8		0.1	-
	0522	08/22/91	0001	MB	O		0.9		0.1	-
	0522	10/12/92	0001	MB	O		1.0		0.1	-
	0525	12/08/90	0001	MB	O		0.7		0.1	-
	0525	04/03/91	0001	MB	O		0.6		0.1	-
	0525	08/26/91	0001	MB	O		0.6		0.1	-
	0525	10/14/92	0001	MB	O		0.7		0.1	-
	0526	06/06/90	0001	MB	O		0.6		0.1	-
	0526	12/12/90	0001	MB	O		0.6		0.1	-
	0526	04/04/91	0001	MB	O		0.6		0.1	-
	0526	08/21/91	0001	MB	O		0.6		0.1	-
	0526	10/14/92	0001	MB	O		0.6		0.1	-
	0528	06/06/90	0001	MB	O		0.5		0.1	-
	0528	12/15/90	0001	MB	O		0.6		0.1	-
	0528	04/02/91	0001	MB	O		0.6		0.1	-
	0528	08/21/91	0001	MB	O		0.6		0.1	-
	0528	10/13/92	0001	MB	O		0.6		0.1	-
GROSS ALPHA	0516	12/08/90	0001	MB	O	PCI/L	3.3		1.	4.0
	0516	04/04/91	0001	MB	O		3.6		1.	5.8
	0516	08/26/91	0001	MB	O		1.9		1.	9.2
	0516	10/14/92	0001	MB	O		0.0	N	9.6	5.0
	0520	12/12/90	0001	MB	O		3.8		1.	4.6
	0520	04/01/91	0001	MB	O		4.4		1.	6.4
	0520	08/22/91	0001	MB	O		2.2		1.	10.3
	0520	10/11/92	0001	MB	O		0.0	N	12.0	6.6
	0522	12/08/90	0001	MB	O		1.9		1.	3.5
	0522	04/02/91	0001	MB	O		0.0		1.	4.5
	0522	08/22/91	0001	MB	O		4.0		1.	8.2

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS

45

47 530
6/15/93

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
GROSS ALPHA	0522	10/12/92	0001	MB	0	PCI/L	0.0	N	11.1	5.9
	0525	12/08/90	0001	MB	0		4.1		1.	5.8
	0525	04/03/91	0001	MB	0		0.0		1.	6.0
	0525	08/26/91	0001	MB	0		6.4		1.	11.1
	0525	10/14/92	0001	MB	0		0.0	N	12.2	6.3
	0526	12/12/90	0001	MB	0		3.4	b	1.	3.4
	0526	04/04/91	0001	MB	0		1.4		1.	5.1
	0526	08/21/91	0001	MB	0		0.0		1.	8.1
	0526	10/14/92	0001	MB	0		0.0	N	8.7	4.7
	0528	12/15/90	0001	MB	0		5.3		1.	3.5
	0528	04/02/91	0001	MB	0		0.3		1.	4.1
	0528	08/21/91	0001	MB	0		3.4		1.	8.4
	0528	10/13/92	0001	MB	0		0.0	N	8.5	4.8
GROSS BETA	0516	12/08/90	0001	MB	0	PCI/L	5.9		0.5	2.9
	0516	04/04/91	0001	MB	0		3.6		0.5	3.5
	0516	08/26/91	0001	MB	0		4.1		0.5	6.5
	0516	10/14/92	0001	MB	0		5.2	*N	8.8	5.5
	0520	12/12/90	0001	MB	0		6.1		0.5	2.9
	0520	04/01/91	0001	MB	0		0.8		0.5	3.6
	0520	08/22/91	0001	MB	0		12.9		0.5	7.8
	0520	10/11/92	0001	MB	0		0.0	*N	10.5	6.0
	0522	12/08/90	0001	MB	0		3.9		0.5	2.4
	0522	04/02/91	0001	MB	0		1.3		0.5	3.3
	0522	08/22/91	0001	MB	0		5.4		0.5	6.2
	0522	10/12/92	0001	MB	0		0.0	*N	9.8	5.5
	0525	12/08/90	0001	MB	0		6.5		0.5	3.2
	0525	04/03/91	0001	MB	0		3.1		0.5	3.9
	0525	08/26/91	0001	MB	0		0.0		0.5	7.6
	0525	10/14/92	0001	MB	0		0.0	*N	10.6	6.3
	0526	12/12/90	0001	MB	0		6.2		0.5	2.7
	0526	04/04/91	0001	MB	0		1.4		0.5	3.1
	0526	08/21/91	0001	MB	0		6.3		0.5	6.8
	0526	10/14/92	0001	MB	0		0.5	*N	7.8	4.6
	0528	12/15/90	0001	MB	0		5.4		0.5	2.3
	0528	04/02/91	0001	MB	0		1.6		0.5	2.6
	0528	08/21/91	0001	MB	0		4.2		0.5	6.3
	0528	10/13/92	0001	MB	0		0.0	*N	7.7	4.2

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
• - DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS
N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS
b - CHANGED PARAMETER VALUE

76

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6/5/

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
IRON	0516	06/06/90	0001	MB	0	MG/L	< 0.03		0.03	-
	0516	12/08/90	0001	MB	0		< 0.03		0.03	-
	0516	04/04/91	0001	MB	0		0.05		0.03	-
	0516	08/26/91	0001	MB	0		< 0.03		0.03	-
	0516	10/14/92	0001	MB	0		0.03		0.03	-
	0520	06/04/90	0001	MB	0		0.05		0.03	-
	0520	12/12/90	0001	MB	0		< 0.03		0.03	-
	0520	04/01/91	0001	MB	0		0.03		0.03	-
	0520	08/22/91	0001	MB	0		< 0.03		0.03	-
	0520	10/11/92	0001	MB	0		< 0.03		0.03	-
	0522	06/04/90	0001	MB	0		0.05		0.03	-
	0522	12/08/90	0001	MB	0		0.06		0.03	-
	0522	04/02/91	0001	MB	0		0.06		0.03	-
	0522	08/22/91	0001	MB	0		0.05		0.03	-
	0522	10/12/92	0001	MB	0		0.11		0.03	-
	0525	12/08/90	0001	MB	0		< 0.03		0.03	-
	0525	04/03/91	0001	MB	0		< 0.03		0.03	-
	0525	08/26/91	0001	MB	0		< 0.03		0.03	-
	0525	10/14/92	0001	MB	0		< 0.03		0.03	-
	0526	06/06/90	0001	MB	0		< 0.03		0.03	-
	0526	12/12/90	0001	MB	0		< 0.03		0.03	-
	0526	04/04/91	0001	MB	0		< 0.03		0.03	-
	0526	08/21/91	0001	MB	0		0.08		0.03	-
	0526	10/14/92	0001	MB	0		0.03		0.03	-
	0528	06/06/90	0001	MB	0		0.06		0.03	-
	0528	12/15/90	0001	MB	0		0.09		0.03	-
	0528	04/02/91	0001	MB	0		0.11		0.03	-
	0528	08/21/91	0001	MB	0		0.12		0.03	-
	0528	10/13/92	0001	MB	0		0.09		0.03	-
LEAD	0516	06/06/90	0001	MB	0	MG/L	< 0.01		0.01	-
	0516	12/08/90	0001	MB	0		< 0.01		0.01	-
	0516	04/04/91	0001	MB	0		< 0.005		0.005	-
	0516	08/26/91	0001	MB	0		< 0.005		0.005	-
	0516	10/14/92	0001	MB	0		< 0.02	1	0.02	-
	0520	06/04/90	0001	MB	0		< 0.01		0.01	-
	0520	12/12/90	0001	MB	0		< 0.01		0.01	-
	0520	04/01/91	0001	MB	0		< 0.005		0.005	-
	0520	08/22/91	0001	MB	0		< 0.005		0.005	-
	0520	10/11/92	0001	MB	0		< 0.003		0.003	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

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51 20.
6/15/93

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
LEAD	0522	06/04/90	0001	MB	O	MG/L	<	0.01		0.01	-
	0522	12/08/90	0001	MB	O		<	0.01		0.01	-
	0522	04/02/91	0001	MB	O		<	0.005		0.005	-
	0522	08/22/91	0001	MB	O		<	0.005		0.005	-
	0522	10/12/92	0001	MB	O		<	0.003		0.003	-
	0525	12/08/90	0001	MB	O		<	0.01		0.01	-
	0525	04/03/91	0001	MB	O		<	0.005		0.005	-
	0525	08/26/91	0001	MB	O		<	0.005		0.005	-
	0525	10/14/92	0001	MB	O		<	0.003		0.003	-
	0526	06/06/90	0001	MB	O		<	0.01		0.01	-
	0526	12/12/90	0001	MB	O		<	0.01		0.01	-
	0526	04/04/91	0001	MB	O		<	0.005		0.005	-
	0526	08/21/91	0001	MB	O		<	0.005		0.005	-
	0526	10/14/92	0001	MB	O		<	0.003		0.003	-
	0528	06/06/90	0001	MB	O		<	0.01		0.01	-
	0528	12/15/90	0001	MB	O		<	0.01		0.01	-
	0528	04/02/91	0001	MB	O		<	0.005		0.005	-
	0528	08/21/91	0001	MB	O		<	0.005		0.005	-
	0528	10/13/92	0001	MB	O		<	0.003		0.003	-
LEAD-210	0516	12/08/90	0001	MB	O	PCI/L		0.9		1.5	0.9
	0516	04/04/91	0001	MB	O			0.9		1.5	2.8
	0516	08/26/91	0001	MB	O			0.0		1.5	1.0
	0520	12/12/90	0001	MB	O			0.3	c	1.2	0.9
	0520	04/01/91	0001	MB	O			0.0		1.5	1.4
	0520	08/22/91	0001	MB	O			0.0		1.5	0.9
	0522	12/08/90	0001	MB	O		<	0.9	b	1.5	0.9
	0522	04/02/91	0001	MB	O			0.0		1.5	1.3
	0522	08/22/91	0001	MB	O			0.0		1.5	0.9
	0525	12/08/90	0001	MB	O		<	0.8	b	1.5	0.8
	0525	04/03/91	0001	MB	O			1.4		1.5	1.4
	0525	08/26/91	0001	MB	O			0.0		1.5	1.0
	0526	12/12/90	0001	MB	O		<	0.9	b	1.5	0.9
	0526	04/04/91	0001	MB	O			0.5		1.5	1.4
	0526	08/21/91	0001	MB	O			0.0		1.5	0.9
	0528	12/15/90	0001	MB	O		<	0.9	b	1.5	0.9
	0528	04/02/91	0001	MB	O			0.4		1.5	1.4
	0528	08/21/91	0001	MB	O			0.0		1.5	0.9
MAGNESIUM	0516	06/06/90	0001	MB	O	MG/L		18.1		0.001	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
b - CHANGED PARAMETER VALUE
c - CHANGED DETECTION LIMIT

48

32 D.D.
6/15/93

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP REL.	UNITS OF MEASURE	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MAGNESIUM	0516	12/08/90	0001	MB	O	17.2		0.001	-
	0516	04/04/91	0001	MB	O	17.8		0.1	-
	0516	08/26/91	0001	MB	O	16.8		0.1	-
	0516	10/14/92	0001	MB	O	16.5		0.1	-
	0520	06/04/90	0001	MB	O	29.2		0.001	-
	0520	12/12/90	0001	MB	O	28.5		0.001	-
	0520	04/01/91	0001	MB	O	30.3		0.1	-
	0520	08/22/91	0001	MB	O	29.0		0.1	-
	0520	10/11/92	0001	MB	O	26.4		0.1	-
	0522	06/04/90	0001	MB	O	23.1		0.001	-
	0522	12/08/90	0001	MB	O	21.8		0.001	-
	0522	04/02/91	0001	MB	O	24.0		0.1	-
	0522	08/22/91	0001	MB	O	22.5		0.1	-
	0522	10/12/92	0001	MB	O	20.3		0.1	-
	0525	12/08/90	0001	MB	O	20.4		0.001	-
	0525	04/03/91	0001	MB	O	22.3		0.1	-
	0525	08/26/91	0001	MB	O	21.4		0.1	-
	0525	10/14/92	0001	MB	O	18.0		0.1	-
	0526	06/06/90	0001	MB	O	20.3		0.001	-
	0526	12/12/90	0001	MB	O	19.1		0.001	-
	0526	04/04/91	0001	MB	O	21.3		0.1	-
	0526	08/21/91	0001	MB	O	19.8		0.1	-
	0526	10/14/92	0001	MB	O	18.9		0.1	-
	0528	06/06/90	0001	MB	O	21.4		0.001	-
	0528	12/15/90	0001	MB	O	20.4		0.001	-
	0528	04/02/91	0001	MB	O	21.5		0.1	-
	0528	08/21/91	0001	MB	O	20.7		0.1	-
	0528	10/13/92	0001	MB	O	19.7		0.1	-
MANGANESE	0516	06/06/90	0001	MB	O	0.15		0.01	-
	0516	12/08/90	0001	MB	O	0.14		0.01	-
	0516	04/04/91	0001	MB	O	0.11		0.01	-
	0516	08/26/91	0001	MB	O	0.10		0.01	-
	0516	10/14/92	0001	MB	O	0.09		0.01	-
	0520	06/04/90	0001	MB	O	0.11		0.01	-
	0520	12/12/90	0001	MB	O	0.09		0.01	-
	0520	04/01/91	0001	MB	O	0.07		0.01	-
	0520	08/22/91	0001	MB	O	0.07		0.01	-
	0520	10/11/92	0001	MB	O	0.09		0.01	-
	0522	06/04/90	0001	MB	O	0.08		0.01	-
	0522	12/08/90	0001	MB	O	0.07		0.01	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

33 220
6/15/93

50

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MANGANESE	0522	04/02/91	0001	MB	0	MG/L	0.06		0.01	-
	0522	08/22/91	0001	MB	0		0.05		0.01	-
	0522	10/12/92	0001	MB	0		0.05		0.01	-
	0525	12/08/90	0001	MB	0		0.09		0.01	-
	0525	04/03/91	0001	MB	0		0.08		0.01	-
	0525	08/26/91	0001	MB	0		0.06		0.01	-
	0525	10/14/92	0001	MB	0		0.06		0.01	-
	0526	06/06/90	0001	MB	0		0.11		0.01	-
	0526	12/12/90	0001	MB	0		0.07		0.01	-
	0526	04/04/91	0001	MB	0		0.07		0.01	-
	0526	08/21/91	0001	MB	0		0.07		0.01	-
	0526	10/14/92	0001	MB	0		0.06		0.01	-
	0528	06/06/90	0001	MB	0		0.06		0.01	-
	0528	12/15/90	0001	MB	0		0.05		0.01	-
	0528	04/02/91	0001	MB	0		0.04		0.01	-
	0528	08/21/91	0001	MB	0		0.04		0.01	-
	0528	10/13/92	0001	MB	0		0.04		0.01	-
MERCURY	0516	06/06/90	0001	MB	0	MG/L	0.0002		0.0002	-
	0516	12/08/90	0001	MB	0		0.0002		0.0002	-
	0516	04/04/91	0001	MB	0		0.0002		0.0002	-
	0516	08/26/91	0001	MB	0		0.0002		0.0002	-
	0520	06/04/90	0001	MB	0		0.0002		0.0002	-
	0520	12/12/90	0001	MB	0		0.0002		0.0002	-
	0520	04/01/91	0001	MB	0		0.0002		0.0002	-
	0520	08/22/91	0001	MB	0		0.0002		0.0002	-
	0522	06/04/90	0001	MB	0		0.0002		0.0002	-
	0522	12/08/90	0001	MB	0		0.0002		0.0002	-
	0522	04/02/91	0001	MB	0		0.0002		0.0002	-
	0522	08/22/91	0001	MB	0		0.0002		0.0002	-
	0525	12/08/90	0001	MB	0		0.0002		0.0002	-
	0525	04/03/91	0001	MB	0		0.0002		0.0002	-
	0525	08/26/91	0001	MB	0		0.0002		0.0002	-
	0526	06/06/90	0001	MB	0		0.0002		0.0002	-
	0526	12/12/90	0001	MB	0		0.0002		0.0002	-
	0526	04/04/91	0001	MB	0		0.0002		0.0002	-
	0528	08/21/91	0001	MB	0		0.0002		0.0002	-
	0528	06/06/90	0001	MB	0		0.0002		0.0002	-
	0528	12/15/90	0001	MB	0		0.0002		0.0002	-
	0528	04/02/91	0001	MB	0		0.0002		0.0002	-
	0528	08/21/91	0001	MB	0		0.0002		0.0002	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

54 J.D.
6/15/93

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MOLYBDENUM	0516	06/06/90	0001	MB	0	MG/L		0.01		0.01	-
	0516	12/08/90	0001	MB	0			0.02		0.01	-
	0516	04/04/91	0001	MB	0		<	0.01		0.01	-
	0516	08/26/91	0001	MB	0		<	0.01		0.01	-
	0516	10/14/92	0001	MB	0		<	0.01		0.01	-
	0520	06/04/90	0001	MB	0			0.01		0.01	-
	0520	12/12/90	0001	MB	0			0.03		0.01	-
	0520	04/01/91	0001	MB	0		<	0.01		0.01	-
	0520	08/22/91	0001	MB	0		<	0.01		0.01	-
	0520	10/11/92	0001	MB	0			0.01		0.01	-
	0522	06/04/90	0001	MB	0			0.01		0.01	-
	0522	12/08/90	0001	MB	0			0.03		0.01	-
	0522	04/02/91	0001	MB	0		<	0.01		0.01	-
	0522	08/22/91	0001	MB	0		<	0.01		0.01	-
	0522	10/12/92	0001	MB	0			0.02		0.01	-
	0525	12/08/90	0001	MB	0			0.02		0.01	-
	0525	04/03/91	0001	MB	0		<	0.01		0.01	-
	0525	08/26/91	0001	MB	0		<	0.01		0.01	-
	0525	10/14/92	0001	MB	0		<	0.01		0.01	-
	0526	06/06/90	0001	MB	0		<	0.01		0.01	-
	0526	12/12/90	0001	MB	0			0.02		0.01	-
	0526	04/04/91	0001	MB	0		<	0.01		0.01	-
	0526	08/21/91	0001	MB	0		<	0.01		0.01	-
	0526	10/14/92	0001	MB	0		<	0.01		0.01	-
	0528	06/06/90	0001	MB	0		<	0.01		0.01	-
	0528	12/15/90	0001	MB	0			0.02		0.01	-
	0528	04/02/91	0001	MB	0		<	0.01		0.01	-
	0528	08/21/91	0001	MB	0		<	0.01		0.01	-
	0528	10/13/92	0001	MB	0		<	0.01		0.01	-
NET GROSS ALPHA *	0516	12/08/90	0001	MB	0	PCI/L		3.20		-	-
	0516	04/04/91	0001	MB	0			3.26		-	-
	0516	08/26/91	0001	MB	0			1.56		-	-
	0516	10/14/92	0001	MB	0			-0.34		-	-
	0520	12/12/90	0001	MB	0			3.46		-	-
	0520	04/01/91	0001	MB	0			4.06		-	-
	0520	08/22/91	0001	MB	0			1.86		-	-
	0520	10/11/92	0001	MB	0			-1.37		-	-
	0522	12/08/90	0001	MB	0			1.15		-	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

51

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NET GROSS ALPHA *	0522	04/02/91	0001	MB	0	PCI/L	-0.34		-	-
	0522	08/22/91	0001	MB	0		-0.12		-	-
	0522	10/12/92	0001	MB	0		-1.37		-	-
	0525	12/08/90	0001	MB	0		4.00		-	-
	0525	04/03/91	0001	MB	0		-0.34		-	-
	0525	08/26/91	0001	MB	0		6.06		-	-
	0525	10/14/92	0001	MB	0		-0.34		-	-
	0526	12/12/90	0001	MB	0		0.23		-	-
	0526	04/04/91	0001	MB	0		-4.09		-	-
	0526	08/21/91	0001	MB	0		-0.34		-	-
	0526	10/14/92	0001	MB	0		-0.34		-	-
	0528	12/15/90	0001	MB	0		4.61		-	-
	0528	04/02/91	0001	MB	0		-1.07		-	-
	0528	08/21/91	0001	MB	0		3.06		-	-
	0528	10/13/92	0001	MB	0		-0.34		-	-
NICKEL	0516	06/06/90	0001	MB	0	MG/L	0.04		0.04	-
	0516	12/08/90	0001	MB	0		0.04		0.04	-
	0516	04/04/91	0001	MB	0		0.04		0.04	-
	0516	08/26/91	0001	MB	0		0.04		0.04	-
	0516	10/14/92	0001	MB	0		0.04		0.04	-
	0520	06/04/90	0001	MB	0		0.04		0.04	-
	0520	12/12/90	0001	MB	0		0.04		0.04	-
	0520	04/01/91	0001	MB	0		0.04		0.04	-
	0520	08/22/91	0001	MB	0		0.04		0.04	-
	0520	10/11/92	0001	MB	0		0.04		0.04	-
	0522	06/04/90	0001	MB	0		0.04		0.04	-
	0522	12/08/90	0001	MB	0		0.04		0.04	-
	0522	04/02/91	0001	MB	0		0.04		0.04	-
	0522	08/22/91	0001	MB	0		0.04		0.04	-
	0525	10/12/92	0001	MB	0		0.04		0.04	-
	0525	12/08/90	0001	MB	0		0.04		0.04	-
	0525	04/03/91	0001	MB	0		0.04		0.04	-
	0525	08/26/91	0001	MB	0		0.04		0.04	-
	0525	10/14/92	0001	MB	0		0.04		0.04	-
	0526	06/06/90	0001	MB	0		0.04		0.04	-
	0526	12/12/90	0001	MB	0		0.04		0.04	-
	0526	04/04/91	0001	MB	0		0.04		0.04	-
	0526	08/21/91	0001	MB	0		0.04		0.04	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

FORMATION OF COMPLETION CODE:

MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:

0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (<45 MICRONS)

56 2.
6/15/9

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NICKEL	0526	10/14/92	0001	MB	O	MG/L	<	0.04		0.04	-
	0528	06/06/90	0001	MB	O		<	0.04		0.04	-
	0528	12/15/90	0001	MB	O		<	0.04		0.04	-
	0528	04/02/91	0001	MB	O		<	0.04		0.04	-
	0528	08/21/91	0001	MB	O		<	0.04		0.04	-
	0528	10/13/92	0001	MB	O		<	0.04		0.04	-
NITRATE	0516	06/06/90	0001	MB	O	MG/L	<	1.		1.	-
	0516	04/04/91	0001	MB	O			2.		1.	-
	0516	08/26/91	0001	MB	O			4.0		1.	-
	0520	06/04/90	0001	MB	O		<	1.		1.	-
	0520	04/01/91	0001	MB	O		<	1.0		1.	-
	0520	08/22/91	0001	MB	O			17.7		1.	-
	0520	10/11/92	0001	MB	O		<	1.0		1.0	-
	0522	06/04/90	0001	MB	O		<	1.		1.	-
	0522	04/02/91	0001	MB	O		<	1.0		1.	-
	0522	08/22/91	0001	MB	O			18.6		1.	-
	0522	10/12/92	0001	MB	O			1.0		1.0	-
	0525	04/03/91	0001	MB	O			1.		1.	-
	0525	08/26/91	0001	MB	O			6.2		1.	-
	0526	06/06/90	0001	MB	O		<	1.		1.	-
	0526	04/04/91	0001	MB	O			2.		1.	-
	0526	08/21/91	0001	MB	O			15.5		1.	-
	0526	10/14/92	0001	MB	O			1.8		0.1	-
	0528	06/06/90	0001	MB	O		<	1.		1.	-
	0528	04/02/91	0001	MB	O			2.		1.	-
	0528	08/21/91	0001	MB	O			19.5		1.	-
	0528	10/13/92	0001	MB	O			1.5		0.1	-
NITRITE AND NITRATE	0516	06/06/90	0001	MB	O	MG/L	<	1.		1.	-
	0516	04/04/91	0001	MB	O			0.38		0.05	-
	0516	08/26/91	0001	MB	O			0.93		0.05	-
	0520	06/04/90	0001	MB	O		<	1.		1.	-
	0520	04/01/91	0001	MB	O			0.19		0.05	-
	0520	08/22/91	0001	MB	O			4.04		0.05	-
	0522	06/04/90	0001	MB	O		<	1.		1.	-
	0522	04/02/91	0001	MB	O			0.23		0.05	-
	0522	08/22/91	0001	MB	O			4.24		0.05	-
	0525	04/03/91	0001	MB	O			0.30		0.05	-
	0525	08/26/91	0001	MB	O			1.38		0.05	-
	0526	06/06/90	0001	MB	O		<	1.		1.	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

53

57 200
6/15/93

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NITRITE AND NITRATE	0526	04/04/91	0001	MB	O	MG/L		0.44		0.05	-
	0526	08/21/91	0001	MB	O			3.49		0.05	-
	0528	06/06/90	0001	MB	O		<	1.		1.	-
	0528	04/02/91	0001	MB	O			0.37		0.05	-
	0528	08/21/91	0001	MB	O			4.41		0.05	-
PH	0516	06/06/90	0001	MB	O	SU		7.56		-	-
	0516	12/08/90	0001	MB	O			7.5		-	-
	0516	04/04/91	0001	MB	O			7.57		-	-
	0516	08/26/91	0001	MB	O			7.53		-	-
	0516	10/14/92	0001	MB	O			7.43		-	-
	0520	06/04/90	0001	MB	O			7.26		-	-
	0520	12/12/90	0001	MB	O			7.19		-	-
	0520	04/01/91	0001	MB	O			7.26		-	-
	0520	08/22/91	0001	MB	O			7.27		-	-
	0520	10/11/92	0001	MB	O			7.24		-	-
	0522	06/04/90	0001	MB	O			7.28		-	-
	0522	12/08/90	0001	MB	O			7.42		-	-
	0522	04/02/91	0001	MB	O			7.38		-	-
	0522	08/22/91	0001	MB	O			7.37		-	-
	0522	10/12/92	0001	MB	O			7.47		-	-
	0525	06/04/90	0001	MB	O			7.47		-	-
	0525	12/08/90	0001	MB	O			7.60		-	-
	0525	04/03/91	0001	MB	O			7.44		-	-
	0525	08/26/91	0001	MB	O			7.57		-	-
	0525	10/14/92	0001	MB	O			7.46		-	-
	0526	06/06/90	0001	MB	O			7.48		-	-
	0526	12/12/90	0001	MB	O			7.42		-	-
	0526	04/04/91	0001	MB	O			7.40		-	-
	0526	08/21/91	0001	MB	O			7.44		-	-
	0526	10/14/92	0001	MB	O			7.43		-	-
	0528	06/06/90	0001	MB	O			7.63		-	-
	0528	12/15/90	0001	MB	O			7.41		-	-
	0528	04/02/91	0001	MB	O			7.40		-	-
	0528	08/21/91	0001	MB	O			7.36		-	-
	0528	10/13/92	0001	MB	O			7.32		-	-
PHOSPHATE	0516	06/06/90	0001	MB	O	MG/L	<	0.1		0.1	-
	0516	04/04/91	0001	MB	O			0.1		0.1	-
	0516	08/26/91	0001	MB	O			0.1		0.1	-
	0520	06/04/90	0001	MB	O		<	0.1		0.1	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

h5

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/16/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PHOSPHATE	0520	04/01/91	0001	MB	0	Mg/L	<	0.1		0.1	-
	0520	08/22/91	0001	MB	0		<	0.1		0.1	-
	0520	10/11/92	0001	MB	0		<	0.8	J	0.1	-
	0522	06/04/90	0001	MB	0		<	0.1		0.1	-
	0522	04/02/91	0001	MB	0		<	0.1		0.1	-
	0522	08/22/91	0001	MB	0		<	0.1		0.1	-
	0522	10/12/92	0001	MB	0		<	0.1		0.1	-
	0525	04/03/91	0001	MB	0		<	0.1	J	0.1	-
	0525	08/26/91	0001	MB	0		<	0.1		0.1	-
	0526	06/06/90	0001	MB	0		<	0.1		0.1	-
	0526	04/04/91	0001	MB	0		<	0.1		0.1	-
	0526	08/21/91	0001	MB	0		<	0.1		0.1	-
	0526	10/14/92	0001	MB	0		<	0.1	J	0.1	-
	0528	06/06/90	0001	MB	0		<	0.1		0.1	-
	0528	04/02/91	0001	MB	0		<	0.1		0.1	-
	0528	08/21/91	0001	MB	0		<	0.1		0.1	-
	0528	10/13/92	0001	MB	0		<	0.1	J	0.1	-
POLONIUM-210	0516	12/08/90	0001	MB	0	Pci/L		0.3	C	0.7	0.4
	0516	04/04/91	0001	MB	0			0.1		1.	0.1
	0516	08/26/91	0001	MB	0			0.0		1.	0.3
	0520	12/12/90	0001	MB	0			0.3	C	0.7	0.4
	0520	04/01/91	0001	MB	0			0.1		1.	0.1
	0520	08/22/91	0001	MB	0			0.1		1.	0.3
	0522	12/08/90	0001	MB	0			0.3	C	0.7	0.4
	0522	04/02/91	0001	MB	0			0.1		1.	0.1
	0522	08/22/91	0001	MB	0			0.6		1.	0.4
	0525	12/08/90	0001	MB	0			0.1		1.	0.4
	0525	04/03/91	0001	MB	0			0.1		1.	0.1
	0526	08/26/91	0001	MB	0			0.0		1.	0.2
	0526	12/12/90	0001	MB	0			0.5	C	0.9	0.4
	0526	04/04/91	0001	MB	0			0.1		1.	0.2
	0526	08/21/91	0001	MB	0			0.3		1.	0.7
	0528	12/15/90	0001	MB	0			0.7		1.	0.7
	0528	04/02/91	0001	MB	0			0.0		1.	0.1
	0528	08/21/91	0001	MB	0			0.4		1.	0.8
POTASSIUM	0516	06/06/90	0001	MB	0	Mg/L		3.0		0.01	-
	0516	12/08/90	0001	MB	0			3.3		0.01	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE
C - CHANGED DETECTION LIMIT

58 D.D.
6/15/93

55

59 212.
6/15/93

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI	VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
POTASSIUM	0516	04/04/91	0001	MB	O	MG/L		2.9		0.01	-
	0516	08/26/91	0001	MB	O			2.6		0.01	-
	0516	10/14/92	0001	MB	O			2.71		0.01	-
	0520	06/04/90	0001	MB	O			3.4		0.01	-
	0520	12/12/90	0001	MB	O			3.4		0.01	-
	0520	04/01/91	0001	MB	O			3.0		0.01	-
	0520	08/22/91	0001	MB	O			2.8		0.01	-
	0520	10/11/92	0001	MB	O			3.18		0.01	-
	0522	06/04/90	0001	MB	O			3.4		0.01	-
	0522	12/08/90	0001	MB	O			3.2		0.01	-
	0522	04/02/91	0001	MB	O			2.8		0.01	-
	0522	08/22/91	0001	MB	O			2.8		0.01	-
	0522	10/12/92	0001	MB	O			2.99		0.01	-
	0525	12/08/90	0001	MB	O			3.1		0.01	-
	0525	04/03/91	0001	MB	O			2.9		0.01	-
	0525	08/26/91	0001	MB	O			2.8		0.01	-
	0525	10/14/92	0001	MB	O			3.03		0.01	-
	0526	06/06/90	0001	MB	O			2.6		0.01	-
	0526	12/12/90	0001	MB	O			2.9		0.01	-
	0526	04/04/91	0001	MB	O			2.6		0.01	-
	0526	08/21/91	0001	MB	O			2.5		0.01	-
	0526	10/14/92	0001	MB	O			2.63		0.01	-
	0528	06/06/90	0001	MB	O			2.5		0.01	-
	0528	12/15/90	0001	MB	O			2.7		0.01	-
	0528	04/02/91	0001	MB	O			2.4		0.01	-
	0528	08/21/91	0001	MB	O			2.4		0.01	-
	0528	10/13/92	0001	MB	O			2.61		0.01	-
RADIUM-226	0516	06/06/90	0001	MB	O	PCI/L		0.2	c	0.4	0.2
	0516	12/08/90	0001	MB	O			0.4	c	0.7	0.3
	0516	04/04/91	0001	MB	O			0.4		1.	0.2
	0516	08/26/91	0001	MB	O			0.3		1.	0.3
	0516	10/14/92	0001	MB	O			0.6		0.8	0.5
	0520	06/04/90	0001	MB	O			0.2	c	0.5	0.3
	0520	12/12/90	0001	MB	O			0.4	c	0.7	0.3
	0520	04/01/91	0001	MB	O			0.8		1.	0.3
	0520	08/22/91	0001	MB	O			0.6		1.	0.3
	0520	10/11/92	0001	MB	O			0.6		0.8	0.6
	0522	06/04/90	0001	MB	O			0.5	c	0.8	0.3
	0522	12/08/90	0001	MB	O			0.3	c	0.5	0.2

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

56

60 SJ 1
6/15/93

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
RADIUM-226	0522	04/02/91	0001	MB	O	PCI/L	0.6		1.	0.2
	0522	08/22/91	0001	MB	O		0.3		1.	0.3
	0522	10/12/92	0001	MB	O		0.9		0.8	0.6
	0525	12/08/90	0001	MB	O		0.3	c	0.5	0.2
	0525	04/03/91	0001	MB	O		0.4		1.	0.2
	0525	08/26/91	0001	MB	O		0.6		1.	0.3
	0525	10/14/92	0001	MB	O		0.0		0.8	0.5
	0526	06/06/90	0001	MB	O		0.1	c	0.3	0.2
	0526	12/12/90	0001	MB	O		0.2	c	0.4	0.2
	0526	04/04/91	0001	MB	O		0.8		1.	0.3
	0526	08/21/91	0001	MB	O		0.9		1.	0.4
	0526	10/14/92	0001	MB	O		0.5		0.8	0.5
	0528	06/06/90	0001	MB	O		0.2	c	0.4	0.2
	0528	12/15/90	0001	MB	O		0.7		1.	0.3
	0528	04/02/91	0001	MB	O		0.8		1.	0.3
	0528	08/21/91	0001	MB	O		0.8		1.	0.4
	0528	10/13/92	0001	MB	O		1.0		0.8	0.6
RADIUM-226 + RADIUM-228	0516	06/06/90	0001	MB	O	PCI/L	2.40		-	-
	0516	12/08/90	0001	MB	O		2.00		-	-
	0516	04/04/91	0001	MB	O		8.20		-	-
	0516	08/26/91	0001	MB	O		0.30		-	-
	0516	10/14/92	0001	MB	O		0.60		-	-
	0520	06/04/90	0001	MB	O		0.70		-	-
	0520	12/12/90	0001	MB	O		2.50		-	-
	0520	04/01/91	0001	MB	O		2.70		-	-
	0520	08/22/91	0001	MB	O		0.60		-	-
	0520	10/11/92	0001	MB	O		1.30		-	-
	0522	06/04/90	0001	MB	O		1.60		-	-
	0522	12/08/90	0001	MB	O		2.60		-	-
	0522	04/02/91	0001	MB	O		3.30		-	-
	0522	08/22/91	0001	MB	O		0.30		-	-
	0522	10/12/92	0001	MB	O		1.80		-	-
	0525	12/08/90	0001	MB	O		1.90		-	-
	0525	04/03/91	0001	MB	O		0.40		-	-
	0525	08/26/91	0001	MB	O		0.90		-	-
	0525	10/14/92	0001	MB	O		4.80		-	-
	0526	06/06/90	0001	MB	O		1.80		-	-
	0526	12/12/90	0001	MB	O		3.00		-	-
	0526	04/04/91	0001	MB	O		1.90		-	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

57

61 25
6/15/9.

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
RADIUM-226 + RADIUM-228	0526	08/21/91	0001	MB	0	PCI/L		0.90		-	-
	0526	10/14/92	0001	MB	0			0.50		-	-
	0528	06/06/90	0001	MB	0			0.80		-	-
	0528	12/15/90	0001	MB	0			2.70		-	-
	0528	04/02/91	0001	MB	0			4.40		-	-
	0528	08/21/91	0001	MB	0			0.80		-	-
	0528	10/13/92	0001	MB	0			1.80		-	-
RADIUM-228	0516	06/06/90	0001	MB	0	PCI/L		2.2		1.	0.8
	0516	12/08/90	0001	MB	0			1.6		1.	0.9
	0516	04/04/91	0001	MB	0			7.8		1.	1.1
	0516	08/26/91	0001	MB	0			0.0		1.	2.1
	0516	10/14/92	0001	MB	0			0.0	N	4.1	2.4
	0520	06/04/90	0001	MB	0			0.5		1.	0.7
	0520	12/12/90	0001	MB	0			2.1		1.	1.0
	0520	04/01/91	0001	MB	0			1.9		1.	1.0
	0520	08/22/91	0001	MB	0			0.0		1.	2.4
	0520	10/11/92	0001	MB	0			0.7		2.9	1.8
	0522	06/04/90	0001	MB	0			1.1		1.	0.7
	0522	12/08/90	0001	MB	0			2.3		1.	0.9
	0522	04/02/91	0001	MB	0			2.7		1.	1.0
	0522	08/22/91	0001	MB	0			0.0		1.	2.6
	0522	10/12/92	0001	MB	0			0.9		2.9	1.8
	0525	12/08/90	0001	MB	0			1.6		1.	0.8
	0525	04/03/91	0001	MB	0			0.0		1.	1.1
	0525	08/26/91	0001	MB	0			0.3		1.	2.1
	0525	10/14/92	0001	MB	0			4.8	N	2.6	1.9
	0526	06/06/90	0001	MB	0			1.7		1.	0.9
	0526	12/12/90	0001	MB	0			2.8		1.	1.0
	0526	04/04/91	0001	MB	0			1.1		1.	1.2
	0526	08/21/91	0001	MB	0			0.0		1.	2.6
	0526	10/14/92	0001	MB	0			0.0	N	4.1	2.4
	0528	06/06/90	0001	MB	0			0.6		1.	0.8
	0528	12/15/90	0001	MB	0			2.0		1.	0.8
	0528	04/02/91	0001	MB	0			3.6		1.	1.4
	0528	08/21/91	0001	MB	0			0.0		1.	2.5
	0528	10/13/92	0001	MB	0			0.8	N	2.6	1.6
REDOX POTENTIAL	0516	12/08/90	0001	MB	0	mVOLTS		242.5		-	-
	0516	10/14/92	0001	MB	0			239.3		-	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS

50

62 22
6/15/93

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 - BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
REDOX POTENTIAL	0520	12/12/90	0001	MB	0	mVOLTS	342.6		-	-
	0520	10/11/92	0001	MB	0		322		-	-
	0522	12/08/90	0001	MB	0		209.9		-	-
	0522	10/12/92	0001	MB	0		246.3		-	-
	0525	12/08/90	0001	MB	0		313.1		-	-
	0525	10/14/92	0001	MB	0		420.2		-	-
	0526	12/12/90	0001	MB	0		315.6		-	-
	0526	10/14/92	0001	MB	0		392.2		-	-
	0528	12/15/90	0001	MB	0		197.6		-	-
	0528	10/13/92	0001	MB	0		188.5		-	-
SELENIUM	0516	06/06/90	0001	MB	0	MG/L	< 0.005		0.005	-
	0516	12/08/90	0001	MB	0		< 0.005		0.005	-
	0516	04/04/91	0001	MB	0		< 0.005		0.005	-
	0516	08/26/91	0001	MB	0		< 0.005		0.005	-
	0516	10/14/92	0001	MB	0		< 0.005		0.005	-
	0520	06/04/90	0001	MB	0		< 0.005		0.005	-
	0520	12/12/90	0001	MB	0		< 0.005		0.005	-
	0520	04/01/91	0001	MB	0		< 0.005		0.005	-
	0520	08/22/91	0001	MB	0		< 0.03	I	0.03	-
	0520	10/11/92	0001	MB	0		< 0.005		0.005	-
	0522	06/04/90	0001	MB	0		< 0.005		0.005	-
	0522	12/08/90	0001	MB	0		< 0.005		0.005	-
	0522	04/02/91	0001	MB	0		< 0.005		0.005	-
	0522	08/22/91	0001	MB	0		< 0.005		0.005	-
	0522	10/12/92	0001	MB	0		< 0.005		0.005	-
	0525	12/08/90	0001	MB	0		< 0.005		0.005	-
	0525	04/03/91	0001	MB	0		< 0.005		0.005	-
	0525	08/26/91	0001	MB	0		< 0.005		0.005	-
	0525	10/14/92	0001	MB	0		< 0.005		0.005	-
	0526	06/06/90	0001	MB	0		< 0.005		0.005	-
	0526	12/12/90	0001	MB	0		< 0.005		0.005	-
	0526	04/04/91	0001	MB	0		< 0.005		0.005	-
	0526	08/21/91	0001	MB	0		< 0.005		0.005	-
	0526	10/14/92	0001	MB	0		< 0.005		0.005	-
	0528	06/06/90	0001	MB	0		< 0.005		0.005	-
	0528	12/15/90	0001	MB	0		< 0.005		0.005	-
	0528	04/02/91	0001	MB	0		< 0.005		0.005	-
	0528	08/21/91	0001	MB	0		< 0.005		0.005	-
	0528	10/13/92	0001	MB	0		< 0.005		0.005	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

54

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR

SITE: SRK02 BORROW SITE 1 (BURRO CANYON)

06/04/90 TO 10/14/92

REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION	ID	LOG DATE	SAMPLE ID	FORM	FLOW	REL.	MEASURE	UNITS OF	PARAMETER	PVI	VALUE	FLAGS	DETECTION	PARAMETER	UNCERTAINTY
SILICA - S102		0516	06/06/90	0001	MB	0	0	0	Mg/L	14.	14.	14.		2.	0.1	-
		0516	12/08/90	0001	MB	0	0	0		14.	14.	14.0		0.1	0.1	-
		0516	04/04/91	0001	MB	0	0	0		14.	14.	13.5		0.1	0.1	-
		0516	08/26/91	0001	MB	0	0	0		14.	14.	12.6		0.1	0.1	-
		0516	10/14/92	0001	MB	0	0	0		14.	14.	13.3		0.1	0.1	-
		0520	06/04/90	0001	MB	0	0	0		14.	14.	14.		2.	0.1	-
		0520	12/12/90	0001	MB	0	0	0		14.	14.	14.		2.	0.1	-
		0520	04/01/91	0001	MB	0	0	0		14.	14.	13.5		0.1	0.1	-
		0520	08/22/91	0001	MB	0	0	0		14.	14.	14.0		0.1	0.1	-
		0520	10/11/92	0001	MB	0	0	0		14.	14.	14.2		0.1	0.1	-
		0522	06/04/90	0001	MB	0	0	0		13.	13.	13.		2.	0.1	-
		0522	12/08/90	0001	MB	0	0	0		13.	13.	13.		2.	0.1	-
		0522	04/02/91	0001	MB	0	0	0		13.3	13.3	13.3		0.1	0.1	-
		0522	08/22/91	0001	MB	0	0	0		13.4	13.4	13.4		0.1	0.1	-
		0522	10/12/92	0001	MB	0	0	0		13.3	13.3	13.3		0.1	0.1	-
		0525	12/08/90	0001	MB	0	0	0		13.	13.	13.		2.	0.1	-
		0525	04/03/91	0001	MB	0	0	0		12.8	12.8	12.5		0.1	0.1	-
		0525	08/26/91	0001	MB	0	0	0		13.0	13.0	13.0		0.1	0.1	-
		0525	10/14/92	0001	MB	0	0	0		14.	14.	14.		2.	0.1	-
		0525	12/15/90	0001	MB	0	0	0		14.	14.	14.		2.	0.1	-
		0528	06/06/90	0001	MB	0	0	0		13.6	13.6	13.6		0.1	0.1	-
0528	10/14/92	0001	MB	0	0	0		13.5	13.5	13.5		0.1	0.1	-		
0528	08/21/91	0001	MB	0	0	0		13.2	13.2	13.2		0.1	0.1	-		
0528	10/13/92	0001	MB	0	0	0		13.8	13.8	13.8		0.1	0.1	-		
SILVER		0516	06/06/90	0001	MB	0	0	0	Mg/L	0.01	>	0.01	>	0.01	0.01	-
		0516	12/08/90	0001	MB	0	0	0		0.01	>	0.01	>	0.01	0.01	-
		0516	04/04/91	0001	MB	0	0	0		0.01	>	0.01	>	0.01	0.01	-
		0516	08/26/91	0001	MB	0	0	0		0.01	>	0.01	>	0.01	0.01	-
		0520	06/04/90	0001	MB	0	0	0		0.01	>	0.01	>	0.01	0.01	-
		0520	12/12/90	0001	MB	0	0	0		0.01	>	0.01	>	0.01	0.01	-
		0520	04/01/91	0001	MB	0	0	0		0.01	>	0.01	>	0.01	0.01	-
		0520	08/22/91	0001	MB	0	0	0		0.01	>	0.01	>	0.01	0.01	-
		0522	04/02/91	0001	MB	0	0	0		0.01	>	0.01	>	0.01	0.01	-
		0522	08/22/91	0001	MB	0	0	0		0.01	>	0.01	>	0.01	0.01	-
		0522	10/12/92	0001	MB	0	0	0		0.01	>	0.01	>	0.01	0.01	-
		0525	12/08/90	0001	MB	0	0	0		0.01	>	0.01	>	0.01	0.01	-
		0525	04/03/91	0001	MB	0	0	0		0.01	>	0.01	>	0.01	0.01	-
		0525	08/26/91	0001	MB	0	0	0		0.01	>	0.01	>	0.01	0.01	-
		0525	10/14/92	0001	MB	0	0	0		0.01	>	0.01	>	0.01	0.01	-
		0526	06/06/90	0001	MB	0	0	0		0.01	>	0.01	>	0.01	0.01	-
		0526	12/12/90	0001	MB	0	0	0		0.01	>	0.01	>	0.01	0.01	-
		0526	04/04/91	0001	MB	0	0	0		0.01	>	0.01	>	0.01	0.01	-
		0526	08/21/91	0001	MB	0	0	0		0.01	>	0.01	>	0.01	0.01	-
0528	06/04/90	0001	MB	0	0	0		0.01	>	0.01	>	0.01	0.01	-		
0528	12/08/90	0001	MB	0	0	0		0.01	>	0.01	>	0.01	0.01	-		
0528	04/02/91	0001	MB	0	0	0		0.01	>	0.01	>	0.01	0.01	-		
0528	08/21/91	0001	MB	0	0	0		0.01	>	0.01	>	0.01	0.01	-		
0528	10/13/92	0001	MB	0	0	0		0.01	>	0.01	>	0.01	0.01	-		

6/15/93

65

60

64 2
6/15/92

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SILVER	0522	08/22/91	0001	MB	0	MG/L	<	0.01		0.01	-
	0525	12/08/90	0001	MB	0		<	0.01		0.01	-
	0525	04/03/91	0001	MB	0		<	0.01		0.01	-
	0525	08/26/91	0001	MB	0		<	0.01		0.01	-
	0526	06/06/90	0001	MB	0		<	0.01		0.01	-
	0526	12/12/90	0001	MB	0		<	0.01		0.01	-
	0526	04/04/91	0001	MB	0		<	0.01		0.01	-
	0526	08/21/91	0001	MB	0		<	0.01		0.01	-
	0528	06/06/90	0001	MB	0		<	0.01		0.01	-
	0528	12/15/90	0001	MB	0		<	0.01		0.01	-
	0528	04/02/91	0001	MB	0		<	0.01		0.01	-
	0528	08/21/91	0001	MB	0		<	0.01		0.01	-
SODIUM	0516	06/06/90	0001	MB	0	MG/L		145.		0.002	-
	0516	12/08/90	0001	MB	0			150.		0.002	-
	0516	04/04/91	0001	MB	0			154.		5.	-
	0516	08/26/91	0001	MB	0			130.		5.	-
	0516	10/14/92	0001	MB	0			146.		5.	-
	0520	06/04/90	0001	MB	0			102.		0.002	-
	0520	12/12/90	0001	MB	0			100.		0.002	-
	0520	04/01/91	0001	MB	0			107.		5.	-
	0520	08/22/91	0001	MB	0			100.		1.	-
	0520	10/11/92	0001	MB	0			120.		5.	-
	0522	06/04/90	0001	MB	0			109.		0.002	-
	0522	12/08/90	0001	MB	0			107.		0.002	-
	0522	04/02/91	0001	MB	0			115.		5.	-
	0522	08/22/91	0001	MB	0			112.		5.	-
	0522	10/12/92	0001	MB	0			111.		5.	-
	0525	12/08/90	0001	MB	0			142.		0.002	-
	0525	04/03/91	0001	MB	0			150.		5.	-
	0525	08/26/91	0001	MB	0			143.		5.	-
	0525	10/14/92	0001	MB	0			167.		5.	-
	0526	06/06/90	0001	MB	0			110.		0.002	-
	0526	12/12/90	0001	MB	0			106.		0.002	-
	0526	04/04/91	0001	MB	0			114.		5.	-
	0526	08/21/91	0001	MB	0			114.		5.	-
	0526	10/14/92	0001	MB	0			109.		5.	-
	0528	06/06/90	0001	MB	0			73.5		0.002	-
	0528	12/15/90	0001	MB	0			73.5		0.002	-
	0528	04/02/91	0001	MB	0			74.		5.	-
	0528	08/21/91	0001	MB	0			72.		1.	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

62 22
6/15/92

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SODIUM	0528	10/13/92	0001	MB	0	MG/L		75.		1.	-
SPECIFIC CONDUCTANCE	0516	06/06/90	0001	MB	0	UMHO/CM		780.		.	-
	0516	04/04/91	0001	MB	0			984.		.	-
	0516	08/26/91	0001	MB	0			977		.	-
	0516	10/14/92	0001	MB	0			820		.	-
	0520	06/04/90	0001	MB	0			900.		.	-
	0520	12/12/90	0001	MB	0			944.		.	-
	0520	04/01/91	0001	MB	0			1036.		.	-
	0520	08/22/91	0001	MB	0			1034		.	-
	0520	10/11/92	0001	MB	0			848		.	-
	0522	06/04/90	0001	MB	0			700.		.	-
	0522	04/02/91	0001	MB	0			925.		.	-
	0522	08/22/91	0001	MB	0			935		.	-
	0522	10/12/92	0001	MB	0			748		.	-
	0525	06/04/90	0001	MB	0			780.		.	-
	0525	04/03/91	0001	MB	0			1052.		.	-
	0525	08/26/91	0001	MB	0			1038		.	-
	0525	10/14/92	0001	MB	0			930		.	-
	0526	06/06/90	0001	MB	0			550.		.	-
	0526	12/12/90	0001	MB	0			850.		.	-
	0526	04/04/91	0001	MB	0			874.		.	-
	0526	08/21/91	0001	MB	0			860		.	-
	0526	10/14/92	0001	MB	0			708		.	-
	0528	06/06/90	0001	MB	0			620.		.	-
	0528	12/15/90	0001	MB	0			756.		.	-
	0528	04/02/91	0001	MB	0			766.		.	-
	0528	08/21/91	0001	MB	0			588		.	-
	0528	10/13/92	0001	MB	0			536		.	-
STRONTIUM	0516	06/06/90	0001	MB	0	MG/L		3.81		0.1	-
	0516	12/08/90	0001	MB	0			3.8		0.1	-
	0516	04/04/91	0001	MB	0			3.98		0.01	-
	0516	08/26/91	0001	MB	0			3.43		0.01	-
	0516	10/14/92	0001	MB	0			3.74		0.01	-
	0520	06/04/90	0001	MB	0			5.83		0.1	-
	0520	12/12/90	0001	MB	0			5.7		0.1	-
	0520	04/01/91	0001	MB	0			6.12		0.01	-
	0520	08/22/91	0001	MB	0			5.81		0.01	-
	0520	10/11/92	0001	MB	0			5.44		0.01	-
	0522	06/04/90	0001	MB	0			3.12		0.1	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

62

66 22.
6/15/93

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
STRONTIUM	0522	12/08/90	0001	MB	0	MG/L	3.1		0.1	-
	0522	04/02/91	0001	MB	0		3.49		0.01	-
	0522	08/22/91	0001	MB	0		3.22		0.01	-
	0522	10/12/92	0001	MB	0		2.98		0.01	-
	0525	12/08/90	0001	MB	0		4.4		0.1	-
	0525	04/03/91	0001	MB	0		4.95		0.01	-
	0525	08/26/91	0001	MB	0		4.60		0.01	-
	0525	10/14/92	0001	MB	0		5.41		0.01	-
	0526	06/06/90	0001	MB	0		3.85		0.1	-
	0526	12/12/90	0001	MB	0		3.4		0.1	-
	0526	04/04/91	0001	MB	0		3.94		0.01	-
	0526	08/21/91	0001	MB	0		3.68		0.01	-
	0526	10/14/92	0001	MB	0		3.51		0.01	-
	0528	06/06/90	0001	MB	0		3.11		0.1	-
	0528	12/15/90	0001	MB	0		2.9		0.1	-
	0528	04/02/91	0001	MB	0		3.16		0.01	-
	0528	08/21/91	0001	MB	0		3.03		0.01	-
	0528	10/13/92	0001	MB	0		2.94		0.01	-
SULFATE	0516	06/06/90	0001	MB	0	MG/L	214.		0.1	-
	0516	04/04/91	0001	MB	0		209.		0.1	-
	0516	08/26/91	0001	MB	0		195.		10.	-
	0516	10/14/92	0001	MB	0		210.		4.	-
	0520	06/04/90	0001	MB	0		254.		0.1	-
	0520	04/01/91	0001	MB	0		251.		0.1	-
	0520	08/22/91	0001	MB	0		251.		10.	-
	0520	10/11/92	0001	MB	0		253.		3.	-
	0522	06/04/90	0001	MB	0		244.		0.1	-
	0522	04/02/91	0001	MB	0		223.		0.1	-
	0522	08/22/91	0001	MB	0		220.		10.	-
	0522	10/12/92	0001	MB	0		216.		20.	-
	0525	04/03/91	0001	MB	0		212.		10.	-
	0525	08/26/91	0001	MB	0		223.		10.	-
	0525	10/14/92	0001	MB	0		227.		3.	-
	0526	06/06/90	0001	MB	0		194.		0.1	-
	0526	04/04/91	0001	MB	0		185.		0.1	-
	0526	08/21/91	0001	MB	0		164.		10.	-
	0526	10/14/92	0001	MB	0		189.		3.	-
	0528	06/06/90	0001	MB	0		146.		0.1	-
	0528	04/02/91	0001	MB	0		148.		0.1	-
	0528	08/21/91	0001	MB	0		144.		10.	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

63

67 2.2.
6/15/93

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SULFATE	0528	10/13/92	0001	MB	0	MG/L	145.		4.	-
SULFIDE	0516	12/08/90	0001	MB	0	MG/L	< 0.1		0.1	-
	0516	04/04/91	0001	MB	0		3.3		0.1	-
	0516	08/26/91	0001	MB	0		0.3		0.1	-
	0520	12/12/90	0001	MB	0		< 0.1		0.1	-
	0520	04/01/91	0001	MB	0		0.3		0.1	-
	0520	08/22/91	0001	MB	0		1.6		0.1	-
	0520	10/11/92	0001	MB	0		1.2		0.1	-
	0522	12/08/90	0001	MB	0		< 0.1		0.1	-
	0522	04/02/91	0001	MB	0		17.9		0.1	-
	0522	08/22/91	0001	MB	0		2.9		0.1	-
	0522	10/12/92	0001	MB	0		0.4		0.1	-
	0525	12/08/90	0001	MB	0		< 0.1		0.1	-
	0525	04/03/91	0001	MB	0		0.5		0.1	-
	0525	08/26/91	0001	MB	0		0.3		0.1	-
	0526	12/12/90	0001	MB	0		< 0.1		0.1	-
	0526	04/04/91	0001	MB	0		0.3		0.1	-
	0526	08/21/91	0001	MB	0		0.1		0.1	-
	0526	10/14/92	0001	MB	0		0.1		0.1	-
	0528	12/15/90	0001	MB	0		< 0.1		0.1	-
	0528	04/02/91	0001	MB	0		0.3		0.1	-
	0528	08/21/91	0001	MB	0		0.6		0.1	-
	0528	10/13/92	0001	MB	0		< 0.1		0.1	-
TEMPERATURE	0516	06/06/90	0001	MB	0	C - DEGREE	16.0		-	-
	0516	12/08/90	0001	MB	0		14.0		-	-
	0516	04/04/91	0001	MB	0		13.9		-	-
	0516	08/26/91	0001	MB	0		16.9		-	-
	0516	10/14/92	0001	MB	0		17.1		-	-
	0520	06/04/90	0001	MB	0		17.5		-	-
	0520	12/12/90	0001	MB	0		18.6		-	-
	0520	04/01/91	0001	MB	0		16.2		-	-
	0520	08/22/91	0001	MB	0		15.5		-	-
	0520	10/11/92	0001	MB	0		16.0		-	-
	0522	06/04/90	0001	MB	0		17.6		-	-
	0522	12/08/90	0001	MB	0		16.0		-	-
	0522	04/02/91	0001	MB	0		15.7		-	-
	0522	08/22/91	0001	MB	0		15.3		-	-
	0522	10/12/92	0001	MB	0		15.5		-	-
	0525	06/04/90	0001	MB	0		16.5		-	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

64

68 D.A.
6/15/93

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TEMPERATURE	0525	12/08/90	0001	MB	O	C - DEGREE	17.0		-	-
	0525	04/03/91	0001	MB	O		16.7		-	-
	0525	08/26/91	0001	MB	O		17.1		-	-
	0525	10/14/92	0001	MB	O		15.7		-	-
	0526	06/06/90	0001	MB	O		16.0		-	-
	0526	12/12/90	0001	MB	O		15.2		-	-
	0526	04/04/91	0001	MB	O		17.2		-	-
	0526	08/21/91	0001	MB	O		16.9		-	-
	0526	10/14/92	0001	MB	O		15.6		-	-
	0528	06/06/90	0001	MB	O		17.0		-	-
	0528	12/15/90	0001	MB	O		15.0		-	-
	0528	04/02/91	0001	MB	O		15.5		-	-
	0528	08/21/91	0001	MB	O		17.2		-	-
	0528	10/13/92	0001	MB	O		16.8		-	-
THALLIUM	0516	06/06/90	0001	MB	O	MG/L	<		0.01	-
	0516	12/08/90	0001	MB	O		0.01		0.01	-
	0516	04/04/91	0001	MB	O		0.01		0.01	-
	0516	08/26/91	0001	MB	O		0.01		0.01	-
	0516	10/14/92	0001	MB	O		0.005		0.005	-
	0520	06/04/90	0001	MB	O		0.01		0.01	-
	0520	12/12/90	0001	MB	O		0.01		0.01	-
	0520	04/01/91	0001	MB	O		0.01		0.01	-
	0520	08/22/91	0001	MB	O		0.01		0.01	-
	0520	10/11/92	0001	MB	O		0.005		0.005	-
	0522	06/04/90	0001	MB	O		0.01		0.01	-
	0522	12/08/90	0001	MB	O		0.01		0.01	-
	0522	04/02/91	0001	MB	O		0.01		0.01	-
	0522	08/22/91	0001	MB	O		0.01		0.01	-
	0522	10/12/92	0001	MB	O		0.005		0.005	-
	0525	12/08/90	0001	MB	O		0.01		0.01	-
	0525	04/03/91	0001	MB	O		0.01		0.01	-
	0525	08/26/91	0001	MB	O		0.01		0.01	-
	0525	10/14/92	0001	MB	O		0.005		0.005	-
	0526	06/06/90	0001	MB	O		0.01		0.01	-
	0526	12/12/90	0001	MB	O		0.01		0.01	-
	0526	04/04/91	0001	MB	O		0.01		0.01	-
	0526	08/21/91	0001	MB	O		0.01		0.01	-
	0526	10/14/92	0001	MB	O		0.005		0.005	-
	0528	06/06/90	0001	MB	O		0.01		0.01	-
	0528	12/15/90	0001	MB	O		0.01		0.01	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

69 J1
6/15/93

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
THALLIUM	0528	04/02/91	0001	MB	0	MG/L	<	0.01		0.01	-
	0528	08/21/91	0001	MB	0		<	0.01		0.01	-
	0528	10/13/92	0001	MB	0		<	0.005		0.005	-
THORIUM-230	0516	12/08/90	0001	MB	0	PCI/L	<	0.3	d	0.1	0.3
	0516	04/04/91	0001	MB	0			0.2		1.	0.3
	0516	08/26/91	0001	MB	0			0.4		1.	0.4
	0520	12/12/90	0001	MB	0		<	0.3	d	0.1	0.3
	0520	04/01/91	0001	MB	0			0.1		1.	0.3
	0520	08/22/91	0001	MB	0			0.7		1.	0.7
	0522	12/08/90	0001	MB	0		<	0.4	d	0.1	0.4
	0522	04/02/91	0001	MB	0			1.3		1.	0.8
	0522	08/22/91	0001	MB	0			0.1		1.	0.2
	0525	12/08/90	0001	MB	0		<	0.4	d	0.1	0.4
	0525	04/03/91	0001	MB	0			0.5		1.	0.4
	0525	08/26/91	0001	MB	0			0.3		1.	0.4
	0526	12/12/90	0001	MB	0		<	0.3	d	0.1	0.3
	0526	04/04/91	0001	MB	0			0.2		1.	0.3
	0526	08/21/91	0001	MB	0			0.3		1.	0.4
	0528	12/15/90	0001	MB	0		<	0.4	d	0.1	0.4
	0528	04/02/91	0001	MB	0			0.1		1.	0.3
	0528	08/21/91	0001	MB	0			0.7		1.	0.5
TIN	0516	06/06/90	0001	MB	0	MG/L	<	0.005		0.005	-
	0516	12/08/90	0001	MB	0		<	0.005		0.005	-
	0516	04/04/91	0001	MB	0		<	0.01	I	0.01	-
	0516	08/26/91	0001	MB	0		<	0.005		0.005	-
	0516	10/14/92	0001	MB	0		<	0.005		0.005	-
	0520	06/04/90	0001	MB	0		<	0.005		0.005	-
	0520	12/12/90	0001	MB	0		<	0.005		0.005	-
	0520	04/01/91	0001	MB	0		<	0.005		0.005	-
	0520	08/22/91	0001	MB	0		<	0.005		0.005	-
	0520	10/11/92	0001	MB	0		<	0.005		0.005	-
	0522	06/04/90	0001	MB	0		<	0.005		0.005	-
	0522	12/08/90	0001	MB	0		<	0.005		0.005	-
	0522	04/02/91	0001	MB	0		<	0.005		0.005	-
	0522	08/22/91	0001	MB	0		<	0.005		0.005	-
	0522	10/12/92	0001	MB	0		<	0.005		0.005	-
	0525	12/08/90	0001	MB	0		<	0.005		0.005	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
d - CHANGED DETECTION LIMIT AND PARAMETER VALUE

69

70 J.L.
6/15/93

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TIN	0525	04/03/91	0001	MB	O	MG/L	<	0.005		0.005	-
	0525	08/26/91	0001	MB	O		<	0.005		0.005	-
	0525	10/14/92	0001	MB	O		<	0.005		0.005	-
	0526	06/06/90	0001	MB	O		<	0.005		0.005	-
	0526	12/12/90	0001	MB	O		<	0.005		0.005	-
	0526	04/04/91	0001	MB	O		<	0.005		0.005	-
	0526	08/21/91	0001	MB	O		<	0.005		0.005	-
	0526	10/14/92	0001	MB	O		<	0.005		0.005	-
	0528	06/06/90	0001	MB	O		<	0.005		0.005	-
	0528	12/15/90	0001	MB	O		<	0.005		0.005	-
	0528	04/02/91	0001	MB	O		<	0.005		0.005	-
	0528	08/21/91	0001	MB	O		<	0.005		0.005	-
	0528	10/13/92	0001	MB	O		<	0.005		0.005	-
TOTAL DISSOLVED SOLIDS	0516	06/06/90	0001	MB	O	MG/L		568.		10.	-
	0516	12/08/90	0001	MB	O			584.		10.	-
	0516	04/04/91	0001	MB	O			641.		10.	-
	0516	08/26/91	0001	MB	O			576.		10.	-
	0516	10/14/92	0001	MB	O			621.		10.	-
	0520	06/04/90	0001	MB	O			642.		10.	-
	0520	12/12/90	0001	MB	O			636.		10.	-
	0520	04/01/91	0001	MB	O			669.		10.	-
	0520	08/22/91	0001	MB	O			667.		10.	-
	0520	10/11/92	0001	MB	O			677.		10.	-
	0522	06/04/90	0001	MB	O			586.		10.	-
	0522	12/08/90	0001	MB	O			536.		10.	-
	0522	04/02/91	0001	MB	O			598.		10.	-
	0522	08/22/91	0001	MB	O			585.		10.	-
	0522	10/12/92	0001	MB	O			587.		10.	-
	0525	12/08/90	0001	MB	O			596.		10.	-
	0525	04/03/91	0001	MB	O			600.		10.	-
	0525	08/26/91	0001	MB	O			651.		10.	-
	0525	10/14/92	0001	MB	O			696.		10.	-
	0526	06/06/90	0001	MB	O			498.		10.	-
	0526	12/12/90	0001	MB	O			508.		10.	-
	0526	04/04/91	0001	MB	O			551.		10.	-
	0526	08/21/91	0001	MB	O			550.		10.	-
	0526	10/14/92	0001	MB	O			558.		10.	-
	0528	06/06/90	0001	MB	O			422.		10.	-
	0528	12/15/90	0001	MB	O			444.		10.	-
	0528	04/02/91	0001	MB	O			486.		10.	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

67

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL DISSOLVED SOLIDS	0528	08/21/91	0001	MB	O	MG/L		466.		10.	-
	0528	10/13/92	0001	MB	O			481.		10.	-
TOTAL KJELDAHL NITROGEN	0516	12/08/90	0001	MB	O	MG/L		1.		1.	-
	0516	04/04/91	0001	MB	O		<	1.		1.	-
	0516	08/26/91	0001	MB	O			1.		1.	-
	0520	12/12/90	0001	MB	O		<	1.		1.	-
	0520	04/01/91	0001	MB	O		<	1.		1.	-
	0520	08/22/91	0001	MB	O		<	1.		1.	-
	0522	12/08/90	0001	MB	O		<	1.		1.	-
	0522	04/02/91	0001	MB	O			1.		1.	-
	0522	08/22/91	0001	MB	O		<	1.		1.	-
	0525	12/08/90	0001	MB	O		<	1.		1.	-
	0525	04/03/91	0001	MB	O		<	1.		1.	-
	0525	08/26/91	0001	MB	O		<	1.		1.	-
	0526	12/12/90	0001	MB	O		<	1.		1.	-
	0526	04/04/91	0001	MB	O		<	1.		1.	-
	0526	08/21/91	0001	MB	O			1.		1.	-
	0528	12/15/90	0001	MB	O		<	1.		1.	-
	0528	04/02/91	0001	MB	O		<	1.		1.	-
	0528	08/21/91	0001	MB	O			1.		1.	-
TOTAL ORGANIC CARBON	0516	04/04/91	0001	MB	O	MG/L	<	1.		1.	-
	0520	04/01/91	0001	MB	O			1.		1.	-
	0520	08/22/91	0001	MB	O			6.		1.	-
	0520	10/11/92	0001	MB	O			3.		1.	-
	0522	04/02/91	0001	MB	O			2.		1.	-
	0522	08/22/91	0001	MB	O			2.		1.	-
	0522	10/12/92	0001	MB	O			1.		1.	-
	0525	04/03/91	0001	MB	O			1.		1.	-
	0525	08/26/91	0001	MB	O		<	1.		1.	-
	0526	04/04/91	0001	MB	O		<	1.		1.	-
	0526	08/21/91	0001	MB	O			1.		1.	-
	0526	10/14/92	0001	MB	O			6.	*J	1.	-
	0528	04/02/91	0001	MB	O		<	1.		1.	-
	0528	08/21/91	0001	MB	O			1.		1.	-
	0528	10/13/92	0001	MB	O			7.	*J	1.	-
URANIUM	0516	06/06/90	0001	MB	O	MG/L		0.0013	c	0.0013	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
* - DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS
J - ESTIMATED VALUE
c - CHANGED DETECTION LIMIT

68

72 D.1
6/15/93

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
URANIUM	0516	12/08/90	0001	MB	0	MG/L	<	0.0003		0.0003	-
	0516	04/04/91	0001	MB	0		<	0.001		0.001	-
	0516	08/26/91	0001	MB	0		<	0.001		0.001	-
	0516	10/14/92	0001	MB	0		<	0.001		0.001	-
	0520	06/04/90	0001	MB	0			0.0010	c	0.001	-
	0520	12/12/90	0001	MB	0			0.0005		0.0003	-
	0520	04/01/91	0001	MB	0		<	0.001		0.001	-
	0520	08/22/91	0001	MB	0		<	0.001		0.001	-
	0520	10/11/92	0001	MB	0			0.002		0.001	-
	0522	06/04/90	0001	MB	0			0.0018	c	0.0018	-
	0522	12/08/90	0001	MB	0			0.0011		0.0003	-
	0522	04/02/91	0001	MB	0		<	0.001		0.001	-
	0522	08/22/91	0001	MB	0			0.006		0.001	-
	0522	10/12/92	0001	MB	0			0.002		0.001	-
	0525	12/08/90	0001	MB	0		<	0.0003		0.0003	-
	0525	04/03/91	0001	MB	0		<	0.001		0.001	-
	0525	08/26/91	0001	MB	0		<	0.001		0.001	-
	0525	10/14/92	0001	MB	0		<	0.001		0.001	-
	0526	06/06/90	0001	MB	0			0.0008	c	0.0008	-
	0526	12/12/90	0001	MB	0			0.0004		0.0003	-
	0526	04/04/91	0001	MB	0			0.008		0.001	-
	0526	08/21/91	0001	MB	0		<	0.001		0.001	-
	0526	10/14/92	0001	MB	0		<	0.001		0.001	-
	0528	06/06/90	0001	MB	0			0.0013	c	0.0013	-
	0528	12/15/90	0001	MB	0			0.0010		0.0003	-
	0528	04/02/91	0001	MB	0			0.002		0.001	-
	0528	08/21/91	0001	MB	0		<	0.001		0.001	-
	0528	10/13/92	0001	MB	0		<	0.001		0.001	-
VANADIUM	0516	06/06/90	0001	MB	0	MG/L		0.02		0.01	-
	0516	12/08/90	0001	MB	0			0.03		0.01	-
	0516	04/04/91	0001	MB	0		<	0.01		0.01	-
	0516	08/26/91	0001	MB	0		<	0.01		0.01	-
	0516	10/14/92	0001	MB	0		<	0.01		0.01	-
	0520	06/04/90	0001	MB	0			0.01		0.01	-
	0520	12/12/90	0001	MB	0			0.03		0.01	-
	0520	04/01/91	0001	MB	0		<	0.01		0.01	-
	0520	08/22/91	0001	MB	0		<	0.01		0.01	-
	0520	10/11/92	0001	MB	0		<	0.01		0.01	-
	0522	06/04/90	0001	MB	0			0.02		0.01	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
c - CHANGED DETECTION LIMIT

69

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION	ID	LOG DATE	SAMPLE ID	FORM	FLOW	REL.	MEASURE	UNITS OF	PVI	VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
VANADIUM		0522	12/08/90	0001	MB	0	0	0.03	MG/L	<	0.01		0.01	-
		0522	04/02/91	0001	MB	0	0	0.01		<	0.01		0.01	-
		0522	08/22/91	0001	MB	0	0	0.01		<	0.01		0.01	-
		0522	10/12/92	0001	MB	0	0	0.01		<	0.01		0.01	-
		0525	12/08/90	0001	MB	0	0	0.03		<	0.01		0.01	-
		0525	04/03/91	0001	MB	0	0	0.01		<	0.01		0.01	-
		0525	08/26/91	0001	MB	0	0	0.01		<	0.01		0.01	-
		0525	10/14/92	0001	MB	0	0	0.01		<	0.01		0.01	-
		0526	06/06/90	0001	MB	0	0	0.01		<	0.01		0.01	-
		0526	12/12/90	0001	MB	0	0	0.03		<	0.01		0.01	-
		0526	04/04/91	0001	MB	0	0	0.01		<	0.01		0.01	-
		0526	08/21/91	0001	MB	0	0	0.01		<	0.01		0.01	-
		0526	10/14/92	0001	MB	0	0	0.01		<	0.01		0.01	-
		0528	06/06/90	0001	MB	0	0	0.01		<	0.01		0.01	-
		0528	12/15/90	0001	MB	0	0	0.03		<	0.01		0.01	-
		0528	04/02/91	0001	MB	0	0	0.01		<	0.01		0.01	-
		0528	08/21/91	0001	MB	0	0	0.01		<	0.01		0.01	-
		0528	10/13/92	0001	MB	0	0	0.01		<	0.01		0.01	-
ZINC		0516	06/06/90	0001	MB	0	0	0.053	MG/L	<	0.005		0.005	-
		0516	12/08/90	0001	MB	0	0	0.005		<	0.005		0.005	-
		0516	04/04/91	0001	MB	0	0	0.017		<	0.005		0.005	-
		0516	08/26/91	0001	MB	0	0	0.005		<	0.005		0.005	-
		0516	10/14/92	0001	MB	0	0	0.009		<	0.005		0.005	-
		0520	06/04/90	0001	MB	0	0	0.054		<	0.005		0.005	-
		0520	12/12/90	0001	MB	0	0	0.077		<	0.005		0.005	-
		0520	04/01/91	0001	MB	0	0	0.147		<	0.005		0.005	-
		0520	08/22/91	0001	MB	0	0	0.078		<	0.005		0.005	-
		0520	10/11/92	0001	MB	0	0	0.005		<	0.005		0.005	-
		0522	06/04/90	0001	MB	0	0	0.080		<	0.005		0.005	-
		0522	12/08/90	0001	MB	0	0	0.044		<	0.005		0.005	-
		0522	04/02/91	0001	MB	0	0	0.057		<	0.005		0.005	-
		0522	08/22/91	0001	MB	0	0	0.041		<	0.005		0.005	-
		0522	10/12/92	0001	MB	0	0	0.005		<	0.005		0.005	-
		0525	12/08/90	0001	MB	0	0	0.043		<	0.005		0.005	-
		0525	04/03/91	0001	MB	0	0	0.033		<	0.005		0.005	-
		0525	08/26/91	0001	MB	0	0	0.005		<	0.005		0.005	-
		0525	10/14/92	0001	MB	0	0	0.005		<	0.005		0.005	-
		0526	06/06/90	0001	MB	0	0	0.020		<	0.005		0.005	-
		0526	12/12/90	0001	MB	0	0	0.027		<	0.005		0.005	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

FLOW RELATIONSHIP CODE:
0 - ON-SITE

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

73 J.L.
6/15/93

27

74 J.D.
6/15/93

TABLE 3. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/01/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ZINC	0526	08/21/91	0001	MB	0	MG/L	< 0.005		0.005	-
	0526	10/14/92	0001	MB	0		< 0.005		0.005	-
	0528	06/06/90	0001	MB	0		0.095		0.005	-
	0528	12/15/90	0001	MB	0		0.032		0.005	-
	0528	04/02/91	0001	MB	0		0.033		0.005	-
	0528	08/21/91	0001	MB	0		0.008		0.005	-
	0528	10/13/92	0001	MB	0		< 0.005		0.005	-

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

DATA FILE NAME: M:\DART\SRK02\GWQ10011.DAT

TABLE 4. GROUNDWATER QUALITY STATISTICS BY PARAMETER
FOR THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/16/93

PARAMETER NAME				UNITS	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN						MINIMUM	MAXIMUM *		
ALKALINITY				MG/L CaCO3								
29	201.0000	276.0000	234.0000		238.8966	22.0038	0.0921	0.0	228.8164	248.9767	NORMAL	
ALUMINUM				MG/L								
29	** 0.0500	0.0500	** 0.0500		NA	NA	NA	100.0	** 0.0500	0.0500	NONPARAMETRIC	2
AMMONIUM				MG/L								
27	** 0.1000	0.5000	0.2000		NA	NA	NA	37.0	** 0.1000	0.3000	NONPARAMETRIC	2
ANTIMONY				MG/L								
29	** 0.0030	0.0060	** 0.0030		NA	NA	NA	96.6	** 0.0030	** 0.0030	NONPARAMETRIC	2
ARSENIC				MG/L								
29	** 0.0050	0.0050	0.0050		NA	NA	NA	100.0	0.0050	0.0050	NONPARAMETRIC	2
BARIUM				MG/L								
29	0.0100	0.0500	0.0200		NA	NA	NA	37.9	0.0200	0.0500	NONPARAMETRIC	2
BERYLLIUM				MG/L								
23	** 0.0050	0.0050	** 0.0050		NA	NA	NA	100.0	** 0.0050	0.0050	NONPARAMETRIC	2
BORON				MG/L								
23	0.1000	0.2000	0.1800		0.1626	0.0407	0.2503	0.0	0.1413	0.1839	NORMAL	
BROMIDE				MG/L								
18	0.1000	0.5000	+ 0.2000		NA	NA	NA	33.3	0.1000	0.3000	NONPARAMETRIC	2
CADMIUM				MG/L								
29	** 0.0005	0.0025	0.0005		NA	NA	NA	100.0	0.0005	0.0005	NONPARAMETRIC	2

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

72
6/11/93

TABLE 4. GROUNDWATER QUALITY STATISTICS BY PARAMETER
FOR THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/16/93

PARAMETER NAME					UNITS					STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION	FOOT
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	MINIMUM	MAXIMUM *	TYPE	NOTE		
CALCIUM					MG/L								
29	44.5000	85.5000	58.3000	59.8414	11.5675	0.1933	0.0	54.5422	65.1406	NORMAL			
CHLORIDE					MG/L								
29	20.0000	59.0000	24.0000	27.1862	8.7842	0.3231	0.0	23.1621	31.2104	NORMAL			
CHROMIUM					MG/L								
29	** 0.0100	** 0.0100	** 0.0100	NA	NA	NA	100.0	** 0.0100	** 0.0100	NONPARAMETRIC	2		
COBALT					MG/L								
23	** 0.0300	** 0.0300	** 0.0300	NA	NA	NA	100.0	** 0.0300	** 0.0300	NONPARAMETRIC	2		
COPPER					MG/L								
29	** 0.0100	0.0100	** 0.0100	NA	NA	NA	100.0	** 0.0100	0.0100	NONPARAMETRIC	2		
CYANIDE					MG/L								
18	** 0.0100	** 0.0100	** 0.0100	NA	NA	NA	100.0	** 0.0100	** 0.0100	NONPARAMETRIC	2		
DISSOLVED OXYGEN					MG/L								
6	0.1000	5.0000	+ 0.7000	0.8363	4.3520	NA	0.0	0.1109	6.3057	LOGNORMAL	7,8		
FIELD FE (2+)					MG/L								
2	0.0200	0.1000	+ 0.0600	NA	NA	NA	0.0	NA	NA	UNKNOWN	1		
FLUORIDE					MG/L								
29	0.5000	1.0000	0.6000	0.6759	0.1244	0.1840	0.0	0.6189	0.7328	NORMAL			

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

73 20.
6/16/93

TABLE 4. GROUNDWATER QUALITY STATISTICS BY PARAMETER
FOR THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/16/93

PARAMETER NAME					UNITS								
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE	
									MINIMUM	MAXIMUM *			
GROSS ALPHA					PCI/L								
24	**	1.0000	6.4000	+ 1.6500	NA	NA	NA	4.2	**	1.0000	3.8000	NONPARAMETRIC 9	
GROSS BETA					PCI/L								
24	**	0.5000	12.9000	+ 3.7500	NA	NA	NA	0.0		0.5000	5.9000	NONPARAMETRIC 9	
IRON					MG/L								
29	**	0.0300	0.1200	0.0300	NA	NA	NA	44.8	**	0.0300	0.0600	NONPARAMETRIC 2	
LEAD					MG/L								
29	**	0.0030	0.0100	** 0.0030	NA	NA	NA	100.0	**	0.0030	0.0050	NONPARAMETRIC 2	
LEAD-210					PCI/L								
18	**	1.2000	1.4000	** 1.2000	NA	NA	NA	22.2	**	1.2000	** 1.2000	NONPARAMETRIC 2	
MAGNESIUM					MG/L								
29		16.5000	30.3000	20.7000	21.5414	3.7254	0.1729	0.0		19.8347	23.2480	NORMAL	
MANGANESE					MG/L								
29		0.0400	0.1500	0.0700	0.0769	0.0279	0.3630	0.0		0.0641	0.0897	NORMAL	
MERCURY					MG/L								
23	**	0.0002	** 0.0002	** 0.0002	NA	NA	NA	100.0	**	0.0002	** 0.0002	NONPARAMETRIC 2	
MOLYBDENUM					MG/L								
29	**	0.0100	0.0300	** 0.0100	NA	NA	NA	62.1	**	0.0100	0.0100	NONPARAMETRIC 2	
NET GROSS ALPHA ***					PCI/L								
24		-4.0900	6.0600	+ 0.0550	NA	NA	NA	0.0		-0.3400	3.2600	NONPARAMETRIC 9	

*** NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

24 201
6/16/93

TABLE 4. GROUNDWATER QUALITY STATISTICS BY PARAMETER
FOR THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/16/93

PARAMETER NAME				UNITS	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MINIMUM					MAXIMUM *			
NICKEL				MG/L								
29	** 0.0400	** 0.0400	** 0.0400	NA	NA	NA	100.0	** 0.0400	** 0.0400	NONPARAMETRIC	2	
NITRATE				MG/L								
21	0.5000	19.5000	1.5000	NA	NA	NA	38.1	0.5000	6.2000	NONPARAMETRIC	2	
NITRITE AND NITRATE				MG/L								
17	0.1900	4.4100	0.5000	NA	NA	NA	29.4	0.3700	3.4900	NONPARAMETRIC	2	
PH				SU								
30	7.1900	7.6300	+ 7.4250	NA	NA	NA	0.0	NA	NA	UNKNOWN		
PHOSPHATE				MG/L								
21	** 0.1000	0.8000	** 0.1000	NA	NA	NA	85.7	** 0.1000	** 0.1000	NONPARAMETRIC	2	
POLONIUM-210				PCI/L								
18	** 0.7000	0.7000	** 0.7000	NA	NA	NA	0.0	** 0.7000	** 0.7000	NONPARAMETRIC	9	
POTASSIUM				MG/L								
29	2.4000	3.4000	2.8000	2.8672	0.2985	0.1041	0.0	2.7305	3.0040	NORMAL		
RADIUM-226				PCI/L								
29	** 0.3000	1.0000	0.5000	NA	NA	NA	0.0	0.3000	0.7000	NONPARAMETRIC	9	
RADIUM-226 + RADIUM-228				PCI/L								
29	0.3000	8.2000	1.8000	1.9828	1.6772	0.8459	0.0	1.2144	2.7511	NORMAL		
RADIUM-228				PCI/L								
29	** 1.0000	7.8000	1.1000	NA	NA	NA	0.0	** 1.0000	2.1000	NONPARAMETRIC	9	

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

- The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

752
6/16/93

TABLE 4. GROUNDWATER QUALITY STATISTICS BY PARAMETER
FOR THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/16/93

PARAMETER NAME				UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN					MINIMUM	MAXIMUM *		
REDOX POTENTIAL				mVOLTS								
12	188.5000	420.2000 +	279.7000	285.8167	76.3717	0.2672	0.0	225.8940	345.7394		NORMAL	
SELENIUM				MG/L								
29	** 0.0050	0.0150 **	0.0050	NA	NA	NA	100.0	** 0.0050	** 0.0050		NONPARAMETRIC	2
SILICA - SiO2				MG/L								
29	12.5000	14.2000	13.4000	13.4379	0.5039	0.0375	0.0	13.2071	13.6688		NORMAL	
SILVER				MG/L								
23	** 0.0100	** 0.0100	** 0.0100	NA	NA	NA	100.0	** 0.0100	** 0.0100		NONPARAMETRIC	2
SODIUM				MG/L								
29	72.0000	167.0000	111.0000	114.8621	26.6089	0.2317	0.0	102.6723	127.0519		NORMAL	
SPECIFIC CONDUCTANCE				UMHO/CM								
27	536.0000	1052.0000	850.0000	834.7778	151.0851	0.1810	0.0	762.6975	906.8580		NORMAL	
STRONTIUM				MG/L								
29	2.9000	6.1200	3.7400	4.0155	1.0168	0.2532	0.0	3.5497	4.4813		NORMAL	
SULFATE				MG/L								
23	144.0000	254.0000	212.0000	205.0870	36.1284	0.1762	0.0	186.1934	223.9805		NORMAL	
SULFIDE				MG/L								
22	** 0.1000	17.9000 +	0.3000	NA	NA	NA	31.8	** 0.1000	0.6000		NONPARAMETRIC	2
TEMPERATURE				C - DEGREE								
30	13.9000	18.6000 +	16.1000	16.2400	1.0474	0.0645	0.0	15.7692	16.7108		NORMAL	

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

762
6/16/93

TABLE 4. GROUNDWATER QUALITY STATISTICS BY PARAMETER
FOR THE MIDDLE BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/16/93

PARAMETER NAME				UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN					MINIMUM	MAXIMUM *		
THALLIUM				MG/L								
29	** 0.0050	0.0050	0.0050	NA	NA	NA	100.0	0.0050	0.0050	NONPARAMETRIC	2	
THORIUM-230				PCI/L								
18	** 0.1000	1.3000	+ 0.1500	NA	NA	NA	33.3	** 0.1000	0.5000	NONPARAMETRIC	2	
TIN				MG/L								
29	** 0.0050	0.0050	** 0.0050	NA	NA	NA	100.0	** 0.0050	** 0.0050	NONPARAMETRIC	2	
TOTAL DISSOLVED SOLIDS				MG/L								
29	422.0000	696.0000	585.0000	575.1724	72.5874	0.1262	0.0	541.9194	608.4255	NORMAL		
TOTAL KJELDAHL NITROGEN				MG/L								
18	** 1.0000	1.0000	** 1.0000	NA	NA	NA	72.2	** 1.0000	1.0000	NONPARAMETRIC	2	
TOTAL ORGANIC CARBON				MG/L								
15	** 1.0000	7.0000	1.0000	NA	NA	NA	26.7	** 1.0000	6.0000	NONPARAMETRIC	2	
URANIUM				MG/L								
29	** 0.0003	0.0080	0.0005	NA	NA	NA	51.7	0.0005	0.0013	NONPARAMETRIC	2	
VANADIUM				MG/L								
29	** 0.0100	0.0300	** 0.0100	NA	NA	NA	69.0	** 0.0100	0.0200	NONPARAMETRIC	2	
ZINC				MG/L								
29	** 0.0050	0.1470	0.0270	NA	NA	NA	31.0	** 0.0050	0.0530	NONPARAMETRIC	2	

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

INPUT DATA FILENAME: M:\DART\SRK02\GWQ10011.DAT

77
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81 21
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TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	0517	06/04/90	0001	LB	0	MG/L CaCO3	198.		-	-
	0517	12/08/90	0001	LB	0		188.	G	-	-
	0517	04/02/91	0001	LB	0		174.	G	-	-
	0517	08/25/91	0001	LB	0		195		-	-
	0517	10/14/92	0001	LB	0		185		-	-
	0519	06/04/90	0001	LB	0		172.		-	-
	0519	12/15/90	0001	LB	0		163.		-	-
	0519	04/01/91	0001	LB	0		162.		-	-
	0519	08/22/91	0001	LB	0		156		-	-
	0519	10/11/92	0001	LB	0		157		-	-
	0521	06/04/90	0001	LB	0		215.		-	-
	0521	12/08/90	0001	LB	0		187.	G	-	-
	0521	04/02/91	0001	LB	0		192.	G	-	-
	0521	08/25/91	0001	LB	0		191		-	-
	0521	10/13/92	0001	LB	0		189		-	-
	0524	12/08/90	0001	LB	0		184.		-	-
	0524	04/03/91	0001	LB	0		152.		-	-
	0524	08/26/91	0001	LB	0		206		-	-
	0524	10/14/92	0001	LB	0		183		-	-
ALUMINUM	0517	06/04/90	0001	LB	0	MG/L	0.2		0.1	-
	0517	12/08/90	0001	LB	0		0.1	G	0.1	-
	0517	04/02/91	0001	LB	0		0.06	G	0.05	-
	0517	08/25/91	0001	LB	0		0.12		0.05	-
	0517	10/14/92	0001	LB	0		< 0.05		0.05	-
	0519	06/04/90	0001	LB	0		< 0.1		0.1	-
	0519	12/15/90	0001	LB	0		0.1		0.1	-
	0519	04/01/91	0001	LB	0		0.05		0.05	-
	0519	08/22/91	0001	LB	0		< 0.05		0.05	-
	0519	10/11/92	0001	LB	0		< 0.05		0.05	-
	0521	06/04/90	0001	LB	0		< 0.1		0.1	-
	0521	12/08/90	0001	LB	0		0.1	G	0.1	-
	0521	04/02/91	0001	LB	0		< 0.05	G	0.05	-
	0521	08/25/91	0001	LB	0		< 0.05		0.05	-
	0521	10/13/92	0001	LB	0		0.06		0.05	-
	0524	12/08/90	0001	LB	0		0.2		0.1	-
	0524	04/03/91	0001	LB	0		0.30		0.05	-
	0524	08/26/91	0001	LB	0		0.07		0.05	-
	0524	10/14/92	0001	LB	0		0.21		0.05	-
AMMONIUM	0517	06/04/90	0001	LB	0	MG/L	< 0.1		0.1	-

FORMATION OF COMPLETION CODE:
LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (<.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
G - PH > 9, POSSIBLE GROUT CONTAMINATION

87

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TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
AMMONIUM	0517	12/08/90	0001	LB	0	MG/L	<	0.1	G	0.1	-
	0517	04/02/91	0001	LB	0			0.2	G	0.1	-
	0517	08/25/91	0001	LB	0			0.1		0.1	-
	0517	10/14/92	0001	LB	0			0.4		0.1	-
	0519	06/04/90	0001	LB	0		<	0.1		0.1	-
	0519	12/15/90	0001	LB	0		<	0.1		0.1	-
	0519	04/01/91	0001	LB	0			0.1		0.1	-
	0519	08/22/91	0001	LB	0		<	0.1		0.1	-
	0519	10/11/92	0001	LB	0		<	0.1		0.1	-
	0521	06/04/90	0001	LB	0		<	0.1		0.1	-
	0521	12/08/90	0001	LB	0		<	0.1	G	0.1	-
	0521	04/02/91	0001	LB	0			0.2	G	0.1	-
	0521	08/25/91	0001	LB	0		<	0.1		0.1	-
	0521	10/13/92	0001	LB	0		<	0.1		0.1	-
	0524	12/08/90	0001	LB	0		<	0.1		0.1	-
	0524	04/03/91	0001	LB	0			0.2		0.1	-
	0524	08/26/91	0001	LB	0			0.1		0.1	-
	0524	10/14/92	0001	LB	0			1.2		0.1	-
ANTIMONY	0517	06/04/90	0001	LB	0	MG/L		0.007		0.003	-
	0517	12/08/90	0001	LB	0		<	0.003	G	0.003	-
	0517	04/02/91	0001	LB	0		<	0.005	GI	0.005	-
	0517	08/25/91	0001	LB	0		<	0.003		0.003	-
	0517	10/14/92	0001	LB	0		<	0.003		0.003	-
	0519	06/04/90	0001	LB	0			0.006		0.003	-
	0519	12/15/90	0001	LB	0		<	0.003		0.003	-
	0519	04/01/91	0001	LB	0		<	0.005	I	0.005	-
	0519	08/22/91	0001	LB	0		<	0.003		0.003	-
	0519	10/11/92	0001	LB	0		<	0.003		0.003	-
	0521	06/04/90	0001	LB	0		<	0.003		0.003	-
	0521	12/08/90	0001	LB	0			0.003	G	0.003	-
	0521	04/02/91	0001	LB	0		<	0.005	GI	0.005	-
	0521	08/25/91	0001	LB	0		<	0.003		0.003	-
	0521	10/13/92	0001	LB	0			0.003		0.003	-
	0524	12/08/90	0001	LB	0			0.004		0.003	-
	0524	04/03/91	0001	LB	0		<	0.005	I	0.005	-
	0524	08/26/91	0001	LB	0			0.005		0.003	-
	0524	10/14/92	0001	LB	0		<	0.003		0.003	-
ARSENIC	0517	06/04/90	0001	LB	0	MG/L	<	0.01		0.01	-

FORMATION OF COMPLETION CODE:
LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
G - PH > 9, POSSIBLE GROUT CONTAMINATION
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

62

83 211
6/15/93

80

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ARSENIC	0517	12/08/90	0001	LB	MG/L	<	0.01	G	0.01	-
	0517	04/02/91	0001	LB		<	0.01	G	0.01	-
	0517	08/25/91	0001	LB		<	0.01		0.01	-
	0517	10/14/92	0001	LB		<	0.005		0.005	-
	0519	06/04/90	0001	LB		<	0.01		0.01	-
	0519	12/15/90	0001	LB		<	0.01		0.01	-
	0519	04/01/91	0001	LB		<	0.01		0.01	-
	0519	08/22/91	0001	LB		<	0.01		0.01	-
	0519	10/11/92	0001	LB		<	0.005		0.005	-
	0521	06/04/90	0001	LB		<	0.01		0.01	-
	0521	12/08/90	0001	LB		<	0.018	G	0.01	-
	0521	04/02/91	0001	LB		<	0.01	G	0.01	-
	0521	08/25/91	0001	LB		<	0.01		0.01	-
	0521	10/13/92	0001	LB		<	0.005		0.005	-
	0524	12/08/90	0001	LB		<	0.01		0.01	-
	0524	04/03/91	0001	LB		<	0.01		0.01	-
	0524	08/26/91	0001	LB		<	0.01		0.01	-
	0524	10/14/92	0001	LB		<	0.005		0.005	-
BARIUM	0517	06/04/90	0001	LB	MG/L	<	0.1		0.1	-
	0517	12/08/90	0001	LB		<	0.1	G	0.1	-
	0517	04/02/91	0001	LB		<	0.02	G	0.01	-
	0517	08/25/91	0001	LB		<	0.01		0.01	-
	0517	10/14/92	0001	LB		<	0.01		0.01	-
	0519	06/04/90	0001	LB		<	0.1		0.1	-
	0519	12/15/90	0001	LB		<	0.1		0.1	-
	0519	04/01/91	0001	LB		<	0.01		0.01	-
	0519	08/22/91	0001	LB		<	0.01		0.01	-
	0519	10/11/92	0001	LB		<	0.01		0.01	-
	0521	06/04/90	0001	LB		<	0.1		0.1	-
	0521	12/08/90	0001	LB		<	0.01	G	0.01	-
	0521	04/02/91	0001	LB		<	0.01		0.01	-
	0521	08/25/91	0001	LB		<	0.01		0.01	-
	0521	10/13/92	0001	LB		<	0.02		0.01	-
	0524	12/08/90	0001	LB		<	0.1		0.1	-
	0524	04/03/91	0001	LB		<	0.03		0.01	-
	0524	08/26/91	0001	LB		<	0.01		0.01	-
	0524	10/14/92	0001	LB		<	0.02		0.01	-
BERYLLIUM	0517	06/04/90	0001	LB	MG/L	<	0.01		0.01	-

FORMATION OF COMPLETION CODE:
LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
G - PH > 9, POSSIBLE GROUT CONTAMINATION

84 Q,
6/15/92

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BERYLLIUM	0517	12/08/90	0001	LB	O	MG/L	<	0.01	G	0.01	-
	0517	04/02/91	0001	LB	O		<	0.005	G	0.005	-
	0517	08/25/91	0001	LB	O		<	0.005		0.005	-
	0519	06/04/90	0001	LB	O		<	0.01		0.01	-
	0519	12/15/90	0001	LB	O		<	0.01		0.01	-
	0519	04/01/91	0001	LB	O		<	0.005		0.005	-
	0519	08/22/91	0001	LB	O		<	0.005		0.005	-
	0521	06/04/90	0001	LB	O		<	0.01		0.01	-
	0521	12/08/90	0001	LB	O		<	0.01	G	0.01	-
	0521	04/02/91	0001	LB	O		<	0.005	G	0.005	-
	0521	08/25/91	0001	LB	O		<	0.005		0.005	-
	0524	12/08/90	0001	LB	O		<	0.01		0.01	-
	0524	04/03/91	0001	LB	O		<	0.005		0.005	-
	0524	08/26/91	0001	LB	O		<	0.005		0.005	-
BORON	0517	06/04/90	0001	LB	O	MG/L		0.1		0.1	-
	0517	12/08/90	0001	LB	O			0.1	G	0.1	-
	0517	04/02/91	0001	LB	O			0.11	G	0.05	-
	0517	08/25/91	0001	LB	O			0.10		0.05	-
	0519	06/04/90	0001	LB	O		<	0.1		0.1	-
	0519	12/15/90	0001	LB	O		<	0.1		0.1	-
	0519	04/01/91	0001	LB	O			0.07		0.05	-
	0519	08/22/91	0001	LB	O			0.06		0.05	-
	0521	06/04/90	0001	LB	O			0.1		0.1	-
	0521	12/08/90	0001	LB	O			0.1	G	0.1	-
	0521	04/02/91	0001	LB	O			0.12	G	0.05	-
	0521	08/25/91	0001	LB	O			0.10		0.05	-
	0524	12/08/90	0001	LB	O		<	0.1		0.1	-
	0524	04/03/91	0001	LB	O			0.08		0.05	-
	0524	08/26/91	0001	LB	O			0.08		0.05	-
BROMIDE	0517	04/02/91	0001	LB	O	MG/L		0.1	G	0.1	-
	0517	08/25/91	0001	LB	O		<	0.1		0.1	-
	0517	10/14/92	0001	LB	O		<	0.2	I	0.2	-
	0519	04/01/91	0001	LB	O			0.2		0.1	-
	0519	08/22/91	0001	LB	O			0.1		0.1	-
	0519	10/11/92	0001	LB	O		<	0.1		0.1	-
	0521	04/02/91	0001	LB	O			0.1	G	0.1	-
	0521	08/25/91	0001	LB	O		<	0.1		0.1	-

FORMATION OF COMPLETION CODE:
LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
G - PH > 9, POSSIBLE GROUT CONTAMINATION
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

85 2.0
6/15/93

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BROMIDE	0521	10/13/92	0001	LB	O	MG/L	<	0.5	I	0.5	-
	0524	04/03/91	0001	LB	O			0.2		0.1	-
	0524	08/26/91	0001	LB	O		<	0.1		0.1	-
	0524	10/14/92	0001	LB	O		<	0.5	I	0.5	-
CADMIUM	0517	06/04/90	0001	LB	O	MG/L	<	0.001		0.001	-
	0517	12/08/90	0001	LB	O		<	0.001	G	0.001	-
	0517	04/02/91	0001	LB	O		<	0.0005	G	0.0005	-
	0517	08/25/91	0001	LB	O		<	0.001		0.001	-
	0517	10/14/92	0001	LB	O		<	0.005	I	0.005	-
	0519	06/04/90	0001	LB	O		<	0.001		0.001	-
	0519	12/15/90	0001	LB	O		<	0.001		0.001	-
	0519	04/01/91	0001	LB	O		<	0.0005		0.0005	-
	0519	08/22/91	0001	LB	O		<	0.001		0.001	-
	0519	10/11/92	0001	LB	O		<	0.001		0.001	-
	0521	06/04/90	0001	LB	O		<	0.001		0.001	-
	0521	12/08/90	0001	LB	O		<	0.001	G	0.001	-
	0521	04/02/91	0001	LB	O		<	0.0005	G	0.0005	-
	0521	08/25/91	0001	LB	O		<	0.001		0.001	-
	0521	10/13/92	0001	LB	O		<	0.005	I	0.005	-
	0524	12/08/90	0001	LB	O		<	0.001		0.001	-
	0524	04/03/91	0001	LB	O		<	0.0005		0.0005	-
	0524	08/26/91	0001	LB	O		<	0.001		0.001	-
	0524	10/14/92	0001	LB	O			0.001		0.001	-
CALCIUM	0517	06/04/90	0001	LB	O	MG/L		0.94		0.01	-
	0517	12/08/90	0001	LB	O			1.17	G	0.01	-
	0517	04/02/91	0001	LB	O			1.0	G	0.1	-
	0517	08/25/91	0001	LB	O			0.5		0.1	-
	0517	10/14/92	0001	LB	O			0.5		0.1	-
	0519	06/04/90	0001	LB	O			2.51		0.01	-
	0519	12/15/90	0001	LB	O			2.64		0.01	-
	0519	04/01/91	0001	LB	O			2.5		0.1	-
	0519	08/22/91	0001	LB	O			1.9		0.1	-
	0519	10/11/92	0001	LB	O			2.1		0.1	-
	0521	06/04/90	0001	LB	O			2.34		0.01	-
	0521	12/08/90	0001	LB	O			1.59	G	0.01	-
	0521	04/02/91	0001	LB	O			1.7	G	0.1	-
	0521	08/25/91	0001	LB	O			1.5		0.1	-

FORMATION OF COMPLETION CODE:
LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
G - PH > 9, POSSIBLE GROUT CONTAMINATION
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

82

86 JdL.
6/15/93

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP REL.	UNITS OF MEASURE	PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CALCIUM	0521	10/13/92	0001	LB	0	1.2		0.1	-
	0524	12/08/90	0001	LB	0	2.16		0.01	-
	0524	04/03/91	0001	LB	0	2.1		0.1	-
	0524	08/26/91	0001	LB	0	1.8		0.1	-
	0524	10/14/92	0001	LB	0	1.1		0.1	-
CHLORIDE	0517	06/04/90	0001	LB	0	15.		1.	-
	0517	12/08/90	0001	LB	0	14.	G	1.	-
	0517	04/02/91	0001	LB	0	15.8	G	0.5	-
	0517	08/25/91	0001	LB	0	14.9		0.5	-
	0517	10/14/92	0001	LB	0	15.0		0.5	-
	0519	06/04/90	0001	LB	0	8.		1.	-
	0519	12/15/90	0001	LB	0	11.		1.	-
	0519	04/01/91	0001	LB	0	13.3		0.5	-
	0519	08/22/91	0001	LB	0	13.0		0.5	-
	0519	10/11/92	0001	LB	0	13.2		0.5	-
	0521	06/04/90	0001	LB	0	12.		1.	-
	0521	12/08/90	0001	LB	0	16.	G	1.	-
	0521	04/02/91	0001	LB	0	16.5	G	0.5	-
	0521	08/25/91	0001	LB	0	16.5		0.5	-
	0521	10/13/92	0001	LB	0	16.6		0.5	-
	0524	12/08/90	0001	LB	0	30.		1.	-
	0524	04/03/91	0001	LB	0	64.		0.5	-
	0524	08/26/91	0001	LB	0	52.		1.	-
	0524	10/14/92	0001	LB	0	18.5		0.5	-
CHROMIUM	0517	06/04/90	0001	LB	0	<		0.01	-
	0517	12/08/90	0001	LB	0	<	G	0.01	-
	0517	04/02/91	0001	LB	0	<	G	0.01	-
	0517	08/25/91	0001	LB	0	<		0.01	-
	0517	10/14/92	0001	LB	0	<		0.01	-
	0519	06/04/90	0001	LB	0	<		0.01	-
	0519	12/15/90	0001	LB	0	<		0.01	-
	0519	04/01/91	0001	LB	0	<		0.01	-
	0519	08/22/91	0001	LB	0	<		0.01	-
	0519	10/11/92	0001	LB	0	<		0.01	-
	0521	06/04/90	0001	LB	0	<		0.01	-
	0521	12/08/90	0001	LB	0	<	G	0.01	-
	0521	04/02/91	0001	LB	0	<	G	0.01	-
	0521	08/25/91	0001	LB	0	<		0.01	-
	0521	10/14/92	0001	LB	0	<		0.01	-
	0521	06/04/90	0001	LB	0	<		0.01	-

FORMATION OF COMPLETION CODE:
LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
G - PH > 9, POSSIBLE GROUT CONTAMINATION

87 J.D.

6/16/93

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CHROMIUM	0521	10/13/92	0001	LB	O	MG/L	<	0.01		0.01	-
	0524	12/08/90	0001	LB	O		<	0.01		0.01	-
	0524	04/03/91	0001	LB	O		<	0.01		0.01	-
	0524	08/26/91	0001	LB	O		<	0.01		0.01	-
	0524	10/14/92	0001	LB	O		<	0.01		0.01	-
COBALT	0517	06/04/90	0001	LB	O	MG/L	<	0.05		0.05	-
	0517	12/08/90	0001	LB	O		<	0.05	G	0.05	-
	0517	04/02/91	0001	LB	O		<	0.03	G	0.03	-
	0517	08/25/91	0001	LB	O		<	0.03		0.03	-
	0519	06/04/90	0001	LB	O		<	0.05		0.05	-
	0519	12/15/90	0001	LB	O		<	0.05		0.05	-
	0519	04/01/91	0001	LB	O		<	0.03		0.03	-
	0519	08/22/91	0001	LB	O		<	0.03		0.03	-
	0521	06/04/90	0001	LB	O		<	0.05		0.05	-
	0521	12/08/90	0001	LB	O		<	0.05	G	0.05	-
	0521	04/02/91	0001	LB	O		<	0.03	G	0.03	-
	0521	08/25/91	0001	LB	O		<	0.03		0.03	-
	0524	12/08/90	0001	LB	O		<	0.05		0.05	-
	0524	04/03/91	0001	LB	O		<	0.03		0.03	-
	0524	08/26/91	0001	LB	O		<	0.03		0.03	-
COPPER	0517	06/04/90	0001	LB	O	MG/L	<	0.02		0.02	-
	0517	12/08/90	0001	LB	O		<	0.02	G	0.02	-
	0517	04/02/91	0001	LB	O		<	0.01	G	0.01	-
	0517	08/25/91	0001	LB	O		<	0.01		0.01	-
	0517	10/14/92	0001	LB	O		<	0.01		0.01	-
	0519	06/04/90	0001	LB	O		<	0.02		0.02	-
	0519	12/15/90	0001	LB	O		<	0.02		0.02	-
	0519	04/01/91	0001	LB	O		<	0.01		0.01	-
	0519	08/22/91	0001	LB	O		<	0.01		0.01	-
	0519	10/11/92	0001	LB	O		<	0.01		0.01	-
	0521	06/04/90	0001	LB	O		<	0.02		0.02	-
	0521	12/08/90	0001	LB	O		<	0.02	G	0.02	-
	0521	04/02/91	0001	LB	O		<	0.01	G	0.01	-
	0521	08/25/91	0001	LB	O		<	0.01		0.01	-
	0521	10/13/92	0001	LB	O		<	0.01		0.01	-
	0524	12/08/90	0001	LB	O		<	0.02		0.02	-
	0524	04/03/91	0001	LB	O		<	0.01		0.01	-
	0524	08/26/91	0001	LB	O		<	0.01		0.01	-

FORMATION OF COMPLETION CODE:
LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
G - PH > 9, POSSIBLE GROUT CONTAMINATION

84

88 J.O.
6/15/93

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
COPPER	0524	10/14/92	0001	LB	O	MG/L	<	0.01		0.01	-
CYANIDE	0517	12/08/90	0001	LB	O	MG/L	<	0.01	G	0.01	-
	0517	04/02/91	0001	LB	O		<	0.01	G	0.01	-
	0517	08/25/91	0001	LB	O		<	0.01		0.01	-
	0519	12/15/90	0001	LB	O		<	0.01		0.01	-
	0519	04/01/91	0001	LB	O		<	0.01		0.01	-
	0519	08/22/91	0001	LB	O		<	0.01		0.01	-
	0521	12/08/90	0001	LB	O		<	0.01	G	0.01	-
	0521	04/02/91	0001	LB	O		<	0.01	G	0.01	-
	0521	08/25/91	0001	LB	O		<	0.01		0.01	-
	0524	12/08/90	0001	LB	O		<	0.01		0.01	-
	0524	04/03/91	0001	LB	O		<	0.01		0.01	-
	0524	08/26/91	0001	LB	O		<	0.01		0.01	-
DISSOLVED OXYGEN	0517	10/14/92	0001	LB	O	MG/L		0.9		-	-
	0519	10/11/92	0001	LB	O			3.6		-	-
	0521	10/13/92	0001	LB	O			1.1		-	-
	0524	10/14/92	0001	LB	O			1.2		-	-
FLUORIDE	0517	06/04/90	0001	LB	O	MG/L		0.7		0.1	-
	0517	12/08/90	0001	LB	O			0.7	G	0.1	-
	0517	04/02/91	0001	LB	O			0.6	G	0.1	-
	0517	08/25/91	0001	LB	O			0.5		0.1	-
	0517	10/14/92	0001	LB	O			0.6		0.1	-
	0519	06/04/90	0001	LB	O			0.4		0.1	-
	0519	12/15/90	0001	LB	O			0.5		0.1	-
	0519	04/01/91	0001	LB	O			0.3		0.1	-
	0519	08/22/91	0001	LB	O			0.4		0.1	-
	0519	10/11/92	0001	LB	O			0.4		0.1	-
	0521	06/04/90	0001	LB	O			0.6		0.1	-
	0521	12/08/90	0001	LB	O			0.9	G	0.1	-
	0521	04/02/91	0001	LB	O			0.6	G	0.1	-
	0521	08/25/91	0001	LB	O			0.6		0.1	-
	0521	10/13/92	0001	LB	O			0.7		0.1	-
	0524	12/08/90	0001	LB	O			0.6		0.1	-
	0524	04/03/91	0001	LB	O			0.6		0.1	-
	0524	08/26/91	0001	LB	O			0.5		0.1	-
	0524	10/14/92	0001	LB	O			0.5		0.1	-
GROSS ALPHA	0517	12/08/90	0001	LB	O	PCI/L		2.1	G	1.	2.6

FORMATION OF COMPLETION CODE:
LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
G - PH > 9, POSSIBLE GROUT CONTAMINATION

85

89 J.A.
6/15/93

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI	VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
GROSS ALPHA	0517	04/02/91	0001	LB	0	PCI/L		0.0	G	1.	3.2
	0517	08/25/91	0001	LB	0			0.0		1.	4.7
	0517	10/14/92	0001	LB	0			0.0	N	5.8	3.3
	0519	12/15/90	0001	LB	0		<	2.6	b	1.	2.6
	0519	04/01/91	0001	LB	0			0.0		1.	2.8
	0519	08/22/91	0001	LB	0			1.5		1.	5.0
	0519	10/11/92	0001	LB	0			0.0	N	6.5	3.2
	0521	12/08/90	0001	LB	0			8.1	G	1.	3.7
	0521	04/02/91	0001	LB	0			4.3	G	1.	4.0
	0521	08/25/91	0001	LB	0			7.1		1.	5.9
	0521	10/13/92	0001	LB	0			0.0	N	7.2	3.6
	0524	12/08/90	0001	LB	0			0.2		1.	3.1
	0524	04/03/91	0001	LB	0			0.0		1.	4.1
	0524	08/26/91	0001	LB	0			3.6		1.	7.2
	0524	10/14/92	0001	LB	0			1.0	N	6.1	3.7
GROSS BETA	0517	12/08/90	0001	LB	0	PCI/L		1.9	G	0.5	1.8
	0517	04/02/91	0001	LB	0			6.1	G	0.5	2.3
	0517	08/25/91	0001	LB	0			0.0		0.5	4.1
	0517	10/14/92	0001	LB	0			0.0	*N	5.2	3.0
	0519	12/15/90	0001	LB	0			0.6		0.5	1.6
	0519	04/01/91	0001	LB	0			0.0		0.5	2.2
	0519	08/22/91	0001	LB	0			1.6		0.5	3.4
	0519	10/11/92	0001	LB	0			0.0	*N	6.3	3.7
	0521	12/08/90	0001	LB	0			4.0	G	0.5	1.9
	0521	04/02/91	0001	LB	0			1.5	G	0.5	2.2
	0521	08/25/91	0001	LB	0			1.6		0.5	3.9
	0521	10/13/92	0001	LB	0			1.6	*N	6.2	3.8
	0524	12/08/90	0001	LB	0			1.9		0.5	1.8
	0524	04/03/91	0001	LB	0			0.0		0.5	2.6
	0524	08/26/91	0001	LB	0			2.6		0.5	4.6
	0524	10/14/92	0001	LB	0			0.0	*N	5.1	3.0
IRON	0517	06/04/90	0001	LB	0	MG/L		0.06		0.03	-
	0517	12/08/90	0001	LB	0		<	0.03	G	0.03	-
	0517	04/02/91	0001	LB	0			0.03	G	0.03	-
	0517	08/25/91	0001	LB	0			0.04		0.03	-

FORMATION OF COMPLETION CODE:
LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

- * - DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS
- G - PH > 9, POSSIBLE GROUT CONTAMINATION
- N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS
- b - CHANGED PARAMETER VALUE

86

90 50.
6/15/93

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
IRON	0517	10/14/92	0001	LB	0	MG/L	<	0.03		0.03	-
	0519	06/04/90	0001	LB	0		<	0.03		0.03	-
	0519	12/15/90	0001	LB	0		<	0.03		0.03	-
	0519	04/01/91	0001	LB	0		<	0.03		0.03	-
	0519	08/22/91	0001	LB	0		<	0.03		0.03	-
	0519	10/11/92	0001	LB	0		<	0.03		0.03	-
	0521	06/04/90	0001	LB	0			0.05		0.03	-
	0521	12/08/90	0001	LB	0		<	0.03	G	0.03	-
	0521	04/02/91	0001	LB	0		<	0.03	G	0.03	-
	0521	08/25/91	0001	LB	0		<	0.03		0.03	-
	0521	10/13/92	0001	LB	0		<	0.03		0.03	-
	0524	12/08/90	0001	LB	0		<	0.03		0.03	-
	0524	04/03/91	0001	LB	0		<	0.23		0.03	-
	0524	08/26/91	0001	LB	0		<	0.03		0.03	-
	0524	10/14/92	0001	LB	0			0.05		0.03	-
LEAD	0517	06/04/90	0001	LB	0	MG/L	<	0.01		0.01	-
	0517	12/08/90	0001	LB	0		<	0.01	G	0.01	-
	0517	04/02/91	0001	LB	0		<	0.005	G	0.005	-
	0517	08/25/91	0001	LB	0		<	0.005		0.005	-
	0517	10/14/92	0001	LB	0		<	0.02	I	0.02	-
	0519	06/04/90	0001	LB	0		<	0.01		0.01	-
	0519	12/15/90	0001	LB	0		<	0.01		0.01	-
	0519	04/01/91	0001	LB	0		<	0.005		0.005	-
	0519	08/22/91	0001	LB	0		<	0.005		0.005	-
	0519	10/11/92	0001	LB	0		<	0.003		0.003	-
	0521	06/04/90	0001	LB	0		<	0.01		0.01	-
	0521	12/08/90	0001	LB	0		<	0.01	G	0.01	-
	0521	04/02/91	0001	LB	0		<	0.005	G	0.005	-
	0521	08/25/91	0001	LB	0		<	0.005		0.005	-
	0521	10/13/92	0001	LB	0		<	0.02	I	0.02	-
	0524	12/08/90	0001	LB	0		<	0.01		0.01	-
	0524	04/03/91	0001	LB	0		<	0.005		0.005	-
	0524	08/26/91	0001	LB	0		<	0.005		0.005	-
	0524	10/14/92	0001	LB	0		<	0.003		0.003	-
LEAD-210	0517	12/08/90	0001	LB	0	PCI/L	<	0.8	Gb	1.5	0.8
	0517	04/02/91	0001	LB	0			0.4	G	1.5	1.4

FORMATION OF COMPLETION CODE:
LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
G - PH > 9, POSSIBLE GROUT CONTAMINATION
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
b - CHANGED PARAMETER VALUE

87

91 Q.D.
6/15/93

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
LEAD-210	0517	08/25/91	0001	LB	0	PCI/L	0.0		1.5	1.0
	0519	12/15/90	0001	LB	0		< 0.9	b	1.5	0.9
	0519	04/01/91	0001	LB	0		0.9		1.5	1.4
	0519	08/22/91	0001	LB	0		0.0		1.5	0.9
	0521	12/08/90	0001	LB	0		< 1.0	gb	1.5	1.0
	0521	04/02/91	0001	LB	0		0.5	G	1.5	1.4
	0521	08/25/91	0001	LB	0		0.5		1.5	1.0
	0524	12/08/90	0001	LB	0		0.3	c	1.1	0.8
	0524	04/03/91	0001	LB	0		0.0		1.5	1.3
	0524	08/26/91	0001	LB	0		0.0		1.5	0.9
MAGNESIUM	0517	06/04/90	0001	LB	0	MG/L	0.25		0.001	-
	0517	12/08/90	0001	LB	0		0.14	G	0.001	-
	0517	04/02/91	0001	LB	0		0.1	G	0.1	-
	0517	08/25/91	0001	LB	0		< 0.1		0.1	-
	0517	10/14/92	0001	LB	0		< 0.1		0.1	-
	0519	06/04/90	0001	LB	0		0.40		0.001	-
	0519	12/15/90	0001	LB	0		0.27		0.001	-
	0519	04/01/91	0001	LB	0		0.2		0.1	-
	0519	08/22/91	0001	LB	0		< 0.1		0.1	-
	0519	10/11/92	0001	LB	0		0.3		0.1	-
	0521	06/04/90	0001	LB	0		0.45		0.001	-
	0521	12/08/90	0001	LB	0		0.31	G	0.001	-
	0521	04/02/91	0001	LB	0		0.2	G	0.1	-
	0521	08/25/91	0001	LB	0		0.1		0.1	-
	0521	10/13/92	0001	LB	0		0.1		0.1	-
	0524	12/08/90	0001	LB	0		0.48		0.001	-
	0524	04/03/91	0001	LB	0		0.6		0.1	-
	0524	08/26/91	0001	LB	0		0.5		0.1	-
	0524	10/14/92	0001	LB	0		0.2		0.1	-
MANGANESE	0517	06/04/90	0001	LB	0	MG/L	< 0.01		0.01	-
	0517	12/08/90	0001	LB	0		< 0.01	G	0.01	-
	0517	04/02/91	0001	LB	0		< 0.01	G	0.01	-
	0517	08/25/91	0001	LB	0		< 0.01		0.01	-
	0517	10/14/92	0001	LB	0		< 0.01		0.01	-
	0519	06/04/90	0001	LB	0		< 0.01		0.01	-
	0519	12/15/90	0001	LB	0		< 0.04	c	0.04	-

FORMATION OF COMPLETION CODE:
LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
G - PH > 9, POSSIBLE GROUT CONTAMINATION
b - CHANGED PARAMETER VALUE
c - CHANGED DETECTION LIMIT

88

42 222
6/15/93

89

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM FLOW COMP REL.	UNITS OF MEASURE	PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MANGANESE	0519	04/01/91	0001	LB	0	0.01		0.01	-
	0519	08/22/91	0001	LB	0	0.01		0.01	-
	0519	10/11/92	0001	LB	0	0.01		0.01	-
	0521	06/04/90	0001	LB	0	0.01		0.01	-
	0521	12/08/90	0001	LB	0	0.01	G	0.01	-
	0521	04/02/91	0001	LB	0	0.01	G	0.01	-
	0521	08/25/91	0001	LB	0	0.01		0.01	-
	0521	10/13/92	0001	LB	0	0.01		0.01	-
	0524	12/08/90	0001	LB	0	0.01		0.01	-
	0524	04/03/91	0001	LB	0	0.02		0.01	-
	0524	08/26/91	0001	LB	0	0.01		0.01	-
	0524	10/14/92	0001	LB	0	0.01		0.01	-
MERCURY	0517	06/04/90	0001	LB	0	0.0002	G	0.0002	-
	0517	12/08/90	0001	LB	0	0.0002	G	0.0002	-
	0517	04/02/91	0001	LB	0	0.0002	G	0.0002	-
	0517	08/25/91	0001	LB	0	0.0002		0.0002	-
	0519	06/04/90	0001	LB	0	0.0002		0.0002	-
	0519	12/15/90	0001	LB	0	0.0002		0.0002	-
	0519	04/01/91	0001	LB	0	0.0002		0.0002	-
	0519	08/22/91	0001	LB	0	0.0002		0.0002	-
	0521	06/04/90	0001	LB	0	0.0002	G	0.0002	-
	0521	12/08/90	0001	LB	0	0.0002	G	0.0002	-
	0521	04/02/91	0001	LB	0	0.0002		0.0002	-
	0521	08/25/91	0001	LB	0	0.0002		0.0002	-
	0524	12/08/90	0001	LB	0	0.0002		0.0002	-
	0524	04/03/91	0001	LB	0	0.0002		0.0002	-
	0524	08/26/91	0001	LB	0	0.0002		0.0002	-
MOLYBDENUM	0517	06/04/90	0001	LB	0	0.01		0.01	-
	0517	12/08/90	0001	LB	0	0.02	G	0.01	-
	0517	04/02/91	0001	LB	0	0.01	G	0.01	-
	0517	08/25/91	0001	LB	0	0.01		0.01	-
	0517	10/14/92	0001	LB	0	0.01		0.01	-
	0519	06/04/90	0001	LB	0	0.01		0.01	-
	0519	12/15/90	0001	LB	0	0.02		0.01	-
	0519	04/01/91	0001	LB	0	0.01		0.01	-
	0519	08/22/91	0001	LB	0	0.01		0.01	-
	0519	10/11/92	0001	LB	0	0.01		0.01	-
	0521	06/04/90	0001	LB	0	0.01		0.01	-

FORMATION OF COMPLETION CODE:
LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
G - PH > 9, POSSIBLE GROUT CONTAMINATION

93 DJ
6/15/9

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MOLYBDENUM	0521	12/08/90	0001	LB	0	MG/L		0.04	G	0.01	-
	0521	04/02/91	0001	LB	0		<	0.01	G	0.01	-
	0521	08/25/91	0001	LB	0		<	0.01		0.01	-
	0521	10/13/92	0001	LB	0			0.02		0.01	-
	0524	12/08/90	0001	LB	0			0.02		0.01	-
	0524	04/03/91	0001	LB	0		<	0.01		0.01	-
	0524	08/26/91	0001	LB	0		<	0.01		0.01	-
	0524	10/14/92	0001	LB	0		<	0.01		0.01	-
NET GROSS ALPHA *	0517	12/08/90	0001	LB	0	PCI/L		2.00		-	-
	0517	04/02/91	0001	LB	0			-0.34		-	-
	0517	08/25/91	0001	LB	0			-5.49		-	-
	0517	10/14/92	0001	LB	0			-0.34		-	-
	0519	12/15/90	0001	LB	0			0.40		-	-
	0519	04/01/91	0001	LB	0			-0.34		-	-
	0519	08/22/91	0001	LB	0			0.13		-	-
	0519	10/11/92	0001	LB	0			-1.37		-	-
	0521	12/08/90	0001	LB	0			5.77		-	-
	0521	04/02/91	0001	LB	0			2.93		-	-
	0521	08/25/91	0001	LB	0			6.76		-	-
	0521	10/13/92	0001	LB	0			-0.34		-	-
	0524	12/08/90	0001	LB	0			-0.07		-	-
	0524	04/03/91	0001	LB	0			-0.34		-	-
	0524	08/26/91	0001	LB	0			3.26		-	-
	0524	10/14/92	0001	LB	0			0.66		-	-
NICKEL	0517	06/04/90	0001	LB	0	MG/L	<	0.04		0.04	-
	0517	12/08/90	0001	LB	0		<	0.04	G	0.04	-
	0517	04/02/91	0001	LB	0		<	0.04	G	0.04	-
	0517	08/25/91	0001	LB	0		<	0.04		0.04	-
	0517	10/14/92	0001	LB	0		<	0.04		0.04	-
	0519	06/04/90	0001	LB	0		<	0.04		0.04	-
	0519	12/15/90	0001	LB	0		<	0.04		0.04	-
	0519	04/01/91	0001	LB	0		<	0.04		0.04	-
	0519	08/22/91	0001	LB	0		<	0.04		0.04	-
	0519	10/11/92	0001	LB	0		<	0.04		0.04	-
	0521	06/04/90	0001	LB	0		<	0.04		0.04	-
	0521	12/08/90	0001	LB	0		<	0.04	G	0.04	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

FORMATION OF COMPLETION CODE:
LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
G - PH > 9, POSSIBLE GROUT CONTAMINATION

90

94 J.D.
6/15/93

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NICKEL	0521	04/02/91	0001	LB	O	MG/L	<	0.04	G	0.04	-
	0521	08/25/91	0001	LB	O		<	0.04		0.04	-
	0521	10/13/92	0001	LB	O		<	0.04		0.04	-
	0524	12/08/90	0001	LB	O		<	0.04		0.04	-
	0524	04/03/91	0001	LB	O		<	0.04		0.04	-
	0524	08/26/91	0001	LB	O		<	0.04		0.04	-
	0524	10/14/92	0001	LB	O		<	0.04		0.04	-
NITRATE	0517	06/04/90	0001	LB	O	MG/L	<	1.		1.	-
	0517	04/02/91	0001	LB	O		<	1.0	G	1.	-
	0517	08/25/91	0001	LB	O			3.5		1.	-
	0517	10/14/92	0001	LB	O			2.0		0.1	-
	0519	06/04/90	0001	LB	O		<	1.		1.	-
	0519	04/01/91	0001	LB	O		<	1.0		1.	-
	0519	08/22/91	0001	LB	O			19.5		1.	-
	0519	10/11/92	0001	LB	O			1.7		1.0	-
	0521	06/04/90	0001	LB	O		<	1.		1.	-
	0521	04/02/91	0001	LB	O		<	1.0	G	1.	-
	0521	08/25/91	0001	LB	O			5.3		1.	-
	0521	10/13/92	0001	LB	O			1.7		0.1	-
	0524	04/03/91	0001	LB	O		<	1.0		1.	-
	0524	08/26/91	0001	LB	O			11.5		1.	-
	0524	10/14/92	0001	LB	O			1.6		0.1	-
NITRITE AND NITRATE	0517	06/04/90	0001	LB	O	MG/L	<	1.		1.	-
	0517	04/02/91	0001	LB	O			0.23	G	0.05	-
	0517	08/25/91	0001	LB	O			0.76		0.05	-
	0519	06/04/90	0001	LB	O		<	1.		1.	-
	0519	04/01/91	0001	LB	O			0.19		0.05	-
	0519	08/22/91	0001	LB	O			4.37		0.05	-
	0521	06/04/90	0001	LB	O		<	1.		1.	-
	0521	04/02/91	0001	LB	O			0.20	G	0.05	-
	0521	08/25/91	0001	LB	O			1.23		0.05	-
	0524	04/03/91	0001	LB	O			0.22		0.05	-
PH	0517	06/04/90	0001	LB	O	SU		9.13		-	-
	0517	12/08/90	0001	LB	O			9.14	G	-	-
	0517	04/02/91	0001	LB	O			9.22	G	-	-
	0517	08/25/91	0001	LB	O			9.21		-	-

FORMATION OF COMPLETION CODE:
LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
G - PH > 9, POSSIBLE GROUT CONTAMINATION

16

95 B.O.
6/15/93

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PH	0517	10/14/92	0001	LB	0	SU	9.24		-	-
	0519	06/04/90	0001	LB	0		8.68		-	-
	0519	12/15/90	0001	LB	0		8.57		-	-
	0519	04/01/91	0001	LB	0		8.65		-	-
	0519	08/22/91	0001	LB	0		8.76		-	-
	0519	10/11/92	0001	LB	0		8.77		-	-
	0521	06/04/90	0001	LB	0		9.55		-	-
	0521	12/08/90	0001	LB	0		9.05	G	-	-
	0521	04/02/91	0001	LB	0		9.09	G	-	-
	0521	08/25/91	0001	LB	0		9.15		-	-
	0521	10/13/92	0001	LB	0		9.15		-	-
	0524	06/06/90	0001	LB	0		9.05		-	-
	0524	12/08/90	0001	LB	0		8.82		-	-
	0524	04/03/91	0001	LB	0		8.75		-	-
	0524	08/26/91	0001	LB	0		8.85		-	-
	0524	10/14/92	0001	LB	0		9.07		-	-
PHOSPHATE	0517	06/04/90	0001	LB	0	MG/L	0.9		0.1	-
	0517	04/02/91	0001	LB	0		0.7	G	0.1	-
	0517	08/25/91	0001	LB	0		0.7		0.1	-
	0517	10/14/92	0001	LB	0		0.6	J	0.1	-
	0519	06/04/90	0001	LB	0		0.7		0.1	-
	0519	04/01/91	0001	LB	0		0.7		0.1	-
	0519	08/22/91	0001	LB	0		0.6		0.1	-
	0519	10/11/92	0001	LB	0		0.6	J	0.1	-
	0521	06/04/90	0001	LB	0		0.8		0.1	-
	0521	04/02/91	0001	LB	0		0.7	G	0.1	-
	0521	08/25/91	0001	LB	0		0.7		0.1	-
	0521	10/13/92	0001	LB	0		0.6	J	0.1	-
	0524	04/03/91	0001	LB	0		0.6		0.1	-
	0524	08/26/91	0001	LB	0		0.5		0.1	-
	0524	10/14/92	0001	LB	0		0.5	J	0.1	-
POLONIUM-210	0517	12/08/90	0001	LB	0	PCI/L	0.2	Gc	0.6	0.4
	0517	04/02/91	0001	LB	0		0.1	G	1.	0.1
	0517	08/25/91	0001	LB	0		0.2		1.	0.4
	0519	12/15/90	0001	LB	0		0.7		1.	0.4
	0519	04/01/91	0001	LB	0		0.0		1.	0.1

FORMATION OF COMPLETION CODE:
LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
G - PH > 9, POSSIBLE GROUT CONTAMINATION
J - ESTIMATED VALUE
c - CHANGED DETECTION LIMIT

66

96 D.D.
6/15/93

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
POLONIUM-210	0519	08/22/91	0001	LB	O	PCI/L		0.1		1.	0.3
	0521	12/08/90	0001	LB	O			0.9	G	1.	0.5
	0521	04/02/91	0001	LB	O			0.0	G	1.	0.1
	0521	08/25/91	0001	LB	O			0.1		1.	0.3
	0524	12/08/90	0001	LB	O		<	0.3	d	0.1	0.3
	0524	04/03/91	0001	LB	O			0.1		1.	0.1
	0524	08/26/91	0001	LB	O			0.2		1.	0.5
POTASSIUM	0517	06/04/90	0001	LB	O	MG/L		0.7		0.01	-
	0517	12/08/90	0001	LB	O			0.6	G	0.01	-
	0517	04/02/91	0001	LB	O			0.69	G	0.01	-
	0517	08/25/91	0001	LB	O			0.29		0.01	-
	0517	10/14/92	0001	LB	O			0.52		0.01	-
	0519	06/04/90	0001	LB	O			1.0		0.01	-
	0519	12/15/90	0001	LB	O			0.5		0.01	-
	0519	04/01/91	0001	LB	O			0.92		0.01	-
	0519	08/22/91	0001	LB	O			0.45		0.01	-
	0519	10/11/92	0001	LB	O			0.50		0.01	-
	0521	06/04/90	0001	LB	O			13.4		0.01	-
	0521	12/08/90	0001	LB	O			1.0	G	0.01	-
	0521	04/02/91	0001	LB	O			3.1	G	0.01	-
	0521	08/25/91	0001	LB	O			1.30		0.01	-
	0521	10/13/92	0001	LB	O			2.16		0.01	-
	0524	12/08/90	0001	LB	O			1.5		0.01	-
	0524	04/03/91	0001	LB	O			1.29		0.01	-
	0524	08/26/91	0001	LB	O			1.14		0.01	-
	0524	10/14/92	0001	LB	O			0.64		0.01	-
RADIUM-226	0517	06/04/90	0001	LB	O	PCI/L	<	0.1	d	0.1	0.1
	0517	12/08/90	0001	LB	O		<	0.1	Gd	0.1	0.1
	0517	04/02/91	0001	LB	O			0.1	G	1.	0.1
	0517	08/25/91	0001	LB	O			0.0		1.	0.2
	0517	10/14/92	0001	LB	O			0.0		0.8	0.4
	0519	06/04/90	0001	LB	O		<	0.1	d	0.1	0.1
	0519	12/15/90	0001	LB	O		<	0.1	d	0.1	0.1
	0519	04/01/91	0001	LB	O			0.0		1.	0.1
	0519	08/22/91	0001	LB	O			0.0		1.	0.2
	0519	10/11/92	0001	LB	O			0.0		0.8	0.4
	0521	06/04/90	0001	LB	O			0.3	c	0.6	0.3

FORMATION OF COMPLETION CODE:
LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
G - PH > 9, POSSIBLE GROUT CONTAMINATION
c - CHANGED DETECTION LIMIT
d - CHANGED DETECTION LIMIT AND PARAMETER VALUE

93

97 J.R.
6/15/93

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
RADIUM-226	0521	12/08/90	0001	LB	O	PC1/L		0.2	Gc	0.4	0.2
	0521	04/02/91	0001	LB	O			0.2	G	1.	0.1
	0521	08/25/91	0001	LB	O			0.0		1.	0.2
	0521	10/13/92	0001	LB	O			0.0		0.8	0.5
	0524	12/08/90	0001	LB	O			0.4	c	0.7	0.3
	0524	04/03/91	0001	LB	O			0.0		1.	0.1
	0524	08/26/91	0001	LB	O			0.0		1.	0.2
	0524	10/14/92	0001	LB	O			0.0		0.8	0.4
RADIUM-226 + RADIUM-228	0517	06/04/90	0001	LB	O	PC1/L		0.45		-	-
	0517	12/08/90	0001	LB	O			0.55		-	-
	0517	04/02/91	0001	LB	O			0.60		-	-
	0517	08/25/91	0001	LB	O			0.00		-	-
	0517	10/14/92	0001	LB	O			0.00		-	-
	0519	06/04/90	0001	LB	O			0.95		-	-
	0519	12/15/90	0001	LB	O			0.75		-	-
	0519	04/01/91	0001	LB	O			1.10		-	-
	0519	08/22/91	0001	LB	O			0.00		-	-
	0519	10/11/92	0001	LB	O			0.00		-	-
	0521	06/04/90	0001	LB	O			0.90		-	-
	0521	12/08/90	0001	LB	O			1.50		-	-
	0521	04/02/91	0001	LB	O			1.70		-	-
	0521	08/25/91	0001	LB	O			0.00		-	-
	0521	10/13/92	0001	LB	O			0.00		-	-
	0524	12/08/90	0001	LB	O			1.60		-	-
	0524	04/03/91	0001	LB	O			0.00		-	-
	0524	08/26/91	0001	LB	O			0.00		-	-
	0524	10/14/92	0001	LB	O			0.00		-	-
RADIUM-228	0517	06/04/90	0001	LB	O	PC1/L		0.4		1.	0.7
	0517	12/08/90	0001	LB	O			0.5	G	1.	0.9
	0517	04/02/91	0001	LB	O			0.5	G	1.	0.9
	0517	08/25/91	0001	LB	O			0.0		1.	2.0
	0517	10/14/92	0001	LB	O			0.0	N	4.1	2.4
	0519	06/04/90	0001	LB	O			0.9		1.	0.7
	0519	12/15/90	0001	LB	O			0.7		1.	0.7
	0519	04/01/91	0001	LB	O			1.1		1.	1.0
	0519	08/22/91	0001	LB	O			0.0		1.	2.5
	0519	10/11/92	0001	LB	O			0.0		2.9	1.6

FORMATION OF COMPLETION CODE:
LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
G - PH > 9, POSSIBLE GROUT CONTAMINATION
N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS
c - CHANGED DETECTION LIMIT

h6

98 D.P.
6/15/92

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
RADIUM-228	0521	06/04/90	0001	LB	0	PCI/L		0.6		1.	0.7
	0521	12/08/90	0001	LB	0			1.3	G	1.	0.8
	0521	04/02/91	0001	LB	0			1.5	G	1.	1.0
	0521	08/25/91	0001	LB	0			0.0		1.	2.0
	0521	10/13/92	0001	LB	0			0.0	N	4.1	2.3
	0524	12/08/90	0001	LB	0			1.2		1.	0.8
	0524	04/03/91	0001	LB	0			0.0		1.	1.2
	0524	08/26/91	0001	LB	0			0.0		1.	2.6
	0524	10/14/92	0001	LB	0			0.0	N	4.1	2.3
REDOX POTENTIAL	0517	12/08/90	0001	LB	0	mVOLTS		342.3	G	-	-
	0517	10/14/92	0001	LB	0			383.6		-	-
	0519	12/15/90	0001	LB	0			268.2		-	-
	0519	10/11/92	0001	LB	0			395.1		-	-
	0521	10/13/92	0001	LB	0			393.1		-	-
	0524	12/08/90	0001	LB	0			261.2		-	-
	0524	10/14/92	0001	LB	0			402.0		-	-
SELENIUM	0517	06/04/90	0001	LB	0	MG/L	<	0.005		0.005	-
	0517	12/08/90	0001	LB	0		<	0.005	G	0.005	-
	0517	04/02/91	0001	LB	0		<	0.005	G	0.005	-
	0517	08/25/91	0001	LB	0		<	0.005		0.005	-
	0517	10/14/92	0001	LB	0		<	0.005		0.005	-
	0519	06/04/90	0001	LB	0		<	0.005		0.005	-
	0519	12/15/90	0001	LB	0		<	0.005		0.005	-
	0519	04/01/91	0001	LB	0		<	0.005		0.005	-
	0519	08/22/91	0001	LB	0		<	0.005		0.005	-
	0519	10/11/92	0001	LB	0		<	0.005		0.005	-
	0521	06/04/90	0001	LB	0		<	0.005		0.005	-
	0521	12/08/90	0001	LB	0		<	0.005	G	0.005	-
	0521	04/02/91	0001	LB	0		<	0.005	G	0.005	-
	0521	08/25/91	0001	LB	0		<	0.005		0.005	-
	0521	10/13/92	0001	LB	0		<	0.005		0.005	-
	0524	12/08/90	0001	LB	0		<	0.005		0.005	-
	0524	04/03/91	0001	LB	0		<	0.005		0.005	-
	0524	08/26/91	0001	LB	0		<	0.005		0.005	-
	0524	10/14/92	0001	LB	0		<	0.005		0.005	-
SILICA - SiO2	0517	06/04/90	0001	LB	0	MG/L		11.		2.	-

FORMATION OF COMPLETION CODE:

LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:

0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

G - PH > 9, POSSIBLE GROUT CONTAMINATION

N - SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS

95

99 J.L.K
6/15/93

96

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SILICA - SiO2	0517	12/08/90	0001	LB	0		10.0	G	2.	-
	0517	04/02/91	0001	LB	0		9.9	G	0.1	-
	0517	08/25/91	0001	LB	0		11.2		0.1	-
	0517	10/14/92	0001	LB	0		10.2		0.1	-
	0519	06/04/90	0001	LB	0		9.		2.	-
	0519	12/15/90	0001	LB	0		9.		2.	-
	0519	04/01/91	0001	LB	0		8.3		0.1	-
	0519	08/22/91	0001	LB	0		8.9		0.1	-
	0519	10/11/92	0001	LB	0		8.9		0.1	-
	0521	06/04/90	0001	LB	0		10.		2.	-
	0521	12/08/90	0001	LB	0		10.	G	2.	-
	0521	04/02/91	0001	LB	0		9.6	G	0.1	-
	0521	08/25/91	0001	LB	0		10.0		0.1	-
	0521	10/13/92	0001	LB	0		9.4		0.1	-
	0524	12/08/90	0001	LB	0		10.		2.	-
	0524	04/03/91	0001	LB	0		10.7		0.1	-
	0524	08/26/91	0001	LB	0		10.6		0.1	-
	0524	10/14/92	0001	LB	0		10.8		0.1	-
SILVER	0517	06/04/90	0001	LB	0		0.01		0.01	-
	0517	12/08/90	0001	LB	0		0.01	G	0.01	-
	0517	04/02/91	0001	LB	0		0.01	G	0.01	-
	0517	08/25/91	0001	LB	0		0.01		0.01	-
	0519	06/04/90	0001	LB	0		0.01		0.01	-
	0519	12/15/90	0001	LB	0		0.01		0.01	-
	0519	04/01/91	0001	LB	0		0.01		0.01	-
	0519	08/22/91	0001	LB	0		0.01		0.01	-
	0521	06/04/90	0001	LB	0		0.01		0.01	-
	0521	12/08/90	0001	LB	0		0.01	G	0.01	-
	0521	04/02/91	0001	LB	0		0.01	G	0.01	-
	0521	08/25/91	0001	LB	0		0.01		0.01	-
	0524	12/08/90	0001	LB	0		0.01		0.01	-
	0524	04/03/91	0001	LB	0		0.01		0.01	-
	0524	08/26/91	0001	LB	0		0.01		0.01	-
	0524	10/14/92	0001	LB	0		0.01		0.01	-
SODIUM	0517	06/04/90	0001	LB	0		139.		0.002	-
	0517	12/08/90	0001	LB	0		132.	G	0.002	-
	0517	04/02/91	0001	LB	0		136.	G	5.	-
	0517	08/25/91	0001	LB	0		136.		5.	-
	0517	10/14/92	0001	LB	0		132.		5.	-

FORMATION OF COMPLETION CODE:
LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
G - PH > 9, POSSIBLE GROUT CONTAMINATION

100 J.D.
6/15/9.

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SODIUM	0519	06/04/90	0001	LB	0	MG/L		112.		0.002	-
	0519	12/15/90	0001	LB	0			108.		0.002	-
	0519	04/01/91	0001	LB	0			115.		5.	-
	0519	08/22/91	0001	LB	0			112.		5.	-
	0519	10/11/92	0001	LB	0			110.		5.	-
	0521	06/04/90	0001	LB	0			142.		0.002	-
	0521	12/08/90	0001	LB	0			161.		0.002	-
	0521	04/02/91	0001	LB	0			148.	G	5.	-
	0521	08/25/91	0001	LB	0			140.	G	5.	-
	0521	10/13/92	0001	LB	0			129.		5.	-
	0524	12/08/90	0001	LB	0			133.		0.002	-
	0524	04/03/91	0001	LB	0			182.		5.	-
	0524	08/26/91	0001	LB	0			158.		5.	-
	0524	10/14/92	0001	LB	0			124.		5.	-
SPECIFIC CONDUCTANCE	0517	06/04/90	0001	LB	0	UMHO/CM		465.		-	-
	0517	04/02/91	0001	LB	0			599.	G	-	-
	0517	08/25/91	0001	LB	0			585		-	-
	0517	10/14/92	0001	LB	0			489		-	-
	0519	06/04/90	0001	LB	0			380.		-	-
	0519	12/15/90	0001	LB	0			407.		-	-
	0519	04/01/91	0001	LB	0			501.		-	-
	0519	08/22/91	0001	LB	0			410		-	-
	0519	10/11/92	0001	LB	0			381		-	-
	0521	06/04/90	0001	LB	0			520.		-	-
	0521	04/02/91	0001	LB	0			649.	G	-	-
	0521	08/25/91	0001	LB	0			534		-	-
	0521	10/13/92	0001	LB	0			536		-	-
	0524	06/06/90	0001	LB	0			495.		-	-
	0524	04/03/91	0001	LB	0			790.		-	-
	0524	08/26/91	0001	LB	0			691		-	-
	0524	10/14/92	0001	LB	0			454		-	-
STRONTIUM	0517	06/04/90	0001	LB	0	MG/L		0.06	c	0.06	-
	0517	12/08/90	0001	LB	0			0.1	G	0.1	-
	0517	04/02/91	0001	LB	0		<	0.06	G	0.01	-
	0517	08/25/91	0001	LB	0			0.04		0.01	-
	0517	10/14/92	0001	LB	0			0.04		0.01	-
	0519	06/04/90	0001	LB	0			0.08	c	0.08	-

FORMATION OF COMPLETION CODE:
LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
G - PH > 9, POSSIBLE GROUT CONTAMINATION
c - CHANGED DETECTION LIMIT

76

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR

THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)

06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION	ID	LOG DATE	SAMPLE ID	FORM	COMP	REL.	FLOW	MEASURE	UNITS OF	PARAMETER	PVI	VALUE	FLAGS	DETECTION	PARAMETER
STRONTIUM	0519	12/15/90	0001	LB	0					Mg/L	<	0.1	0.06		0.1	0.1
	0519	04/01/91	0001	LB	0							0.03	0.01		0.01	0.01
	0519	08/22/91	0001	LB	0							0.14	0.01		0.01	0.01
	0521	12/08/90	0001	LB	0							0.1	0.1	G	0.1	0.1
	0521	06/04/90	0001	LB	0							0.22	0.14		0.1	0.1
	0519	10/11/92	0001	LB	0							0.14	0.11		0.01	0.01
	0521	08/25/91	0001	LB	0							0.10	0.17		0.01	0.01
	0524	12/08/90	0001	LB	0							0.1	0.1		0.1	0.1
	0524	04/03/91	0001	LB	0							0.1	0.1		0.01	0.01
	0524	08/26/91	0001	LB	0							0.15	0.17		0.01	0.01
	0524	10/14/92	0001	LB	0							0.12	0.12		0.01	0.01
SULFATE	0517	06/04/90	0001	LB	0					Mg/L		83.	77.9	G	0.1	0.1
	0517	08/25/91	0001	LB	0							81.	78.		10.	0.1
	0517	10/14/92	0001	LB	0							69.	62.7		0.1	0.1
	0519	06/04/90	0001	LB	0							62.	63.		10.	0.1
	0519	08/22/91	0001	LB	0							62.	63.		10.	0.1
	0519	10/11/92	0001	LB	0							62.	63.		10.	0.1
	0521	06/04/90	0001	LB	0							62.	63.		10.	0.1
	0521	04/02/91	0001	LB	0							62.	63.		10.	0.1
	0521	04/02/91	0001	LB	0							62.	63.		10.	0.1
	0521	08/25/91	0001	LB	0							62.	63.		10.	0.1
	0524	04/03/91	0001	LB	0							62.	63.		10.	0.1
	0524	08/26/91	0001	LB	0							62.	63.		10.	0.1
	0524	10/14/92	0001	LB	0							62.	63.		10.	0.1
SULFIDE	0517	12/08/90	0001	LB	0					Mg/L	<	0.1	1.4	G	0.1	0.1
	0517	04/02/91	0001	LB	0							0.4	1.4		0.1	0.1
	0517	08/25/91	0001	LB	0							0.3	0.4		0.1	0.1
	0517	10/14/92	0001	LB	0							0.3	0.4		0.1	0.1
	0519	12/15/90	0001	LB	0							0.1	0.1		0.1	0.1
	0519	04/01/91	0001	LB	0							0.5	0.6		0.1	0.1
	0519	08/22/91	0001	LB	0							0.4	0.6		0.1	0.1
	0519	10/11/92	0001	LB	0							0.4	0.6		0.1	0.1
	0521	12/08/90	0001	LB	0							0.1	0.4		0.1	0.1
	0521	04/02/91	0001	LB	0							0.3	0.4		0.1	0.1
	0521	08/26/91	0001	LB	0							0.3	0.4		0.1	0.1
	0521	10/14/92	0001	LB	0							0.3	0.4		0.1	0.1
FORMATION OF COMPLETION CODE:	LB - LOWER BURRO CANYON															
	PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT															
	SAMPLE ID CODES:															
	0 - ON-SITE															
	FLOW RELATIONSHIP CODE:															
	0001 - FILTERED SAMPLE (.45 MICRONS)															
	OTHER PARAMETER VALUE FLAGS:															
	G - PH > 9, POSSIBLE GROUT CONTAMINATION															

101 J.D. 6/15/93

102 D.D.
6/15/93

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SULFIDE	0521	10/13/92	0001	LB	O	MG/L	<	0.1		0.1	-
	0524	12/08/90	0001	LB	O		<	0.1		0.1	-
	0524	04/03/91	0001	LB	O			3.26		0.1	-
	0524	08/26/91	0001	LB	O			0.8		0.1	-
	0524	10/14/92	0001	LB	O			0.1		0.1	-
TEMPERATURE	0517	06/04/90	0001	LB	O	C - DEGREE		16.0		-	-
	0517	12/08/90	0001	LB	O			13.5	G	-	-
	0517	04/02/91	0001	LB	O			13.6	G	-	-
	0517	08/25/91	0001	LB	O			16.5		-	-
	0517	10/14/92	0001	LB	O			18.3		-	-
	0519	06/04/90	0001	LB	O			17.0		-	-
	0519	12/15/90	0001	LB	O			14.0		-	-
	0519	04/01/91	0001	LB	O			14.4		-	-
	0519	08/22/91	0001	LB	O			22.3		-	-
	0519	10/11/92	0001	LB	O			14.2		-	-
	0521	06/04/90	0001	LB	O			16.5		-	-
	0521	12/08/90	0001	LB	O			17.5		-	-
	0521	04/02/91	0001	LB	O			14.4	G	-	-
	0521	08/25/91	0001	LB	O			17.4	G	-	-
	0521	10/13/92	0001	LB	O			19.1		-	-
	0524	06/06/90	0001	LB	O			19.0		-	-
	0524	12/08/90	0001	LB	O			17.0		-	-
	0524	04/03/91	0001	LB	O			15.5		-	-
	0524	08/26/91	0001	LB	O			19.1		-	-
	0524	10/14/92	0001	LB	O			16.0		-	-
THALLIUM	0517	06/04/90	0001	LB	O	MG/L	<	0.01		0.01	-
	0517	12/08/90	0001	LB	O		<	0.01	G	0.01	-
	0517	04/02/91	0001	LB	O		<	0.01	G	0.01	-
	0517	08/25/91	0001	LB	O		<	0.01		0.01	-
	0517	10/14/92	0001	LB	O		<	0.005		0.005	-
	0519	06/04/90	0001	LB	O		<	0.01		0.01	-
	0519	12/15/90	0001	LB	O		<	0.01		0.01	-
	0519	04/01/91	0001	LB	O		<	0.01		0.01	-
	0519	08/22/91	0001	LB	O		<	0.01		0.01	-
	0519	10/11/92	0001	LB	O		<	0.005		0.005	-
	0521	06/04/90	0001	LB	O		<	0.01		0.01	-
	0521	12/08/90	0001	LB	O		<	0.01	G	0.01	-
	0521	04/02/91	0001	LB	O		<	0.01	G	0.01	-

FORMATION OF COMPLETION CODE:
LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
G - PH > 9, POSSIBLE GROUT CONTAMINATION

bb

103 D.D.
6/15/93

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
THALLIUM	0521	08/25/91	0001	LB	0	MG/L	<	0.01		0.01	-
	0521	10/13/92	0001	LB	0		<	0.005		0.005	-
	0524	12/08/90	0001	LB	0		<	0.01		0.01	-
	0524	04/03/91	0001	LB	0		<	0.01		0.01	-
	0524	08/26/91	0001	LB	0		<	0.01		0.01	-
	0524	10/14/92	0001	LB	0		<	0.005		0.005	-
THORIUM-230	0517	12/08/90	0001	LB	0	PCI/L	<	0.4	Gd	0.1	0.4
	0517	04/02/91	0001	LB	0			0.1	G	1.	0.4
	0517	08/25/91	0001	LB	0			0.2		1.	0.4
	0519	12/15/90	0001	LB	0			0.1	c	0.5	0.4
	0519	04/01/91	0001	LB	0			0.3		1.	0.7
	0519	08/22/91	0001	LB	0			0.4		1.	0.5
	0521	12/08/90	0001	LB	0		<	0.3	Gd	0.1	0.3
	0521	04/02/91	0001	LB	0			0.0	G	1.	0.1
	0521	08/25/91	0001	LB	0			0.4		1.	0.4
	0524	12/08/90	0001	LB	0		<	0.4	d	0.1	0.4
	0524	04/03/91	0001	LB	0			0.3		1.	0.4
	0524	08/26/91	0001	LB	0			0.1		1.	0.3
TIN	0517	06/04/90	0001	LB	0	MG/L	<	0.005		0.005	-
	0517	12/08/90	0001	LB	0		<	0.005	G	0.005	-
	0517	04/02/91	0001	LB	0		<	0.005	G	0.005	-
	0517	08/25/91	0001	LB	0		<	0.005		0.005	-
	0517	10/14/92	0001	LB	0		<	0.005		0.005	-
	0519	06/04/90	0001	LB	0		<	0.005		0.005	-
	0519	12/15/90	0001	LB	0		<	0.005		0.005	-
	0519	04/01/91	0001	LB	0		<	0.005		0.005	-
	0519	08/22/91	0001	LB	0		<	0.005		0.005	-
	0519	10/11/92	0001	LB	0		<	0.005		0.005	-
	0521	06/04/90	0001	LB	0		<	0.005		0.005	-
	0521	12/08/90	0001	LB	0		<	0.005	G	0.005	-
	0521	04/02/91	0001	LB	0		<	0.005	G	0.005	-
	0521	08/25/91	0001	LB	0		<	0.005		0.005	-
	0521	10/13/92	0001	LB	0		<	0.005		0.005	-
	0524	12/08/90	0001	LB	0		<	0.005		0.005	-
	0524	04/03/91	0001	LB	0		<	0.005		0.005	-
	0524	08/26/91	0001	LB	0		<	0.005		0.005	-
	0524	10/14/92	0001	LB	0		<	0.005		0.005	-

FORMATION OF COMPLETION CODE:
LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
G - PH > 9, POSSIBLE GROUT CONTAMINATION
c - CHANGED DETECTION LIMIT
d - CHANGED DETECTION LIMIT AND PARAMETER VALUE

100

104 DE
6/15/93

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL DISSOLVED SOLIDS	0517	06/04/90	0001	LB	0	MG/L	332.		10.	-
	0517	12/08/90	0001	LB	0		320.	G	10.	-
	0517	04/02/91	0001	LB	0		467.	G	10.	-
	0517	08/25/91	0001	LB	0		349.		10.	-
	0517	10/14/92	0001	LB	0		356.		10.	-
	0519	06/04/90	0001	LB	0		268.		10.	-
	0519	12/15/90	0001	LB	0		256.		10.	-
	0519	04/01/91	0001	LB	0		308.		10.	-
	0519	08/22/91	0001	LB	0		289.		10.	-
	0519	10/11/92	0001	LB	0		285. <i>285.24 7/12/93</i>		10.	-
	0521	06/04/90	0001	LB	0		<i>364. - 0.042 c</i>		0.042	-
	0521	12/08/90	0001	LB	0		400.	G	10.	-
	0521	04/02/91	0001	LB	0		386.	G	10.	-
	0521	08/25/91	0001	LB	0		369.		10.	-
	0521	10/13/92	0001	LB	0		379.		10.	-
	0524	12/08/90	0001	LB	0		292.		10.	-
	0524	04/03/91	0001	LB	0		485.		10.	-
	0524	08/26/91	0001	LB	0		427.		10.	-
	0524	10/14/92	0001	LB	0		339.		10.	-
TOTAL KJELDAHL NITROGEN	0517	12/08/90	0001	LB	0	MG/L	< 1.	G	1.	-
	0517	04/02/91	0001	LB	0		1.	G	1.	-
	0517	08/25/91	0001	LB	0		1.		1.	-
	0519	12/15/90	0001	LB	0		< 1.		1.	-
	0519	04/01/91	0001	LB	0		< 1.		1.	-
	0519	08/22/91	0001	LB	0		< 1.		1.	-
	0521	12/08/90	0001	LB	0		< 1.	G	1.	-
	0521	04/02/91	0001	LB	0		1.	G	1.	-
	0521	08/25/91	0001	LB	0		< 1.		1.	-
	0524	12/08/90	0001	LB	0		< 1.		1.	-
	0524	04/03/91	0001	LB	0		< 1.		1.	-
	0524	08/26/91	0001	LB	0		< 1.		1.	-
TOTAL ORGANIC CARBON	0517	04/02/91	0001	LB	0	MG/L	< 1.	G	1.	-
	0517	08/25/91	0001	LB	0		< 1.		1.	-
	0517	10/14/92	0001	LB	0		3.	*J	1.	-
	0519	04/01/91	0001	LB	0		4.		1.	-
	0519	08/22/91	0001	LB	0		3.		1.	-

FORMATION OF COMPLETION CODE:

LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:

0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

* - DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS

G - PH > 9, POSSIBLE GROUT CONTAMINATION

J - ESTIMATED VALUE

c - CHANGED DETECTION LIMIT

101

105 D.D.
6/15/93

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL ORGANIC CARBON	0519	10/11/92	0001	LB	0	MG/L		1.		1.	-
	0521	04/02/91	0001	LB	0			3.	G	1.	-
	0521	08/25/91	0001	LB	0			1.		1.	-
	0521	10/13/92	0001	LB	0			4.	*J	1.	-
	0524	04/03/91	0001	LB	0			2.		1.	-
	0524	08/26/91	0001	LB	0			1.		1.	-
	0524	10/14/92	0001	LB	0			4.	*J	1.	-
URANIUM	0517	06/04/90	0001	LB	0	MG/L		0.0009	c	0.0009	-
	0517	12/08/90	0001	LB	0		<	0.0003	G	0.0003	-
	0517	04/02/91	0001	LB	0		<	0.001	G	0.001	-
	0517	08/25/91	0001	LB	0			0.008		0.001	-
	0517	10/14/92	0001	LB	0		<	0.001		0.001	-
	0519	06/04/90	0001	LB	0			0.006		0.003	-
	0519	12/15/90	0001	LB	0		<	0.0003		0.0003	-
	0519	04/01/91	0001	LB	0		<	0.001		0.001	-
	0519	08/22/91	0001	LB	0			0.002		0.001	-
	0519	10/11/92	0001	LB	0			0.002		0.001	-
	0521	06/04/90	0001	LB	0			0.0011	c	0.0011	-
	0521	12/08/90	0001	LB	0			0.0034	G	0.0003	-
	0521	04/02/91	0001	LB	0			0.002	G	0.001	-
	0521	08/25/91	0001	LB	0		<	0.001		0.001	-
	0521	10/13/92	0001	LB	0		<	0.001		0.001	-
	0524	12/08/90	0001	LB	0			0.0004		0.0003	-
	0524	04/03/91	0001	LB	0		<	0.001		0.001	-
	0524	08/26/91	0001	LB	0		<	0.001		0.001	-
	0524	10/14/92	0001	LB	0		<	0.001		0.001	-
VANADIUM	0517	06/04/90	0001	LB	0	MG/L		0.02		0.01	-
	0517	12/08/90	0001	LB	0			0.02	G	0.01	-
	0517	04/02/91	0001	LB	0		<	0.01	G	0.01	-
	0517	08/25/91	0001	LB	0		<	0.01		0.01	-
	0517	10/14/92	0001	LB	0		<	0.01		0.01	-
	0519	06/04/90	0001	LB	0			0.01		0.01	-
	0519	12/15/90	0001	LB	0			0.02		0.01	-
	0519	04/01/91	0001	LB	0		<	0.01		0.01	-
	0519	08/22/91	0001	LB	0		<	0.01		0.01	-
	0519	10/11/92	0001	LB	0		<	0.01		0.01	-

FORMATION OF COMPLETION CODE:
LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
• - DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS
G - PH > 9, POSSIBLE GROUT CONTAMINATION
J - ESTIMATED VALUE
c - CHANGED DETECTION LIMIT

201

106 91.1.
6/15/93

TABLE 5. GROUNDWATER QUALITY DATA BY PARAMETER FOR
THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/02/93

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
VANADIUM	0521	06/04/90	0001	LB	0	MG/L		0.01		0.01	-
	0521	12/08/90	0001	LB	0			0.02	G	0.01	-
	0521	04/02/91	0001	LB	0		<	0.01	G	0.01	-
	0521	08/25/91	0001	LB	0		<	0.01		0.01	-
	0521	10/13/92	0001	LB	0		<	0.01		0.01	-
	0524	12/08/90	0001	LB	0			0.03		0.01	-
	0524	04/03/91	0001	LB	0		<	0.01		0.01	-
	0524	08/26/91	0001	LB	0		<	0.01		0.01	-
	0524	10/14/92	0001	LB	0		<	0.01		0.01	-
ZINC	0517	06/04/90	0001	LB	0	MG/L		0.028		0.005	-
	0517	12/08/90	0001	LB	0			0.011	G	0.005	-
	0517	04/02/91	0001	LB	0			0.012	G	0.005	-
	0517	08/25/91	0001	LB	0			0.015		0.005	-
	0517	10/14/92	0001	LB	0		<	0.005		0.005	-
	0519	06/04/90	0001	LB	0			0.028		0.005	-
	0519	12/15/90	0001	LB	0			0.039		0.005	-
	0519	04/01/91	0001	LB	0			0.054		0.005	-
	0519	08/22/91	0001	LB	0			0.008		0.005	-
	0519	10/11/92	0001	LB	0		<	0.005		0.005	-
	0521	06/04/90	0001	LB	0			0.042		0.005	-
	0521	12/08/90	0001	LB	0			0.012	G	0.005	-
	0521	04/02/91	0001	LB	0			0.012	G	0.005	-
	0521	08/25/91	0001	LB	0			0.009		0.005	-
	0521	10/13/92	0001	LB	0		<	0.005		0.005	-
	0524	12/08/90	0001	LB	0		<	0.005		0.005	-
	0524	04/03/91	0001	LB	0			0.020		0.005	-
	0524	08/26/91	0001	LB	0			0.005		0.005	-
	0524	10/14/92	0001	LB	0		<	0.005		0.005	-

FORMATION OF COMPLETION CODE:
LB - LOWER BURRO CANYON

FLOW RELATIONSHIP CODE:
0 - ON-SITE

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
G - PH > 9, POSSIBLE GROUT CONTAMINATION

DATA FILE NAME: M:\DART\SRK02\GWQ10012.DAT

103

TABLE 6. GROUNDWATER QUALITY STATISTICS BY PARAMETER
FOR THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/16/93

PARAMETER NAME					UNITS								
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE		
								MINIMUM	MAXIMUM *				
ALKALINITY					MG/L CaCO3								
19	152.0000	215.0000	185.0000	181.5263	17.5067	0.0964	0.0	171.2767	191.7760	NORMAL			
ALUMINUM					MG/L								
19	** 0.0500	0.3000	0.0600	NA	NA	NA	36.8	** 0.0500	0.2000	NONPARAMETRIC	2		
AMMONIUM					MG/L								
19	** 0.1000	1.2000	** 0.1000	NA	NA	NA	57.9	** 0.1000	0.2000	NONPARAMETRIC	2		
ANTIMONY					MG/L								
19	** 0.0030	0.0070	** 0.0030	NA	NA	NA	68.4	** 0.0030	0.0040	NONPARAMETRIC	2		
ARSENIC					MG/L								
19	** 0.0050	0.0180	0.0050	NA	NA	NA	94.7	** 0.0050	0.0050	NONPARAMETRIC	2		
BARIUM					MG/L								
19	** 0.0100	0.0500	0.0200	NA	NA	NA	42.1	0.0100	0.0500	NONPARAMETRIC	2		
BERYLLIUM					MG/L								
15	** 0.0050	0.0050	** 0.0050	NA	NA	NA	100.0	** 0.0050	0.0050	NONPARAMETRIC	2		
BORON					MG/L								
15	0.0500	0.1200	0.1000	NA	NA	NA	20.0	0.0500	0.1000	NONPARAMETRIC	2		
BROMIDE					MG/L								
12	** 0.1000	0.2500	+ 0.1000	NA	NA	NA	58.3	** 0.1000	0.2500	NONPARAMETRIC	2		
CADMIUM					MG/L								
19	** 0.0005	0.0025	0.0005	NA	NA	NA	94.7	** 0.0005	0.0005	NONPARAMETRIC	2		

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

104
2/16/93
2/16/93

TABLE 6. GROUNDWATER QUALITY STATISTICS BY PARAMETER
FOR THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/16/93

PARAMETER NAME				UNITS	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN						MINIMUM	MAXIMUM *		
CALCIUM				MG/L								
19	0.5000	2.6400	1.7000		1.6447	0.6668	0.4054	0.0	1.2543	2.0351	NORMAL	
CHLORIDE				MG/L								
19	8.0000	64.0000	15.0000		19.7526	14.2827	0.7231	0.0	11.3905	28.1147	NORMAL	
CHROMIUM				MG/L								
19	** 0.0100	** 0.0100	** 0.0100		NA	NA	NA	100.0	** 0.0100	** 0.0100	NONPARAMETRIC	2
COBALT				MG/L								
15	** 0.0300	** 0.0300	** 0.0300		NA	NA	NA	100.0	** 0.0300	** 0.0300	NONPARAMETRIC	2
COPPER				MG/L								
19	** 0.0100	0.0100	** 0.0100		NA	NA	NA	100.0	** 0.0100	0.0100	NONPARAMETRIC	2
CYANIDE				MG/L								
12	** 0.0100	** 0.0100	** 0.0100		NA	NA	NA	100.0	** 0.0100	** 0.0100	NONPARAMETRIC	2
DISSOLVED OXYGEN				MG/L								
4	0.9000	3.6000	+ 1.1500		1.7000	1.2728	0.7487	0.0	-1.1899	4.5899	NORMAL	
FLUORIDE				MG/L								
19	0.3000	0.9000	0.6000		0.5632	0.1383	0.2456	0.0	0.4822	0.6441	NORMAL	
GROSS ALPHA				PCI/L								
16	** 1.0000	8.1000	** 1.0000		NA	NA	NA	6.3	** 1.0000	4.3000	NONPARAMETRIC	9
GROSS BETA				PCI/L								
16	** 0.5000	6.1000	+ 1.5500		NA	NA	NA	0.0	** 0.5000	2.6000	NONPARAMETRIC	9

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

1052.
6/16/93

TABLE 6. GROUNDWATER QUALITY STATISTICS BY PARAMETER
FOR THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/16/93

PARAMETER NAME					UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL MINIMUM MAXIMUM *		DISTRIBUTION TYPE	FOOT NOTE			
# OF SAMP	MINIMUM		MAXIMUM	MEDIAN		MEAN										
IRON					MG/L											
19	**	0.0300	0.2300	**	0.0300	NA	NA	NA	68.4	**	0.0300	0.0500	NONPARAMETRIC	2		
LEAD					MG/L											
19	**	0.0030	0.0100	**	0.0030	NA	NA	NA	100.0	**	0.0030	0.0050	NONPARAMETRIC	2		
LEAD-210					PCI/L											
12	**	1.1000	**	1.1000	**	1.1000	NA	NA	NA	25.0	**	1.1000	**	1.1000	NONPARAMETRIC	2
MAGNESIUM					MG/L											
19		0.0500	0.6000		0.2000	NA	NA	NA	15.8		0.1000	0.4500	NONPARAMETRIC	2		
MANGANESE					MG/L											
19	**	0.0100	0.0200	**	0.0100	NA	NA	NA	89.5	**	0.0100	**	0.0100	NONPARAMETRIC	2	
MERCURY					MG/L											
15	**	0.0002	**	0.0002	**	0.0002	NA	NA	NA	100.0	**	0.0002	**	0.0002	NONPARAMETRIC	2
MOLYBDENUM					MG/L											
19	**	0.0100	0.0400	**	0.0100	NA	NA	NA	63.2	**	0.0100	0.0200	NONPARAMETRIC	2		
NET GROSS ALPHA ***					PCI/L											
16		-5.4900	6.7600	+	0.0300	NA	NA	NA	0.0		-0.3400	3.2600	NONPARAMETRIC	9		
NICKEL					MG/L											
19	**	0.0400	**	0.0400	**	0.0400	NA	NA	NA	100.0	**	0.0400	**	0.0400	NONPARAMETRIC	2

*** NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

6/16/93
106 DJ

TABLE 6. GROUNDWATER QUALITY STATISTICS BY PARAMETER
FOR THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/16/93

PARAMETER NAME				UNITS						STATISTICAL RANGE 98% CONFIDENCE INTERVAL	DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS			MINIMUM MAXIMUM *		
NITRATE				MG/L								
15	0.5000	19.5000	1.6000	NA	NA	NA	46.7		0.5000	5.3000	NONPARAMETRIC	2
NITRITE AND NITRATE				MG/L								
11	0.1900	4.3700	0.5000	NA	NA	NA	27.3		0.2000	2.6200	NONPARAMETRIC	2
PH				SU								
20	8.5700	9.5500	+ 9.0599	NA	NA	NA	0.0		NA	NA	UNKNOWN	
PHOSPHATE				MG/L								
15	0.5000	0.9000	0.7000	0.6600	0.1056	0.1599	0.0		0.5885	0.7315	NORMAL	
POLONIUM-210				PCI/L								
12	** 0.1000	0.9000	+ 0.1000	NA	NA	NA	8.3	**	0.1000	0.7000	NONPARAMETRIC	9
POTASSIUM				MG/L								
19	0.2900	13.4000	0.9200	0.9846	2.3553	NA	0.0		0.5963	1.6259	LOGNORMAL	7,8
RADIUM-226				PCI/L								
19	** 0.1000	0.4000	** 0.1000	NA	NA	NA	21.1	**	0.1000	0.2000	NONPARAMETRIC	2
RADIUM-226 + RADIUM-228				PCI/L								
19	0.0000	1.7000	0.4500	NA	NA	NA	0.0		0.0000	1.1000	NONPARAMETRIC	9
RADIUM-228				PCI/L								
19	** 1.0000	1.5000	** 1.0000	NA	NA	NA	0.0	**	1.0000	1.1000	NONPARAMETRIC	9

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

1) A minimum of 4 samples must be available for the statistical analysis.

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

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TABLE 6. GROUNDWATER QUALITY STATISTICS BY PARAMETER
FOR THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 06/16/93

PARAMETER NAME					UNITS								
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE	
									MINIMUM	MAXIMUM *			
REDOX POTENTIAL					mVOLTS								
7	261.2000	402.0000	383.6000	349.3571		61.0432	0.1747	0.0	276.8413	421.8730	NORMAL		
SELENIUM					MG/L								
19	** 0.0050	** 0.0050	** 0.0050	NA		NA	NA	100.0	** 0.0050	** 0.0050	NONPARAMETRIC	2	
SILICA - SiO2					MG/L								
19	8.3000	11.2000	10.0000	9.8684		0.7986	0.0809	0.0	9.4008	10.3360	NORMAL		
SILVER					MG/L								
15	** 0.0100	** 0.0100	** 0.0100	NA		NA	NA	100.0	** 0.0100	** 0.0100	NONPARAMETRIC	2	
SODIUM					MG/L								
19	108.0000	182.0000	133.0000	134.1579		19.2246	0.1433	0.0	122.9025	145.4133	NORMAL		
SPECIFIC CONDUCTANCE					UMHO/CM								
17	380.0000	790.0000	501.0000	522.7059		112.5537	0.2153	0.0	452.1944	593.2174	NORMAL		
STRONTIUM					MG/L								
19	0.0300	0.2200	0.1000	0.0958		0.0514	0.5361	10.5	0.0657	0.1259	NORMAL		
SULFATE					MG/L								
14	62.0000	95.6000	+ 79.5000	77.8857		11.5002	0.1477	0.0	69.7408	86.0307	NORMAL		
SULFIDE					MG/L								
16	** 0.1000	3.2600	+ 0.3500	NA		NA	NA	31.3	** 0.1000	0.8000	NONPARAMETRIC	2	
TEMPERATURE					C - DEGREE								
20	13.5000	22.3000	+ 16.5000	16.5650		2.2728	0.1372	0.0	15.2747	17.8553	NORMAL		

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

108 J
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TABLE 6. GROUNDWATER QUALITY STATISTICS BY PARAMETER
FOR THE LOWER BURRO CANYON SANDSTONE UNIT
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
06/04/90 TO 10/14/92
REPORT DATE: 03/07/94

PARAMETER NAME					UNITS		STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 98% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MEAN						MINIMUM	MAXIMUM *		
THALLIUM					MG/L								
20	** 0.0050	0.0050	+ 0.0050	NA		NA	NA	100.0		0.0050	0.0050	NONPARAMETRIC	2
THORIUM-230					PCI/L								
12	** 1.0000	** 1.0000	** 1.0000	NA		NA	NA	0.0	** 1.0000	** 1.0000		NONPARAMETRIC	9
TIN					MG/L								
20	** 0.0050	** 0.0050	** 0.0050	NA		NA	NA	100.0	** 0.0050	** 0.0050		NONPARAMETRIC	2
TOTAL DISSOLVED SOLIDS					MG/L								
20	256.0000	485.0000	+ 344.0000	347.6500		63.8941	0.1838	0.0		311.3749	383.9251	NORMAL	
TOTAL KJELDAHL NITROGEN					MG/L								
12	** 1.0000	1.0000	** 1.0000	NA		NA	NA	75.0	** 1.0000	1.0000		NONPARAMETRIC	2
TOTAL ORGANIC CARBON					MG/L								
16	** 1.0000	47.0000	+ 3.0000	3.8817		4.8310	NA	12.5		1.3933	10.8142	LOGNORMAL	7,8
URANIUM					MG/L								
20	** 0.0003	0.0080	+ 0.0005	NA		NA	NA	50.0		0.0005	0.0020	NONPARAMETRIC	2
VANADIUM					MG/L								
20	** 0.0100	0.0300	** 0.0100	NA		NA	NA	65.0	** 0.0100	0.0200		NONPARAMETRIC	2
ZINC					MG/L								
20	** 0.0050	0.0540	+ 0.0120	NA		NA	NA	25.0	** 0.0050	0.0280		NONPARAMETRIC	2

** The reported value is the minimum detection limit of the data set

+ The sample size is even, so the median value is the arithmetic average of the two middle values

* The statistical maximum is the 99 percent one sided confidence interval, $\alpha = 0.01$

2) The nonparametric distribution was used because the nondetected values comprise more than 15% of the samples.

7) The lognormal distribution was used because the data failed the normal distribution test.

8) The mean is geometric. The standard deviation is the value to divide or multiply with the geometric mean.

9) The nonparametric distribution was used because the data failed the normal distribution test and includes values ≤ 0 .

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Table 7 Maximum concentration of regulated constituents
for groundwater protection^a

Constituents with MCLs ^b	mg/l	Constituents with MCLs ^b	mg/l
Arsenic (As)	0.05	Carbon tetrachloride	0.005
Barium (Ba)	1.0	p- Dichlorobenzene (benzene,1,4 di)	0.075
Cadmium (Cd)	0.01	1,1- Dichloroethylene (ethene,1,1 di-)	0.007
Chromium (Cr)	0.05	Endrin	0.0002
Lead (Pb)	0.05	Ethylene dichloride	0.005
Mercury (Hg)	0.002	Lindane	0.004
Molybdenum (Mo)	0.1	Methoxychlor	0.1
Nitrate (NO ₃)	44.0	Methylchloroform	0.2
Selenium (Se)	0.01	Toxaphene	0.005
Silver (Ag)	0.05	2,4-D	0.1
Combined radium (Ra-226 and - 228)	5.0 ^c	2,4,5-TP	0.01
Combined uranium (U-234 and -238)	30.0 ^c	Trichlorethylene	0.005
Net gross alpha (excluding radon and uranium)	15.0 ^c	Vinyl chloride	0.002

Table 7 Maximum concentration of regulated constituents for groundwater protection^a (Concluded)

Constituents without MCLs	Constituents without MCLs
Antimony (Sb) and compounds, NOS ^d	Nickel (Ni) and compounds, NOS ^d
Aluminum phosphide ^e	Strontium sulfide ^e
Beryllium (Be) and compounds, NOS ^d	Sulfide (S)
Calcium chromate ^e	Thallium (Th) and compounds, NOS ^d
Carbon disulfide ^e	Tin (Sn)
Carbon oxyfluoride ^e	Vanadium (V)
Copper (Cu)	Vanadic acid, ammonium salt ^e
Cobalt (Co)	Vanadium pentoxide ^e
Cyanides (CN), NOS ^{d,e,f}	Zinc (Zn)
	Zinc phosphide ^e

^aSummarized from draft final EPA groundwater standards, April 1989, 40 CFR 192.02.

^bMaximum concentration limits. Concentrations of these constituents shall not exceed background or the MCL limits, whichever is higher.

^cUnits are pCi/l.

^dNot otherwise specified. Members of compounds not specified in Appendix I.

^eAdded when Appendix I replaced Appendix IX of 40 CFR 264.

^fSoluble salts and complexes.

112 D.A.
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Table 8.1 Summary of selected constituents in background groundwater quality for the upper sandstone unit Burro Canyon disposal site^a

Constituents with MCLs			
Parameter	MCL	Background ^b	
		Average	Stat. Max.
Arsenic	0.05	0.01 ^c	0.01 ^c
Barium	1.0	0.1 ^c	0.10 ^c
Cadmium	0.01	0.001 ^c	0.001 ^c
Chromium	0.05	0.01 ^c	0.01 ^c
Net gross alpha ^f	15.0	0.845 ^e	6.96 ^e
Lead	0.05	0.01 ^c	0.01 ^c
Mercury	0.002	0.0002 ^c	0.0002 ^c
Molybdenum	0.1	0.01 ^c	0.02 ^c
Nitrate	44.0	1.60 ^e	4.4 ^e
Radium-226,-228 ^f	5.0	0.95 ^e	1.80 ^e
Selenium	0.01	0.005 ^c	0.012 ^e
Silver	0.05	0.01 ^d	0.01 ^c
Uranium	0.044	0.003 ^c	0.019 ^e

^aAll units are mg/l unless otherwise noted.

^bUppermost aquifer.

^cLognormal distribution, mean is geometric.

^dNormal distribution, mean is arithmetic.

^eNonparametric distribution

^fUnits are pCi/l.

^gStatistical values are below laboratory detection limits in Table 8.1 of the Technical Approach Document (DOE, 1989).

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Table 8.1 Summary of selected constituents in background groundwater quality for the upper sandstone unit at the Burro Canyon disposal site^a (Concluded)

Constituents without MCLs		
Parameter	Background ^b	
	Average	Stat. Max.
Antimony	0.003 ^c	0.003 ^c
Beryllium	0.01 ^c	0.01 ^c
Cobalt	0.05 ^c	0.05 ^c
Copper	0.02 ^c	0.02 ^c
Cyanide	0.01 ^c	0.01 ^c
Nickel	0.04 ^c	0.04 ^c
Sulfide	0.4 ^c	1.0 ^c
Thallium	0.01 ^c	0.01 ^c
Tin	0.005 ^c	0.005 ^c
Vanadium	0.01 ^c	0.02 ^c
Zinc	0.005 ^c	0.010 ^c

^aAll units are mg/l unless otherwise noted.

^bUppermost aquifer.

^cLognormal distribution, mean is geometric.

^dNormal distribution, mean is arithmetic.

^eNonparametric distribution

^fUnits are pCi/l.

^gStatistical values are below laboratory detection limits in Table 8.1 of the Technical Approach Document (DOE, 1989).

Table 8.2 Summary of selected constituents in background groundwater quality for the middle sandstone unit Burro Canyon disposal site^a

114 J.L.
6/16/93
K.M.
6/15/93

Constituents with MCLs			
Parameter	MCL	Background ^b	
		Average	Stat. Max.
Arsenic	0.05	0.01 ^c	0.01 ^c
Barium	1.0	0.1 ^c	0.10 ^c
Cadmium	0.01	0.001 ^c	0.001 ^c
Chromium	0.05	0.01 ^c	0.01 ^c
Net gross alpha ^f	15.0	0.055 ^c	3.26 ^c
Lead	0.05	0.01 ^c	0.01 ^c
Mercury	0.002	0.0002 ^c	0.0002 ^c
Molybdenum	0.1	0.01 ^c	0.01
Nitrate	44.0	1.50 ^c	6.20 ^c
Radium-226,-228 ^f	5.0	1.80 ^c	2.75 ^c
Selenium	0.01	0.005 ^c	0.005 ^c
Silver	0.05	0.01 ^d	0.01 ^c
Uranium	0.044	0.003 ^c	0.003 ^c

^aAll units are mg/l unless otherwise noted.

^bMiddle aquifer.

^cLognormal distribution, mean is geometric.

^dNormal distribution, mean is arithmetic.

^eNonparametric distribution

^fUnits are pCi/l.

^gStatistical values are below laboratory detection limits in Table 8.1 of the Technical Approach Document (DOE, 1989).

115 A.
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6/15/93

Table 8.2 Summary of selected constituents in background groundwater quality for the middle sandstone unit at the Burro Canyon disposal site^a (Concluded)

Constituents without MCLs		
Parameter	Background ^b	
	Average	Stat. Max.
Antimony	0.003 ^d	0.003 ^d
Beryllium	0.01 ^d	0.01 ^d
Cobalt	0.05 ^d	0.05 ^d
Copper	0.02 ^d	0.02 ^d
Cyanide	0.01 ^d	0.01 ^d
Nickel	0.04 ^d	0.04 ^d
Sulfide	0.30 ^e	6.0 ^e
Thallium	0.01 ^d	0.01 ^d
Tin	0.005 ^d	0.005 ^d
Vanadium	0.01 ^d	0.02 ^e
Zinc	0.027 ^d	0.053 ^e

^aAll units are mg/l unless otherwise noted.

^bMiddle aquifer.

^cLognormal distribution, mean is geometric.

^dNormal distribution, mean is arithmetic.

^eNonparametric distribution

^fUnits are pCi/l.

^gStatistical values are below laboratory detection limits in Table 8.1 of the Technical Approach Document (DOE, 1989).

116 D.J.
6/16/93
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6/15/93

Table 8.3 - Summary of selected constituents in background groundwater quality for the lower sandstone unit Burro Canyon disposal site^a

Constituents with MCLs			
Parameter	MCL	Background ^b	
		Average	Stat. Max.
Arsenic	0.05	0.01 ^c	0.01 ^c
Barium	1.0	0.10 ^c	0.10 ^c
Cadmium	0.01	0.001 ^c	0.001 ^c
Chromium	0.05	0.01 ^c	0.01 ^c
Net gross alpha ^f	15.0	0.030 ^c	3.26 ^c
Lead	0.05	0.01 ^c	0.01 ^c
Mercury	0.002	0.0002 ^c	0.0002 ^c
Molybdenum	0.1	0.01 ^c	0.02 ^c
Nitrate	44.0	1.60 ^c	5.3 ^c
Radium-226,-228 ^f	5.0	0.45 ^c	1.10 ^c
Selenium	0.01	0.005 ^c	0.005 ^c
Silver	0.05	0.01 ^d	0.01 ^c
Uranium	0.044	0.003 ^c	0.003 ^c

^aAll units are mg/l unless otherwise noted.

^bLowermost aquifer.

^cLognormal distribution, mean is geometric.

^dNormal distribution, mean is arithmetic.

^eNonparametric distribution

^fUnits are pCi/l.

^gStatistical values are below laboratory detection limits in Table 8.1 of the Technical Approach Document (DOE, 1989).

117 J.R.

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Table 8.3 Summary of selected constituents in background groundwater quality for the lower sandstone unit at the Burro Canyon disposal site^a (Concluded)

Constituents without MCLs		
Parameter	Background ^b	
	Average	Stat. Max.
Antimony	0.003 ^c	0.004 ^c
Beryllium	0.01 ^c	0.01 ^c
Cobalt	0.05 ^c	0.05 ^c
Copper	0.02 ^c	0.02 ^c
Cyanide	0.01 ^c	0.01 ^c
Nickel	0.04 ^c	0.04 ^c
Sulfide	0.35 ^c	0.08 ^c
Thallium	0.01 ^c	0.01 ^c
Tin	0.005 ^c	0.005 ^c
Vanadium	0.01 ^c	0.02 ^c
Zinc	0.012 ^c	0.028 ^c

^aAll units are mg/l unless otherwise noted.

^bLowermost aquifer.

^cLognormal distribution, mean is geometric.

^dNormal distribution, mean is arithmetic.

^eNonparametric distribution

^fUnits are pCi/l.

^gStatistical values are below laboratory detection limits in Table 8.1 of the Technical Approach Document (DOE, 1989).

JACOBS ENGINEERING GROUP INC.

ALBUQUERQUE OPERATIONS

CALCULATION COVER SHEETCALC NO. SRK05934C000 DISCIPLINE HYDRO NO. OF SHEETS 20 E

PROJECT:

UMTRA

SITE:

Borro Canyon Disposal Site, Slick Rock, Colorado

FEATURE:

Calculation of average hydraulic gradients and average linear groundwater velocities in the upper, middle, and lower sandstone units of the Borro Canyon Formation.

SOURCES OF DATA:

1) Water level data from 5/5/90, 6/1/90, and 9/12/90.

2) Effective porosity data from Freeze & Cherry, 1979

3) Average hydraulic conductivity data from "Technical Summary of Geological, Hydrological, and Engineering Studies at the Uranium Mill Tailings Sites, Slick Rock, Co."

SOURCES OF FORMULAE & REFERENCES:

Darcy's Law

PRELIMINARY CALC. ☒FINAL CALC. ☐

SUPERSEDES CALC. NO. _____

CC		Paul Clement	5/6/93	ALBUQUERQUE	5/20/93		
REV. NO.	REVISION	CALCULATION BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE

PHC 5/6/90
KM 5/20/90

WATER LEVEL ANALYSES BURRO CANYON DISPOSAL SITE

PURPOSE

To estimate the average hydraulic gradients and average linear groundwater velocities in the upper, middle, and lower sandstone units of the Burro Canyon Formation at the Burro Canyon Disposal Site.

METHOD AND PROCEDURE

Potentiometric surface maps were made for two different sets of water level data (5/5/90 and 9/12/90) each for the upper, middle, and lower sandstone units of the Burro Canyon Formation. Potentiometric surface maps for 6/1/90 data already existed. Hydraulic gradients were calculated from the potentiometric surface maps and were averaged for each sandstone unit. Effective porosities for the sandstone units, were taken from the literature, and average hydraulic conductivities were taken from Burro Canyon Formation pump tests, slug tests, and bailer recovery tests. Darcy's Law was used to calculate the average linear groundwater velocities for the three sandstone units.

ASSUMPTIONS

- 1) The three sandstone units behave as homogenous, isotropic aquifers of infinite extent.
- 2) Sandstone effective porosity data, from Freeze and Cherry, 1979 are applicable to the Burro Canyon sandstone units.

DATA SOURCES

1) Water level field data for 5/5/90 (included in Attachment A) and potentiometric maps for 6/1/90 data (included in Attachment B) are from Technical Summary of Geological, Hydrological, and Engineering Studies at the Uranium Mill Tailing Sites, Slick Rock, Colorado. Water level data for 9/12/90 (included as Attachment A) are from the Slick Rock UMTRA Project File.

2) Effective porosity data for sandstone is from Freeze and Cherry, 1979.

3) Average hydraulic conductivity field data is from Burro Canyon Formation pump tests, slug tests, and bailer recovery tests performed in September 1990 (see notes to Kathy Monks, May 19, 1993 in Slick Rock UMTRA Project File).

CALCULATIONS AND ANALYSIS

The potentiometric maps for the upper, middle, and lower sandstone units for 5/5/90, 6/1/90, and 9/12/90 data are included as Attachment B. Hydraulic gradients were calculated for each sandstone unit for each data set, from the potentiometric maps, and then were averaged. Hydraulic gradient calculations are included as Attachment C.

Average linear groundwater flow velocities (also included in Attachment C) were calculated for each sandstone unit by using Darcy's Law as follows:

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K.M. 5/20/91
P.H.C. 5/6/91

$v = Ki/n$ where K = average hydraulic conductivity
i = hydraulic gradient
n = estimated effective porosity

The average hydraulic conductivities and estimated effective porosities (originally taken from Freeze and Cherry, 1979) were taken from the Slick Rock technical summary.

RESULTS

The calculated hydraulic gradients are as follows:

	5/5/90	6/1/90	9/12/90	Average
Upper Sandstone	.041 SE ✓	.035 SE ✓	.038 ^{q_i} SE	.038 SE
Middle Sandstone	.015 SW-SE ✓	.015 SE	.015 SW-SE ✓	.015 SW-SE
Lower Sandstone	.059 S ✓	.054 S	.051 ^{T_i} S	.055 ^{T_i} S

The calculated average linear groundwater velocities in feet per year are as follows:

Upper Sandstone	5.5	$\frac{(.04 \text{ ft/day})(.035)}{0.1} = 0.014 \text{ ft/day} \times \frac{365 \text{ days}}{1 \text{ yr}} = 5.1$ ✓
Middle Sandstone	2.6	$\frac{(.015 \text{ ft/day})(.015)}{0.2} = 0.001 \text{ ft/day} \times 365 = 0.4$ ✓
Lower Sandstone	1.0	$\frac{(.059 \text{ ft/day})(.051)}{0.1} = 0.03 \text{ ft/day} \times 365 = 11$ ✓

CONCLUSIONS

The three potentiometric surface maps for each sandstone unit are reasonably consistent, thus the hydraulic gradient averages and calculated average flow velocities should be as representative of the sandstone units as the hydraulic conductivity and assumed effective porosity data allow.

REFERENCES

UMTRA-DOE/AL, 1990. Technical Summary of Geological, Hydrological, and Engineering Studies at the Uranium Mill Tailings Sites, Slick Rock, Colorado, UMTRA-DOE/AL 050125.0000, December.

Freeze, R. A. & J. A. Cherry, 1979. Groundwater.

KM 5/20/91

PHC. 5/6/91

ATTACHMENT A

9/12/90 WATER LEVEL DATA

STATIC GROUNDWATER LEVELS
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
REPORT DATE: 05/21/93

LOCATION ID	NORTH COORDINATE (FT)	EAST COORDINATE (FT)	FORMATION OF COMPLETION	FLOW CODE	CASING ELEVATION (FT MSL)	GROUND ELEVATION (FT MSL)	LOG DATE	LOG TIME	DEPTH FROM TOP OF CASING (FT)	DEPTH FROM GROUND (FT)	GROUNDWATER ELEVATION (FT MSL)
0516	19099.00	21931.00	MB	O	5864.36	5862.4	02/12/90	15:05	215.	213.04	5649.36
							04/13/90	08:30	125.75	123.79	5738.61
							05/05/90	09:05	124.9	122.94	5739.46
							12/02/90	10:10	127.01	125.05	5737.35
							12/07/90	10:00	127.73	125.77	5736.63
							04/02/91	15:21	127.42	125.46	5736.94
							08/25/91	09:00	127.64	125.68	5736.72
							10/14/92	10:52	127.71	125.75	5736.65
0517	19217.00	22547.00	LB	O	5871.80	5870.2	04/13/90	08:40	102.6	101.00	5769.20
							05/05/90	09:10	102.8	101.20	5769.00
							12/02/90	10:54	103.11	101.51	5768.69
							12/07/90	14:30	103.15	101.55	5768.65
							04/02/91	16:09	103.52	101.92	5768.28
							08/25/91	10:30	103.09	101.49	5768.71
							10/14/92	15:11	102.64	101.04	5769.16
0518	19959.00	21745.00	UB	O	5898.03	5897.0	03/31/90	10:00	103.5	102.47	5794.53
							04/03/90	08:00	102.5	101.47	5795.53
							04/13/90	08:50	102.1	101.07	5795.93
							05/05/90	09:20	101.2	100.17	5796.83
							12/02/90	10:24	102.70	101.67	5795.33
							12/12/90	15:10	102.25	101.22	5795.78
							03/31/91	13:05	103.55	102.52	5794.48
							08/23/91	14:25	102.78	101.75	5795.25
							10/11/92	10:34	102.80	101.77	5795.23
0519	19960.00	21758.00	LB	O	5898.12	5897.1	03/31/90	07:50	160.	158.98	5738.12
							04/01/90	10:50	112.	110.98	5786.12
							04/03/90	08:05	91.	89.98	5807.12
							04/13/90	09:00	84.75	83.73	5813.37
							05/05/90	09:25	82.3	81.28	5815.82
							12/02/90	10:27	81.91	80.89	5816.21
							12/12/90	11:00	81.75	80.73	5816.37
							03/31/91	11:15	82.55	81.53	5815.57
							08/22/91	09:15	81.95	80.93	5816.17
							10/11/92	08:58	80.63	79.61	5817.49
0520	19974.00	21748.00	MB	O	5899.49	5897.8	04/03/90	08:10	151.	149.31	5748.49
							04/13/90	09:10	150.2	148.51	5749.29
							05/05/90	09:30	149.9	148.21	5749.59

FORMATION OF COMPLETION CODE:
MB - MIDDLE BURRO CANYON
LB - LOWER BURRO CANYON
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
O - ON-SITE

4
KMS/2643
PAC 5/6/93

STATIC GROUNDWATER LEVELS
 SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
 REPORT DATE: 05/21/93

LOCATION ID	NORTH COORDINATE (FT)	EAST COORDINATE (FT)	FORMATION OF COMPLETION	FLOW CODE	CASING ELEVATION (FT MSL)	GROUND ELEVATION (FT MSL)	LOG DATE	LOG TIME	DEPTH FROM TOP OF CASING (FT)	DEPTH FROM GROUND (FT)	GROUNDWATER ELEVATION (FT MSL)
0520	19974.00	21748.00	MB	0	5899.49	5897.8	12/02/90	10:22	151.15	149.46	5748.34
							12/11/90	13:00	150.75	149.06	5748.74
							03/31/91	10:41	151.75	150.06	5747.74
							08/22/91	10:47	151.85	150.16	5747.64
							10/11/92	11:42	151.26	149.57	5748.23
0521	19621.00	22459.00	LB	0	5876.05	5875.0	04/04/90	11:15	160.	158.95	5716.05
							04/10/90	16:35	80.5	79.45	5795.55
							04/13/90	09:20	89.5	88.45	5786.55
							05/05/90	09:35	82.8	81.75	5793.25
							12/02/90	10:46	76.94	75.89	5799.11
							12/05/90	09:30	77.02	75.97	5799.03
							03/31/91	13:58	77.46	76.41	5798.59
							08/25/91	14:40	76.74	75.69	5799.31
							10/12/92	11:16	76.39	75.34	5799.66
0522	19670.00	22470.00	MB	0	5876.50	5874.6	04/13/90	09:30	135.0	133.10	5741.50
							05/05/90	09:40	134.8	132.90	5741.70
							12/02/90	10:42	136.19	134.29	5740.31
							12/05/90	14:20	136.26	134.36	5740.24
							03/31/91	15:00	136.81	134.91	5739.69
							08/22/91	17:20	137.76	135.86	5738.74
0523	19620.00	22476.00	UB	0	5876.39	5875.0	10/12/92	08:46	136.36	134.46	5740.14
							04/13/90	09:40	111.25	109.86	5765.14
							05/05/90	09:45	109.6	108.21	5766.79
							12/02/90	10:40	108.25	106.86	5768.14
							12/11/90	14:05	107.78	106.39	5768.61
							03/31/91	13:03	108.53	107.14	5767.86
0524	19012.06	21702.85	LB	0	5850.72	5848.9	08/23/91	12:15	107.94	106.55	5768.45
							10/12/92	12:39	108.19	106.80	5768.20
							04/16/90	09:21	113.4	111.58	5737.32
							04/18/90	09:15	97.	95.18	5753.72
							05/05/90	09:48	89.7	87.88	5761.02
							12/02/90	09:55	82.58	80.76	5768.14
0525	19023.44	21712.23	MB	0	5850.89	5849.1	12/06/90	09:00	82.62	80.80	5768.10
							03/30/91	13:47	83.73	81.91	5766.99
							08/26/91	10:10	83.53	81.71	5767.19
							10/13/92	15:23	82.90	81.08	5767.82
0525	19023.44	21712.23	MB	0	5850.89	5849.1	04/16/90	09:28	115.0	113.21	5735.89

FORMATION OF COMPLETION CODE:
 MB - MIDDLE BURRO CANYON
 LB - LOWER BURRO CANYON
 UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:
 0 - ON-SITE

RM 5/24/93
 PWC 5/6/93
 5

STATIC GROUNDWATER LEVELS
SITE: SRK02 BORROW SITE 1 (BURRO CANYON)
REPORT DATE: 05/21/93

LOCATION ID	NORTH COORDINATE (FT)	EAST COORDINATE (FT)	FORMATION OF COMPLETION	FLOW CODE	CASING ELEVATION (FT MSL)	GROUND ELEVATION (FT MSL)	LOG DATE	LOG TIME	DEPTH FROM TOP OF CASING (FT)	DEPTH FROM GROUND (FT)	GROUNDWATER ELEVATION (FT MSL)
0525	19023.44	21712.23	MB	0	5850.89	5849.1	04/18/90	09:30	115.1	113.31	5735.79
							05/05/90	09:50	112.7	110.91	5738.19
							12/02/90	09:53	114.47	112.68	5736.42
							12/06/90	12:00	114.72	112.93	5736.17
							04/02/91	13:43	115.10	113.31	5735.79
							08/26/91	12:35	115.08	113.29	5735.81
							10/14/92	08:30	114.55	112.76	5736.34
0526	18859.00	22153.00	MB	0	5835.42	5833.8	04/18/90	08:00	98.0	96.38	5737.42
							04/26/90	16:30	101.25	99.63	5734.17
							05/05/90	09:55	100.7	99.08	5734.72
							12/02/90	09:40	101.85	100.23	5733.57
							12/11/90	10:00	101.73	100.11	5733.69
							03/30/91	15:03	102.43	100.81	5732.99
							08/21/91	10:10	102.58	100.96	5732.84
0527	18873.00	22141.00	UB	0	5836.51	5834.6	10/14/92	12:32	101.65	100.03	5733.77
							04/25/90	08:00	DRY	DRY	-
							04/26/90	16:40	DRY	DRY	-
							05/05/90	09:57	DRY	DRY	-
							12/02/90	09:37	77.22	75.31	5759.29
							12/13/90	13:00	76.91	75.00	5759.60
							03/30/91	15:58	77.62	75.71	5758.89
0528	20137.00	22121.00	MB	0	5898.37	5896.8	08/23/91	15:30	77.39	75.48	5759.12
							10/12/92	15:22	77.15	75.24	5759.36
							04/27/90	09:20	146.3	144.73	5752.07
							05/05/90	10:00	144.5	142.93	5753.87
							12/02/90	11:04	145.64	144.07	5752.73
							12/13/90	09:30	145.45	143.88	5752.92
							03/31/91	16:57	146.25	144.68	5752.12
0529	20126.00	22114.00	UB	0	5898.51	5896.6	08/21/91	15:00	145.82	144.25	5752.55
							10/13/92	12:13	146.0	144.43	5752.37
							04/27/90	09:10	114.4	112.49	5784.11
							05/05/90	10:05	106.1	104.19	5792.41
							12/02/90	11:08	106.39	104.48	5792.12
							12/06/90	15:15	106.65	104.74	5791.86
							03/31/91	16:10	107.15	105.24	5791.36
							08/23/91	10:45	106.78	104.87	5791.73
							10/12/92	13:59	106.99	105.08	5791.52

FORMATION OF COMPLETION CODE:

MB - MIDDLE BURRO CANYON

UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:

0 - ON-SITE

DATA FILE: M:\DART\SRK02\GWL10003.DAT

FIELDS DISPLAYED WITH A DASH INDICATE THE DATA IS UNAVAILABLE

4
L1-1 5/20/93
PAC 5/6/93

KM 5/20/93

PHL 5/6/93

BURRO CANYON FORMATION WATER LEVEL DATA - 9/12/90

Well #	Depth From TOC (ft)	TOC Elevation (ft)	Water Level Elevation (ft)	Formation
517	-	5871.80	-	lower
519	81.53	5898.12	5816.59	lower
521	77.61	5876.05	5798.44	lower
524	83.48	5850.72	5767.24	lower
522	136.50	5876.50	5740.00	middle
516	126.44	5864.36	5737.92	middle
520	152.31	5899.49	5747.18	middle
525	114.27	5850.89	5736.62	middle
526	101.43	5835.42	5733.99	middle
528	145.22	5898.37	5753.15	middle
518	102.04	5898.03	5795.99	upper
523	108.07	5876.39	5768.32	upper
527	76.85	5836.51	5759.66	upper
529	105.94	5898.51	5792.57	upper

E
K115/20 FB
PHC. 5/4/93

ATTACHMENT B

POTENTIOMETRIC MAPS

PHC-96

NOTES:

LEGEND

- UPPER SANDSTONE UNIT MONITOR WELL
- MIDDLE SANDSTONE UNIT MONITOR WELL
- ◐ LOWER SANDSTONE UNIT MONITOR WELL

200 0 200
 SCALE IN FEET

FIGURE 2
POTENTIOMETRIC SURFACE (JUNE 1, 1990)
IN THE UPPER SANDSTONE UNIT OF THE BURRO CANYON FORMATION
AT THE BURRO CANYON DISPOSAL SITE, SLICK ROCK, COLORADO

NOTES:

11/12/13
PHC 9/1/13

REFERENCE DRAWINGS:

LEGEND:

- BORE HOLES
- MONITORING WELLS
- ⊕ TEST PITS

PRELIMINARY REVIEW

U.S. DEPARTMENT OF ENERGY	ONLY DOCKET	U.S. DEPARTMENT OF ENERGY
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U.S. DEPARTMENT OF ENERGY	
SUCK ROCK SITE	
SUCK ROCK COLORADO	
BURRO CANYON	
BORINGS AND TEST PITS	
LOCATION PLAN	
PROJECT NO.	DE-AC04-83AL18796
PROJECT NAME	MORRISON KALDEN CORPORATION
PROJECT LOCATION	UTAH PROJECT
PROJECT DATE	SRK-DS-10-0338

Upper Sandstone Unit - Burro Canyon
9/12/90 Data

12
X07-724513
PHE. 5/4/93

LEGEND:

**BORE HOLES
MONITORING WELLS
TEST PITS**

PRELIMINARY REVIEW

ADDRESS A B	ADDRESS 2A-B	ADDRESS
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A vertical scale bar is located on the right side of the map. It is labeled 'SCALE' at the bottom and 'FEET' at the top. The scale has markings at 0, 100, and 200 feet.

U.S. DEPARTMENT OF ENERGY
ALBUQUERQUE, NEW MEXICO

**SLICK ROCK SITE
SLICK ROCK, COLORADO
BURRO CANYON**

BORINGS AND TEST PITS LOCATION PLAN

MORRISON KNUDSEN CORPORATION
CONSTRUCTION • ENERGY • SERVICES

DE-AC04-83AL18796

[illegible]

SRK-DS-10-0338

SRK-DS-10-0338

e-Sandstone Unit: Burr Canyon
5/5/90 Data

T
12
15/2
PHL 5/6/

FIGURE 3
POTENTIOMETRIC SURFACE (JUNE 1, 1990)
IN THE MIDDLE SANDSTONE UNIT OF THE BURRO CANYON FORMATION
AT THE BURRO CANYON DISPOSAL SITE, SLICK ROCK, COLORADO

SRK-DS-10-0358		MORRISON WADSWORTH CORPORATION		DATE		NO.		BY		CHECKED		APPROVED	
DE-ACO4-83AL18796		ULTRA PROJECT		DATE		NO.		BY		CHECKED		APPROVED	
LOCATION PLAN		BORINGS AND TEST PITS		DATE		NO.		BY		CHECKED		APPROVED	
SLICK ROCK SITE		BURRO CANYON		DATE		NO.		BY		CHECKED		APPROVED	
ALBUQUERQUE, NEW MEXICO		U.S. DEPARTMENT OF ENERGY		DATE		NO.		BY		CHECKED		APPROVED	

SLICK ROCK SITE
BURRO CANYON
ALBUQUERQUE, NEW MEXICO
U.S. DEPARTMENT OF ENERGY

PRELIMINARY REVIEW		DATE		BY	
5.0 INCHES		DATE		BY	
0.5 INCHES		DATE		BY	

LEGEND:
 BORE HOLES
 MONITORING WELLS
 TEST PITS

REFERENCE DRAWINGS:

NOTES:

DATE: 5/26/93
 BY: K.M.

DATE: 5/26/93
 BY: K.M.

DATE: 5/26/93
 BY: K.M.

over Sandstone Unit: Burro Canyon
 5/5/90 data

16
5/20/13
Pit 2-86

LEGEND

- UPPER SANDSTONE UNIT MONITOR WELL
- MIDDLE SANDSTONE UNIT MONITOR WELL
- ◐ LOWER SANDSTONE UNIT MONITOR WELL

FIGURE 4
POTENTIOMETRIC SURFACE (JUNE 1, 1990)
IN THE LOWER SANDSTONE UNIT OF THE BURRO CANYON FORMATION
AT THE BURRO CANYON DISPOSAL SITE, SLICK ROCK, COLORADO

83/05 248
K 11 2/20/05

LEGEND:

BORE HOLES
MONITORING WELLS
TEST PITS

PRELIMINARY REVIEW

DATE	NAME
10/10/10	JOHN DOE
10/11/10	JANE SMITH
10/12/10	JOHN DOE
10/13/10	JANE SMITH
10/14/10	JOHN DOE
10/15/10	JANE SMITH
10/16/10	JOHN DOE
10/17/10	JANE SMITH
10/18/10	JOHN DOE
10/19/10	JANE SMITH
10/20/10	JOHN DOE
10/21/10	JANE SMITH
10/22/10	JOHN DOE
10/23/10	JANE SMITH
10/24/10	JOHN DOE
10/25/10	JANE SMITH
10/26/10	JOHN DOE
10/27/10	JANE SMITH
10/28/10	JOHN DOE
10/29/10	JANE SMITH
10/30/10	JOHN DOE
10/31/10	JANE SMITH

U.S. DEPARTMENT OF ENERGY
ALBUQUERQUE, NEW MEXICO

**SLICK ROCK SITE
SLICK ROCK, COLORADO
BURRO CANYON**

BORINGS AND TEST PIT LOCATION PLAN

DE-AC04-83AL18796

SRK-DS-10-0338

MORRISON KNUDSEN CORPORATION
CONSTRUCTION & SERVICE GROUP
IMIRA PROJECT

UNITRA PROJECT
 THE JOURNAL OF THE UNITRA PROJECT

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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and volume

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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3	
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Sandstone Unit: Burro Canyon
9/12/90 Data

10
18
LMS/201
PHL 5/6/19

ATTACHMENT C

HYDRAULIC GRADIENT AND FLOW VELOCITY CALCULATIONS

17
19

KM 5/20/93
PHL. 5/6/93

Burro Canyon Formation Upper Sandstone Unit

Hydraulic Gradient i:

For 5/5/90 data, $i = 20\text{ft}/490\text{ft} = 0.041$ to the SE

For 6/1/90 data, $i = 50\text{ft}/1445\text{ft} = 0.035$ to the SE

For 9/12/90 data, $i = 20\text{ft}/560\text{ft} = 0.038$ to the SE

Average Hydraulic Gradient = 0.038 to the SE

Flow Velocity:

From Darcy's Law, linear flow velocity $v = Ki/n$, where K = hydraulic conductivity and n = effective porosity. It is assumed that $n = 0.10$ (Freeze & Cherry, 1979), and $K = 0.04\text{ft/day}$.

$$\begin{aligned}\text{Average linear flow velocity} &= (0.04 \times 0.038)/0.10 \\ &= 0.015\text{ft/day} \\ &= 5.5\text{ft/yr}\end{aligned}$$

Burro Canyon Formation Middle Sandstone Unit

Hydraulic Gradient i:

For 5/5/90 data, $i = 15\text{ft}/978\text{ft} = 0.015$ to the SW-SE

For 6/1/90 data, $i = 20\text{ft}/1360\text{ft} = 0.015$ to the SE

For 9/12/90 data, $i = 15\text{ft}/1000\text{ft} = 0.015$ to the SW-SE

Average Hydraulic Gradient = 0.015 to the SW-SE

Flow Velocity:

From Darcy's Law, linear flow velocity $v = Ki/n$, where K = hydraulic conductivity and n = effective porosity. It is assumed that $n = 0.20$ (Freeze & Cherry, 1979), and $K = 0.09\text{ft/day}$.

$$\begin{aligned}\text{Average linear flow velocity} &= (0.09 \times 0.015)/0.20 \\ &= .007\text{ft/day} \\ &= 2.6\text{ft/yr}\end{aligned}$$

Burro Canyon Formation Lower Sandstone Unit

Hydraulic Gradient i:

For 5/5/90 data, $i = 40\text{ft}/680\text{ft} = 0.059$ to the S

For 6/1/90 data, $i = 40\text{ft}/735\text{ft} = 0.054$ to the S

For 9/12/90 data, $i = 40\text{ft}/780\text{ft} = 0.051$ to the S

Average Hydraulic Gradient = 0.055 to the S

Flow Velocity:

From Darcy's Law, linear flow velocity $v = Ki/n$, where K = hydraulic conductivity and n = effective porosity. It is assumed that $n = 0.10$ (Freeze & Cherry, 1979), and $K = 0.005\text{ft/day}$.

Average linear flow velocity

$$\begin{aligned} &= (0.005 \times .055) / 0.10 \\ &= .0028 \text{ft/day} \\ &= 1.0 \text{ft/yr} \end{aligned}$$

182
KMA 5/20/1
PH-L. 8/6/1

NOTES

SUBJECT: Check of the upper, middle, and lower Burro Canyon sandstone unit transmissivity and storage coefficient calculations

FROM: Paul Clement PHZ.

TO: Kathy Monks

DATE: May 19, 1993

I looked over the September 1990 data set for the three Burro Canyon sandstone units. In the process I checked what calculations I could without rerunning the computer analysis programs, checked the inputs to the programs, and hand calculated some of the data sets to compare to the computer generated results. I found no significant errors in calculations or program inputs. The results indicate that there is little if any communication between the upper, middle, and lower sandstone units. The rest of my conclusions are discussed below.

Upper Sandstone Unit

- 1) During pump test B well 523 was pumped for 39.1 hours at 0.13 gpm and for 1.1 hours at 0.21 gpm, which is a long enough duration of time to stress the upper sandstone unit. Unfortunately, no response was observed in the observation wells (including an observation well in the middle sandstone unit). Well 523 recovery data was analyzed by both the WHIP parameter estimation program and the Theis recovery method. The calculated curve fits look reasonable. I hand calculated, by the straight line residual drawdown method, the recovery data and got results that agree with the Theis recovery method.

It is generally not a good practice to use recovery data when the pumping rate was changed during the test, although the pumping rate was changed for only 1.1 hours and the recovery data may average out the change. Anyway, I hand calculated the well 523 drawdown data, by using the Jacobs approximation, and got results that agree with the Theis recovery method.

- 2) During pump test C well 529 was pumped for only 1.6 hours before it went dry. Unfortunately no responses were observed in the observation wells (including an observation well in the middle sandstone unit). At the 0.13 gpm pumping rate, and 1.6 hours of pumping, 12.5 gallons of water were pumped. The saturated length of 4 inch casing and gravel pack (assuming 10% porosity) contained approximately 12.5 gallons of water thus it is likely that very little water if any was derived from the upper sandstone. Therefore, the drawdown data is probably not representative of the upper sandstone unit, and borehole

KM 5/20/43
PHC 5/20/43

effects could be significant for the recovery data.

Well 529 recovery data was analyzed by both the WHIP parameter estimation program and the Theis recovery method. Both curve fits look pretty poor. I tried to hand calculate the well 529 recovery data by using the straight line residual drawdown method but there wasn't one log cycle of t/t' . Thus pump test C data does not look as reliable as pump test B data and probably should not be averaged in with pump test B data.

- 3) Wells 518 and 527 were analyzed using bailer recovery tests which withdrew 9 and 3.9 gallons respectively. The well 518 saturated length of borehole (8.8 ft) holds 7.4 gallons (assuming 10% porosity in gravel pack), and the well 527 saturated length of borehole (6 ft) holds 5.1 gallons. Thus borehole effects could be significant and not much stress was put on the sandstone unit. The recovery data was analyzed by the WHIP parameter estimation program. The curve fit for well 518 was pretty good but the fit for well 527 was pretty poor.

SUMMARY - The recovery and drawdown data from pump test B on well 523 is the best data on the upper sandstone. Instead of averaging all the results I would go with a transmissivity of 0.8 square-feet per day. Dividing by the initial saturated thickness of 18.9 ft gives a hydraulic conductivity of 0.04 ft/day. Since no observation wells responded to any of the tests there is no available specific storage.

Middle Sandstone Unit

During pump test A well 522 was pumped for 72 hours at 0.5 gpm. This is a sufficient length of time to stress the sandstone unit. There were responses in five observation wells in the middle sandstone unit, and no responses in observation wells in the upper and lower sandstone units. The WHIP parameter estimation program was used to analyze both recovery and drawdown data in the observation wells and recovery data in well 522. The resulting curve fits look reasonably good. I hand calculated distance versus drawdown for pump test A and got results that agree with the WHIP program results.

SUMMARY - This data set looks good, and a transmissivity of 6.0 square-feet per day, and a storativity of .00003 should be reliable data for the middle sandstone unit. Dividing by an aquifer thickness of 65 ft gives a hydraulic conductivity of 0.09 ft/day.

Lower Sandstone Unit

Wells 519, 521, and 524 were analyzed using slug tests which displaced 1.6 gallons of water. Again, borehole effects are likely to be significant. The WHIP parameter estimation program was used to calculate best fit curves to the data. The curve fits are reasonably good and give an average transmissivity of 0.1 square-feet per day. Slug tests aren't great but it is all that is available for the lower sandstone.

KM 5/20/93
P4C- 5/20/93

SUMMARY - A transmissivity of 0.1 square-feet per day is all that is available. Dividing by the well open interval of 20 ft gives a hydraulic conductivity of 0.005 ft/day.

JZ 7/18/91
RHP 1-25-93
KM 5/20/93
PHC 5/20/93

PUMPING TEST AND SLUG TEST ANALYSES
BURRO CANYON DISPOSAL SITE

PURPOSE: To estimate the aquifer parameters and the degree of hydraulic interconnection between the three water-bearing sandstone units in the Burro Canyon Formation at the Burro Canyon Disposal Site. This was done by analyzing pumping and slug tests conducted on monitor wells at the site.

METHOD AND PROCEDURES:

To measure the aquifer parameters of the water-bearing sandstone units of the Burro Canyon Formation, three pumping tests and five slug tests were conducted on monitor wells completed in the various units. Figure 1 is a geologic cross section of the Burro Canyon disposal site showing the three water-bearing sandstone units, and Figure 2 shows monitor well locations at the Burro Canyon disposal site. Table 1 presents well completion information for monitor wells at the Burro Canyon disposal site.

Pumping tests were conducted on monitor wells 523 and 529, completed in the upper (unconfined) sandstone unit, and on monitor well 522, completed in the confined, middle sandstone unit. Slug injection and bailer recovery tests were also conducted to further characterize the aquifer parameters of the upper unconfined unit, and to characterize the lower, confined sandstone unit. Bailer recovery tests were conducted on monitor wells 527 and 518, completed in the upper unit. Slug injection tests were conducted on monitor wells 519, 521 and 524 in the lower unit. During each aquifer test, drawdown and / or recovery measurements were collected on the tested wells and on other observation wells manually or with Druck pressure transducers linked with a Campbell CR21X datalogger.

The aquifer test data were analyzed on an IBM-compatible personal computer using WHIPtm, a sophisticated Well Hydraulics Interpretation Program. Data input parameters and the program operations are described in more detail below.

ASSUMPTIONS:

The assumptions used to analyze the aquifer test data were:

- 1) The upper, sandstone unit is an unconfined, homogenous, isotropic aquifer of infinite extent.

RHP
1-25-93

MONITORING WELL INFORMATION
SITE: SRK02 SITE 1 (BURRO CANYON)
REPORT DATE: 02/25/91

LOCATION ID	NORTH COORDINATE (FT)	EAST COORDINATE (FT)	GROUND ELEVATION (FT MSL)	BOREHOLE DEPTH (FT)	BOREHOLE DIAMETER (INCHES)	CASING ELEVATION (FT MSL)	CASING DEPTH (FT)	CASING DIAMETER (INCHES)	SCREEN BEGINNING DEPTH (FT)	SCREEN LENGTH (FT)	FLOW CODE	FORMATION OF COMPLETION
0516	61563.42	72034.65	5862.4	225.	6.13	5864.36	227.	2.	218.	10.	0	MB
0517	61680.99	72649.49	5870.2	340.	6.13	5871.80	342.	2.	333.	10.	0	LB
0518	62422.53	71848.03	5897.0	109.	8.	5898.03	111.	4.	102.34	10	0	UB
0519	62423.72	71861.12	5897.1	338.	8.	5898.12	340.	4.	326.	20.	0	LB
0520	62437.83	71851.03	5897.8	240.5	8.	5899.49	242.	4.	228.5	20.	0	MB
0521	62084.76	72562.05	5875.0	353.	8.	5876.05	-	4.	-	-	0	LB
0522	62070.57	72573.23	5874.6	235.	8.	5876.50	237.	4.	218.	30.	0	MB
0523	62083.89	72579.39	5875.0	125.	8.	5876.39	127.	4.	113.03	20.	0	UB
0524	61476.06	71805.85	5848.9	295.5	8.	5850.72	297.5	4.	283.5	20.	0	LB
0525	61487.44	71815.23	5849.1	203.	8.	5850.89	205.	4.	186.	30.	0	MB
0526	61322.72	72255.97	5833.8	207.	8.	5835.42	209.	4.	190.	30.	0	MB
0527	61337.49	72244.38	5834.6	81.	8.	5836.51	83.	4.	69.50	20.	0	UB
0528	62601.23	72223.94	5896.8	223.	8.	5898.37	225.	4.	211.	20.	0	MB
0529	62589.98	72217.21	5896.6	119.	8.	5898.51	121.	4.	112.07	10.	0	UB

FORMATION OF COMPLETION CODE:

MB - MIDDLE BURRO CANYON
LB - LOWER BURRO CANYON
UB - UPPER BURRO CANYON

FLOW RELATIONSHIP CODE:

0 - ON-SITE

DATA FILE: J:\DART\SRK02\MW10000.DAT

FIELDS DISPLAYED WITH A DASH INDICATE THE DATA IS UNAVAILABLE

Table 1 Well Completion Information for Monitor Wells at the Burro Canyon

7/11/91
5/20/93
PAC 5/20/93

JD 7/19/91
RHP 1-25-93
K11 5/20/93
PHC 5/20/93

- 2) The middle and lower units are confined, homogenous, isotropic aquifers of infinite extent.
- 3) The sandstone comprising each water-bearing unit behaves as a uniform porous media.
- 4) All assumptions applicable to the Jacobs-Cooper approximation are valid for these tests.
- 5) The stresses applied to the aquifer during slug and bailer recovery tests were uniform and were applied over a finite period of time.
- 6) The effects of well-bore storage are significant, and are accounted for in these analyses.

DATA SOURCES:

- 1) Well completion records and borehole logs (available at the UMTRA Project Office in Albuquerque).
- 2) Field pumping and slug test data, including data files from the Campbell 21X data logger (Attachment A).

CALCULATIONS AND ANALYSES:

A. Upper Unconfined (Unconfined) Sandstone Unit

1. Pumping Test, Monitor Well 523 (Test B)

Monitor well 523 was selected for the first pumping test on the upper, unconfined unit because it has the greatest saturated thickness (18.9 feet) of all the wells completed in the upper unit. Well 523 was pumped at an average rate of 0.13 gpm for 39.1 hours. After water levels had stabilized at this pumping rate (Figure 3), the pumping rate was increased to 0.205 gpm for 1.1 hours. Due to technical problems (the flow regulating Dole valves clogged with sediments), larger diameter dole valves were installed, and the pumping rate was increased to 0.5 gpm. However, the yield of the upper unconfined unit could not support this pumping rate, and excessive drawdown (Figure 3) required the pump to be shut off at 40.4 hours.

Drawdown and recovery were monitored in the pumping and observation wells. Observations wells included 522 (an adjacent well screened in the middle, confined unit), and monitor wells 518, 527 and 529, completed in the upper, unconfined unit. No responses

JD 7/14/91
RHP 1-25-93

KM 5/20/93
PHL 5/20/93

were observed in any of the observation wells because of their distance from the pumping well and / or the lack of hydrologic connection between the upper and middle units (Figure 3).

The transmissivity was calculated from the recovery data from well 523 using the program WHIP. The parameter estimation function of WHIP was used, which applies parameter estimation methods coupled with the analytical homogenous aquifer solution developed by Lai and Su (1974). The plot showing the best fit curve for the recovery analysis is presented in Figure 4. All program input parameters for the pumping test analyses are presented in Attachment B.

The transmissivity was also estimated using the Theis recovery method, where residual drawdown is plotted against normalized recovery time (t/t'). The Theis recovery analyses plot for the pumping test is shown in Figure 5.

Results of the Pumping Test on 523:

The results of the parameter estimation approach and the Theis recovery analysis differed slightly. The transmissivity estimated by parameter estimation was 1.58 ft²/day, while the transmissivity estimated using the Theis recovery method was 0.82 ft²/day.

The program WHIP estimated specific storage (S) values for the upper unit of 0.097. However, these values are only rough estimates, as the measurement of specific storage or storativity requires measurable drawdowns in observation wells other than the pumping well.

2. Pumping Test, Monitor Well 529 (Test C)

The second pumping test on the upper, unconfined groundwater unit was conducted on monitor well 529, shown in Figure 2. This well had the second-greatest saturated thickness (14.8 feet) of the four monitor wells completed in the upper unit.

Monitor well 529 was pumped at an average rate of 0.13 gpm for 1.6 hours, after which the well went dry (Figure 6). At 1.6 hours (98 minutes) after the test was initiated, the pump was turned off and recovery was initiated.

Drawdown and recovery were monitored in the pumping and observation wells. Observation wells included 528 (an adjacent well screened in the middle, confined unit), and the monitor wells completed in the upper, unconfined unit (wells 518, 523 and 527). No responses were observed in any of the observation wells due to the lack of direct hydrologic connection between the upper and middle units (well 528) or due to the observation wells' distance from the pumping well (wells 518, 523 and 527).

JD 7/19/91
RHP 1-25-93

KAT 5/20/93
PHC 5/20/93

The recovery data from this pumping test was analyzed to determine the transmissivity of the unconfined unit in the vicinity of well 529. All program input parameters for the WHIP analyses are presented in Attachment B. The initial transmissivity estimate using the parameter estimation function of WHIP was 0.068 ft²/day, but the curve fit was rather poor (Figure 7). This is probably due to the extremely low transmissivity of the upper sandstone unit near well 529. The irregular jump in the curve indicates problems with the mathematics in the curve-fitting procedure at this extremely low permeability.

For comparison purposes, the Theis recovery analysis method was utilized. Figure 8 is a plot of the residual drawdown versus the normalized recovery time (t/t'). A reasonable fit was obtained using a transmissivity value of 0.068 ft²/day, and assuming a specific storage of 0.119. The actual specific storage could not be accurately determined because no drawdowns were observed in other observation wells.

Results for Pumping Test on 529:

Both the parameter estimation method and the Theis recovery analysis yielded a transmissivity value of 0.068 ft²/day. Because of the extremely low permeability of the upper sandstone unit in the vicinity of well 529, the mathematics of aquifer analyses tend to break down, and the curves do not fit the actual drawdown data very well.

3. Bailer Recovery Tests on wells 518 and 527

The saturated thickness of the upper sandstone unit in the vicinity of wells 518 and 527 was 8.8 ft and 6.0 ft, respectively. Because of these limited saturated thicknesses, pumping tests could not be conducted, and bailer recovery tests were conducted instead.

Each well was bailed, and the extracted volume of water was estimated from the number of bailers of water removed. The well recovery was monitored and recorded. Drawdown was plotted as a function of time, and the parameter estimation function of WHIP was used to apply parameter estimation methods coupled with the analytical homogenous aquifer solution developed by Lai and Su (1974). The plots showing the best fit curves for each recovery analysis are presented in Figures 9 and 10. All program input parameters for the bailer recovery test analyses are included in Attachment C.

Results of the Bailer Recovery Tests:

SD 7/19/91
RHP 1-25-93

1H.C 9/20/93 KM 5/20/93

The analysis of the bailer recovery tests on wells 518 and 527 indicate that the transmissivity of the upper unit in the vicinity of 518 is 0.43 ft²/day, while the transmissivity near well 527 is 0.022 ft²/day (Figures 9 and 10).

4. Summary of the Tests on the Upper, Unconfined Unit:

Table 2 summarizes the results of all aquifer tests conducted on the upper water-bearing unit.

Table 2. Aquifer parameters measured in the upper, unconfined unit.

Monitor Well	Test Conducted	Transmissivity (Ft ² /day)	Specific Storage
523	Pumping Test, Parameter Est. on Recovery Data	1.58	0.097 ¹
	Pumping Test, Theis Recovery Analysis	0.82	0.097 ¹
529	Pumping Test, Parameter Est. on Recovery Data	0.068	0.119 ¹
	Pumping Test, Theis Recovery Analysis	0.068	0.119 ¹
518	Bailer Recovery Test	0.43	Not analyzed
527	Bailer Recovery Test	0.022	Not analyzed

AVERAGE VALUES:

$T = 0.16 \text{ ft}^2/\text{d}$ $S = 0.11^1$

I get an av T of 0.43 to 0.50

¹Rough estimate only. Accurate measurement of S requires measurable drawdowns in observation wells other than the pumping wells.

JD 7/19/91
RMP 125-93

K 11 5/20/93
PHC 5/20/93

B. Middle (Confined) Sandstone Unit

1. Pumping Test, Monitor Well 522 (Test A)

Monitor well 522 was selected for the pumping test on the middle water-bearing unit because it is located in a centralized area of the disposal site, and because previous sampling efforts indicated that this well recharges fairly rapidly. To determine the optimal pumping rate for the long-term pumping test, a step-drawdown test was conducted on well 522. Pumping rates during this step-test were varied from 0 to 2.33 gallons per minute. Figure 11 presents drawdown versus time as a function of the pumping rate during the step test on well 522.

This information was not analyzed to determine the transmissivity because of the complex nature of the highly variable pumping rate curve. However, because the step-drawdown test indicated that monitor well 522 could not sustain a long-term rate of 1 gpm, a pumping rate of 0.5 gpm was selected for the 72 hour test.

Monitor well 522 was allowed to recover overnight, and the long-term pumping test was initiated the following morning. Well 522 was pumped at a constant rate of 0.5 gpm for 72 hours. Water level observations were collected from the pumping well and from seven other observation wells. These included adjacent monitor wells 521 and 523, completed in the lower and upper water-bearing units, respectively, and monitor wells 516, 520, 525, 526 and 528, all completed in the middle water bearing unit. Monitor well locations are shown on Figure 2, and their distances from the pumping well are shown in Table 3.

5/19/91
RAP 1-25-93

KM 5/20/93
PHC 5/20/93

Table 3. Observation well distances from pumping well 522 (Test A).

Monitor Well	Unit of Completion	Distance to Pumping Well 522 (ft)
522	Middle Unit	0 ft
521	Lower Unit	18.1 ft
523	Upper Unit	14.7 ft
516	Middle Unit	739.8 ft
520	Middle Unit	810.2 ft
525	Middle Unit	956.3 ft
526	Middle Unit	812.4 ft
528	Middle Unit	635.3 ft

Measurable drawdowns were observed in the pumping well and in all observation wells completed in the middle unit.

After three days, the pump was shut off, and recovery was monitored for approximately 25 hours. At this time, the water level in well 522 had recovered to within one foot of the initial potentiometric surface. Figure 12 presents drawdown and recovery as a function of time in pumping well 522 and in the adjacent monitor wells 521 and 523, completed in the upper and lower sandstone units. No responses were observed in the upper and lower water-bearing sandstones. However, responses were observed in wells 516, 520, 525, 526 and 528 because of the confined characteristics of the aquifer. Figure 13 shows drawdown and recovery in the other observation wells in the middle water-bearing unit. These drawdowns ranged from one to 2.5 feet during the test.

The recovery data from the pumping test on well 522 was evaluated using the program WHIP. Transmissivity was estimated using the parameter estimation function of WHIP. The plot showing the best fit curve for the recovery analysis is presented in Figure 14. All program input parameters for the pumping test analyses are presented in Attachment B.

The drawdown and recovery data for the observation wells 516, 520, 525, 526 and 528 (Figure 13) were also analyzed using the parameter estimation function in WHIP. The resulting best fit curves are shown in Figures 15 through 24. Transmissivity and storativity values were determined and are summarized below.

5/5 7/19/91
RHP 1-25-93

KM 5/20/93
PHE 8/20/93

Results for Pumping Test on 522 (Test B)

The pumping test results for the middle water-bearing unit are summarized in Table 4 below:

Table 4 Aquifer parameters measured in the middle water-bearing unit, based on the pumping test conducted on monitor well 522 (Test A).

Well Number	Analysis Type	Transmissivity (Ft ² /Day)	Storativity
522 (Pumping Well)	Recovery	6.67 <i>6.87</i>	4.6E-5 <i>2.04</i>
516	Drawdown	6.16	3.4E-5
	Recovery	6.51	3.3E-5
520	Drawdown	4.51	2.3E-5
	Recovery	4.99	2.2E-5
525	Drawdown	7.25	3.5E-5
	Recovery	5.34	3.4E-5
526	Drawdown	4.94	3.4E-5
	Recovery	6.36	3.7E-5
528	Drawdown	5.22	2.7E-5
	Recovery	7.65	1.9E-5

on Fig 14

AVERAGE VALUES: $T = 5.9 \text{ ft}^2/\text{d}$ $S = 3E-5$
6.0

C. Lower (Confined) Sandstone Unit

Slug Injection Tests on Wells 519, 521 and 524

The hydraulic conductivity of the lower (confined) sandstone unit was determined by conducting slug injection tests on monitor wells 519, 521, and 524. A 4" diameter stainless steel slug with a volume of 0.217 ft³ was dropped into each well, and left in the well until completion of the test. Water level measurements were recorded manually or with a pressure transducer and data logger.

7/14/91
RHP 1-25-93

KM 5/20/93
PAC 5/20/93

The results are shown on Figures 24, 25, and 26, which present residual drawdown versus time for wells 519, 521, and 524.

The program WHIP was used to analyze the data from the slug injection tests. The parameter estimation method was used in the slug test analysis portion of the program to estimate transmissivity in the lower sandstone unit. Although the program WHIP also estimated a storativity value for each slug injection test, these values are not believed to be accurate estimates of storativity and are not tabulated here.

Results of Slug Injection Tests on the Lower Sandstone Unit:

Figures 28, 29 and 30 are the best-fit curves for the slug tests on the lower unit. Table 5 tabulates the results of the slug injection tests:

Table 5. Results of the Slug Injection Tests on the Lower Sandstone Unit.

Monitor Well Number.	Transmissivity (Ft ² /Day)	Storativity
519	0.222	Not analyzed
521	0.107	Not analyzed
524	0.05	Not analyzed

AVERAGE VALUES:

$$T = 0.11 \text{ ft}^2/\text{d}$$

0.13

LD 7/14/91
RHP 1-25-93

KM 5/20/93
PHC 5/20/93

D. CONCLUSIONS AND RECOMMENDATIONS:

Aquifer Parameters:

The aquifer tests conducted on the three water-bearing sandstone units of the Burro Canyon Formation indicate that the the transmissivities of the upper and lower units are very low. On the other hand, the transmissivity of the middle unit is more than one order of magnitude greater than that of the upper and lower units. The average aquifer parameters for each unit are summarized in Table 6.

Table 6. Summary of average transmissivity and storativity values for each water-bearing unit in the Burro Canyon Formation.

Burro Canyon Formation Unit	Average ² Transmissivity (Ft ² /Day)	Average Storativity
Upper Unit	0.16 ft ² /day	Not analyzed
Middle Unit	5.9	3E-5
Lower Unit	0.11	Not analyzed

Hydraulic Connection Between Units:

The 72 hour pumping test conducted on monitor well 522, completed in the middle sandstone unit, yielded 18 feet of drawdown in the pumping well, and one to 2.5 feet of drawdown in observation wells completed in the middle unit 635 to 950 feet away. However, no drawdown was observed in nearby wells completed in the upper and lower sandstone units during the three day period of the test. This indicates that there is not a significant hydraulic connection between the upper, middle, and lower water-bearing units of the Burro Canyon Formation at the disposal site. Additional evidence for this lack of interconnection between units lies in the fact that the geochemistry of groundwater from each unit is distinctly different from the geochemistry of groundwater from adjacent sandstone units (DOE, 1990). Furthermore, the thick mudstone layers between the water-bearing sandstone units of the Burro

²Geometric Mean

JD 7/19/91

RMP 1-25-43

KAT 5/20/93

Canyon Formation were observed to be unsaturated during drilling and monitor well installation at the site.

PHL 5/20/93

REFERENCES:

DOE (Department of Energy). Technical Summary of the Burro Canyon Disposal Site. 1990.

Lai, R.Y. and C. Su, 'Non-steady flow to a large well in a leaky aquifer', Journal of Hydrology, 22, pp. 333 - 345, 1974.

WHIP™, Well Hydraulics Interpretation Program, Version 3.22, by HYDRO GEO CHEM INC Groundwater Consultants, Tucson, AZ 1987

RHP 1-25-93 3D 7/91
 PHC 5/20/93 K11 5/20/93

LEGEND

┆ BENTONITE SEAL INDICATES TOP OF SAND PACK
 FOR WELL AS REFERENCE FOR WATER LEVEL

Kd DAKOTA SANDSTONE FORMATION

— Contact

Kbc BURRO CANYON FORMATION

┆ PACKER TEST INTERVAL WITH
 PERMEABILITY DETERMINATION
 (CM/S)

FIGURE 1
GEOLOGIC CROSS SECTION OF THE BURRO CANYON DISPOSAL SITE

PHC 5/20/93 032 7/9/94 1259

FIGURE 3
DRAWDOWN VERSUS TIME IN PUMPING WELL 523 (UPPER UNCONFINED UNIT)
AND IN OBSERVATION WELLS 522, 527, AND 529

PUMPING TEST B (UPPER PERCHED SYSTEM)

DRAWDOWN AND RECOVERY

WELL 523, $T = 1.58 \text{ FT}^2/\text{DAY}$, $S = 0.097$

FIGURE 4
BEST FIT ANALYSIS OF RECOVERY IN PUMPING WELL 523, (UPPER CONFINED UNIT)

7/91 K_i
RHP 1-25-93
K_M 5/20/93
PHC 7/2/91

WELL 523, $T = 0.82$, $S = 0.097$

FIGURE 5

THEIS RECOVERY ANALYSIS FOR WELL 523, (UPPER UNCONFINED UNIT)

Handwritten notes on the right margin:

- 16
- OK 7/4/91
- RMF 1-25-93
- K17512C193
- PHC. 5/24/91

UPPER (UNCONFINED) SYSTEM

DRAWDOWN (FT)

JLD 7/91 2
 RHP 1-25-93
 KAT 5/20/93
 PRC 9/20/93

FIGURE 7
 BEST FIT ANALYSIS OF RECOVERY IN PUMPING WELL 529, (UPPER CONFINED UNIT)

SRK 529, $T = 0.068 \text{ FT}^2/\text{DAY}$

FIGURE 8
THIS RECOVERY ANALYSIS FOR WELL 529, (UPPER UNCONFINED UNIT)

LD 7/91
RHP 1-25-93

KM 5/20/93

RHC 8/20/93

SRK518, BAILER RECOVERY, $T = 0.43 \text{ FT}^2/\text{D}$

FIGURE 9

BEST FIT CURVE FOR BAILER RECOVERY DATA, WELL 518 (UPPER UNCONFINED UNIT)

20

JTB 7/9/1
 RMP 12553
 K11 5/20/93
 Rte 5/20/93

SRK527, BAILER RECOVERY, $T=.022 \text{ FT}^2/\text{D}$

TIME (MINS)

FIGURE 10

BEST FIT CURVE FOR BAILER RECOVERY DATA, WELL 527 (UPPER UNCONFINED UNIT)

20
 7/9/1
 2
 RHP 1-25-93
 KIM 5/20/93
 Alt 5/20/93

FIGURE 11
DRAWDOWN VERSUS TIME IN PUMPING WELL 522 (MIDDLE CONFINED UNIT)
AND IN OBSERVATION WELLS 516, 523, AND 528 DURING THE STEP TEST

STEP TEST ON THE MIDDLE SYSTEM

BURRO CANYON FORMATION

JD 7/91
 RMP 1-25-93
 IL 111 5/20/93
 PRC 5/20/93

MIDDLE UNIT PUMPING TEST DRAWDOWN IN WELLS COMPLETED IN EACH UNIT (PUMPING TEST A)

DRAWDOWN (FEET)

FILE TESTA.WK1

FIGURE 12
 DRAWDOWN VERSUS TIME IN PUMPING WELL 522
 (MIDDLE CONFINED UNIT) AND IN NEARBY OBSERVATION WELLS

SL 7/4/93
RMT 1-25-93
K11 5/20/93
PHL 5/20/93

Middle Unit Pumping Test
Drawdown and Recovery in Observation Wells
Pumping Test A

DRAWDOWN (FEET)

WELL 520	WELL 525	WELL 526	WELL 516	WELL 528
810 FT	956 FT	812 FT	740 FT	635 FT
—■—	--△--	○.....	-*-	---■---

Lotus File TESTA2.WK1

FIGURE 13
DRAWDOWN AND RECOVERY IN OTHER OBSERVATION WELLS
DURING THE PUMPING TEST ON WELL 522

522 RECOVERY, $T = 6.89 \text{ FT}^2/\text{D}$, $S=2.69\text{E-}5$

FIGURE 14

BEST FIT ANALYSIS OF RECOVERY IN OBSERVATION WELL 522, (MIDDLE CONFINED UNIT) PUMPING TEST A

25

2
7/91
RAP 1-25-93

516 DRAWDOWN, $T = 6.16 \text{ FT}^2/\text{D}$, $S=3.42\text{E}-5$

FIGURE 15

BEST FIT ANALYSIS OF DRAWDOWN IN OBSERVATION WELL 516, (MIDDLE CONFINED UNIT) PUMPING TEST A

PH.C. 5/20/93

KM 5/22/93

299 P 1-25-43

7/9/91

WELL 516, T = 6.51 FT2/D, S=3.25E-5

FIGURE 16

BEST FIT ANALYSIS OF RECOVERY IN OBSERVATION WELL 516, (MIDDLE CONFINED UNIT) PUMPING TEST A

P.H.L. 5/20/93

7/11
RAP 125-43
K11 5/20/93

520 DRAWDOWN, $T = 4.51 \text{ FT}^2/\text{D}$, $S=2.31\text{E}-5$

PHC 5/24/93
PM 5/20/93
R911-25-93

FIGURE 17
BEST FIT ANALYSIS OF DRAWDOWN IN OBSERVATION WELL 520, (MIDDLE CONFINED UNIT) PUMPING TEST A

520 RECOVERY, $T = 4.99 \text{ FT}^2/\text{D}$, $S=2.19\text{E}-5$

FIGURE 18

BEST FIT ANALYSIS OF RECOVERY IN OBSERVATION WELL 520, (MIDDLE CONFINED UNIT) PUMPING TEST A

PAH 5/20/93

PAH 5/20/93

PAH 1-15-93

2/21 7/91

525 DRAWDOWN, $T = 7.25 \text{ FT}^2/\text{D}$, $S=3.54\text{E}-5$

FIGURE 19

BEST FIT ANALYSIS OF DRAWDOWN IN OBSERVATION WELL 525, (MIDDLE CONFINED UNIT) PUMPING TEST A

WELL 525, $T = 5.34 \text{ FT}^2/\text{D}$, $S=3.41\text{E}-5$

FIGURE 20

BEST FIT ANALYSIS OF RECOVERY IN OBSERVATION WELL 525, (MIDDLE CONFINED UNIT) PUMPING TEST A

Handwritten notes:
 114 5/20/93
 RMT 1-25-93
 JH 7/9/1

526 DRAWDOWN, $T = 4.94 \text{ FT}^2/\text{D}$, $S=3.35\text{E-}5$

FIGURE 21
BEST FIT ANALYSIS OF DRAWDOWN IN OBSERVATION WELL 526, (MIDDLE CONFINED UNIT) PUMPING TEST A

526 RECOVERY, $T = 6.36 \text{ FT}^2/\text{D}$, $S=3.67\text{E-}5$

PHC. 5/20/93

LD 7/91
 RAP 1-25-43
 K11 5/25/93

FIGURE 22

BEST FIT ANALYSIS OF RECOVERY IN OBSERVATION WELL 526, (MIDDLE CONFINED UNIT) PUMPING TEST A

528 DRAWDOWN, $T = 5.22 \text{ FT}^2/\text{D}$, $S=2.65\text{E}-5$

FIGURE 23

BEST FIT ANALYSIS OF DRAWDOWN IN OBSERVATION WELL 528, (MIDDLE CONFINED UNIT) PUMPING TEST A

OKC 5/20/93
K115/20/93
R41 1-25-93
JL 7/91
30

WELL 528, $T = 7.65 \text{ FT}^2/\text{D}$, $S=1.93\text{E}-5$

FIGURE 24

BEST FIT ANALYSIS OF RECOVERY IN OBSERVATION WELL 528, (MIDDLE CONFINED UNIT) PUMPING TEST A

7/11
RAP 1-25-93

KM 5/20/93
PHC. 5/20/93

SLUG INJECTION TEST

WELL 519 (LOWER SYSTEM)

FIGURE 25

RESIDUAL DRAWDOWN VERSUS TIME FOR SLUG INJECTION TEST, WELL 519 (LOWER CONFINED UNIT)

2/11 7/91
R91P 1-25-93
L M 5/20/93
PAC 5/20/93

46

SLUG INJECTION TEST

WELL 521 (LOWER SYSTEM)

FIGURE 26

RESIDUAL DRAWDOWN VERSUS TIME FOR SLUG INJECTION TEST, WELL 521 (LOWER CONFINED UNIT)

LD 7/41
RHP 1-25-93
KIA 5/20/93
PHC 5/20/93

FIGURE 27

RESIDUAL DRAWDOWN VERSUS TIME FOR SLUG INJECTION TEST, WELL 524 (LOWER CONFINED UNIT)

SLUG INJECTION TEST

WELL 524 (LOWER SYSTEM)

RMF 72543
KM 5/20/93
pkc
9/29/94

519, LOWER UNIT, $T = .222 \text{ FT}^2/\text{D}$, $S = 3.6\text{E-}5$

FIGURE 28

BEST FIT CURVE FOR THE SLUG TEST ON WELL 519 (LOWER CONFINED UNIT)

2/20
 7/9/1
 4.
 RM 1-25-93
 KM 5/26/93
 PHE. 5/20/9

521, LOWER UNIT, $T=.107$ FT²/D, $S=3.7E-4$

FIGURE 29
BEST FIT CURVE FOR THE SLUG TEST ON WELL 521 (LOWER CONFINED UNIT)

SE 7/91 4.1
RAP 1-25-43
KM 5/20/93
phtc 5/20/94

524, LOWER UNIT, $T = .05$ FT²/D, $S = 4.45E-4$

FIGURE 30

BEST FIT CURVE FOR THE SLUG TEST ON WELL 524 (LOWER CONFINED UNIT)

2/5
 7/91
 Rdy 175-95
 KM 5/20/93
 PHL 5/20/92

CALCULATION COVER SHEET

CALC NO. ^(S.P.N.) SPK-09-94-12-01-00 DISCIPLINE ENGR/HYDRO NO. OF SHEETS 6

PROJECT:

UMTRA

SITE:

SLICK ROCK, COLORADO

FEATURE:

WATER BALANCE - BURRO CANYON DISPOSAL CELL
& SURFACE CONTOURS

SOURCES OF DATA:

see page 1

SOURCES OF FORMULAE & REFERENCES:

see page 1, 2, and 3

RELIMINARY CALC. ☒ FINAL CALC. ☐ SUPERSEDES CALC. NO. _____

		<u>J. Crain</u>	<u>9/19/94</u>	<u>T. Sil & M. J.</u>	<u>9/15/94</u>	<u>David H. H.</u>	<u>10/11/94</u>
REV. NO.	REVISION	CALCULATION BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE

PROBLEM STATEMENT AND PROPOSED SOLUTION:

The potential for lateral seepage of tailings pore fluid occurring in the sandstone layers (designated Kd1 and Kd2) at the Burro Canyon disposal cell. Because outcrops of Kd1 and Kd2 are found in the vicinity of the disposal cell, surface seeps of tailings pore fluid might develop eventually - which could impact human health and the environment.

To resolve the issue, the following mass balance calculation demonstrates that surface seeps will not develop. The volume between the bottom of the disposal cell and the lowest sandstone layer (Kd1) is more than adequate to accommodate water addition from compaction and dust control without a saturated zone at the base of the disposal cell rising to the height of Kd1 and moving laterally through the layer. Both precipitation and snowmelt will be routed to a sump at the lowpoint of the excavation and pumped to an evaporation pond. Also, a temporary clay cover will be placed on the contaminated material prior to the winter shut-down period. Although water from snowmelt and precipitation are not included in the water balance, there is a considerable allowance for uncontrolled water addition to the disposal cell without creating the potential for the lateral movement of contaminated water through the Kd1 layer.

DATA

Geologic logs of wells and borehole:	1) TAC characterization effort (November 1990) 2) RAC characterization effort (November 1993)
MKES Calculations:	1) 11-250-04-03 Embankment Design - Embankment Material Properties 2) 11-321-01-00 Radon Barrier Design - RAECOM Input Data 3) 11-333-02-00 Embankment Quantities - Excavation and Cover Materials
MKES Drawings:	1) SRK-DS-10-0331 Site Preparation and Temporary Drainage Facilities 2) SRK-DS-10-0338 Borings and Test Pits Location Plan
MKES Specifications:	Document No. 3885-SRK-S-01-02429-01 Issued for Review-Revision B, Earthwork, 02200-23

ASSUMPTIONS

1) The UC and NC tailings are dry sand - add 2% gravimetric moisture content for dust control. The added moisture content value is based on experience handling and transport of sand tailings at the Green River, Utah UMTRA site.

2) Water from snowmelt and precipitation will be collected and removed from the disposal cell bottom and is not considered in the water balance calculation

3) A drainage flux (seepage) from the base of disposal cell during the construction period is not considered in the water balance calculation

4) The porosity of all compacted contaminated materials is 0.40 (Calculation No. 11-321-01-00). The insitu dry density of sand tailings is 88 lb/ft³, and the insitu dry density of contaminated soil (excluding the gravel fraction) is 100 lb/ft³ (Calculation No. 11-250-04-03).

CALCULATION

Material	Volume, cy	Gravimetric Moisture Content, %		
		residual	optimum	delta (Δ), %
UC off-pile	87,500	7.1	11.8	4.7
UC sub-pile	104,100	11.4	16.1	4.7
NC off-pile & sub-pile	34,300	13.4	14.0	0.6
UC and NC tailings	392,300		a	2.0

- No compaction water will be added to sand tailings

1) The potential volume of drainable water is computed as follows:

a) mass of contaminated material:

$$M = V \left(\frac{27 \text{ ft}^3}{\text{cy}} \right) \gamma_d$$

where: M = mass of material (lb)
 V = volume of material (cy)
 γ_d = dry bulk density (lb/ft³)

b) volume of drainable water

$$V_w = M \left(\frac{\Delta}{\gamma_w} \right)$$

where: M = mass of material (lb)
 Δ = difference between optimum and
 residual moisture contents
 (gravimetric)
 γ_w = bulk density of water (62.4 lb/ft³)
 V_w = volume of drainable water (ft³)

c) tabular results

Material	Volume of water, ft ³
UC off-pile	177,945
UC sub-pile	211,703
NC off-pile & sub-pile	8905
UC and NC tailings	298,752
Total	Σ697,305 ft ³

2) total potential volume of saturated contaminated material

$$V_{total} = \frac{V_{voids}}{n - \theta}$$

where: n = porosity
 θ = volume of water in voids

$$V_{total} = \frac{697,305}{0.45 - 0.05} \text{ ft}^3 = 1,743,263 \text{ ft}^3 = 64,565 \text{ cy}$$

3) total excavated volume (from Calculation No. 11-333-02-00)

529,939 cy

4) total excavated volume between the bottom of disposal cell and lowest elevation of sandstone layer designated Kd1 (by Trapezoidal Rule) (refer to pages 5 and 6)

$$7,856,080 \text{ ft}^3 = 290,966 \text{ cy}$$

CONCLUSIONS

The excavation depth at the southern end of the disposal cell is over 30-35 feet (9-11 meters) below the lowest sandstone layer of the Dakota Formation (Kd1). Furthermore, the potential volume of saturated contaminated material is insignificant compared to the volume between the disposal cell bottom surface and the lower surface of the Kd1 layer. The factor of safety (the ratio of available volume (line 4) to potentially saturated contaminated material (line 2) is:

$$\text{Factor of Safety} = \frac{290,966}{64,565} = 4.5$$

VOLUME COMPUTATIONS

Time of logging: Mon Aug 29 10:51:37 1994

UPPER SURFACE

Grid File: C:\SRK\KD1.GRD
Rows: 1 to 32767
Cols: 1 to 32767
Grid size as read: 100 cols by 93 rows
Delta X: 8.9798
Delta Y: 8.96739
X-Range: 21616 to 22505
Y-Range: 19225 to 20050
Z-Range: 5852.94 to 5881.69

LOWER SURFACE

Grid File: C:\SRK\LOW.GRD
Rows: 1 to 32767
Cols: 1 to 32767
Grid size as read: 100 cols by 93 rows
Delta X: 8.9798
Delta Y: 8.96739
X-Range: 21616 to 22505
Y-Range: 19225 to 20050
Z-Range: 5817.42 to 5869.86

VOLUMES

Approximated Volume by

Trapezoidal Rule : 7856080 — 290,965 cy
Simpson's Rule : 7860970
Simpson's 3/8 Rule: 7858940

CALCULATION COVER SHEET

CALC NO. SRK-11-94-14-09-00 DISCIPLINE HYDRO NO. OF SHEETS 1/3

PROJECT:

UMTRA

SITE:

Slick Rock - Burro Canyon Disposal Site

FEATURE:

Analytical Calculation of Drawdown in a Hypothetical Well Completed in the Upper Sandstone Unit of the Burro Canyon Formation

SOURCES OF DATA:

SRK-06-91-14-03-00

SOURCES OF FORMULAE & REFERENCES:

Driscoll, F.G., 1986, Groundwater and Wells, Johnson Division, St. Paul, Minnesota 55112

PRELIMINARY CALC. ☐ FINAL CALC. ☒ SUPERSEDES CALC. NO. _____

		J Johnston	12/9/94	K Lambert	8/23/95	A Miller	8/24/95
				A Miller	8/24/95		
REV. NO.	REVISION	CALCULATION BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE

2/3
KAL 8/23/9

Calculation: SRK-11-94-14-09-00

Analytic Calculation of Drawdown in a Hypothetical Well Completed in the Upper Sandstone Unit of the Burro Canyon Formation

Purpose and Scope:

The purpose of this calculation is to demonstrate that the uppermost water-bearing unit at the Burro Canyon disposal site cannot sustain a yield of 150 gallons per day (gpd) (6.6×10^{-3} liters per second [L/s]). The upper sandstone of the Burro Canyon Formation is considered to be the first water-bearing unit at the disposal site.

Method and Procedures:

Drawdown within a hypothetical well completed in the upper sandstone of the Burro Canyon Formation was calculated using the Theis nonequilibrium well equation (Driscoll, 1986). When u is sufficiently small the nonequilibrium equation can be modified without significant error. The modified form is valid when time (t) is sufficiently large and the distance from the center of a pumped well to where the drawdown is measured (r) is sufficiently small. In this case the exponential integral function, $W(u)$, is replaced by a logarithmic term which is easier to work with in practical applications of well hydraulics. The modified equation is:

$$s = \frac{264Q}{T} \log \frac{0.3 T t}{r^2 S}$$

s = drawdown, in ft, at any point in the vicinity of a well discharging at a constant rate

Q = pumping rate, in gpm.

T = coefficient of transmissivity of the aquifer, gpd/ft

r = distance, in ft, from the center of a pumped well to a point where the drawdown is measured

S = coefficient of storage (dimensionless)

t = time since pumping started, in days

Assumptions:

The Theis equation assumptions are presented in Driscoll, 1986. Site-specific assumptions are:

- The hydraulic properties of the upper sandstone unit were determined from low-yield aquifer pumping tests conducted on monitor wells SRK-01-0523 and -0529. Transmissivity of the upper sandstone unit was calculated using the recovery data from the test on well SRK-01-0523.
- No drawdown was observed in surrounding monitor wells during the aquifer test, therefore a storage coefficient was selected based on unconfined conditions and the silty sandstone matrix of the upper sandstone unit.
- The maximum discharge allowed for a Class III groundwater classification was selected for the calculation.
- Drawdown was calculated using the borehole radius of well SRK-01-0523.
- A time period of 365 days was selected for the calculation as a reasonable period of sustained yield for a water supply well.

3/3
KAL
8/23/95

Data Sources:

Calculation SRK-06-91-14-03-00.

Calculations:

Inputs to Theis modified equation presented above are:

$$T = 0.82 \text{ ft}^2/\text{day} = 6.13 \text{ gpd/ft}$$

$$S = 0.1$$

$$Q = 150 \text{ gpd} = 0.104 \text{ gpm}$$

$$r = 0.333 \text{ feet}$$

$$t = 365 \text{ days}$$

Therefore, $s = 21.42 \text{ feet}$

Results

The result of the calculation demonstrates that the hypothetical well is pumped dry and cannot sustain a yield of 150 gpd ($6.6 \times 10^{-3} \text{ L/s}$). The maximum observed saturated thickness in the upper sandstone of the Burro Canyon Formation at the disposal site is 18.9 feet and the calculated drawdown in the hypothetical well was 21.42 feet, therefore the well is pumped dry.

Conclusions:

The analytical calculation demonstrates that the uppermost aquifer at the disposal site cannot provide a sustained yield of 150 gpd. Because of the low yield from the aquifer, ground water is Classified as Class III (limited use), in accordance with 40 CFR 192.11(e) of the EPA ground water standards. As a result of the limited quantity of water available, the upper sandstone unit (uppermost aquifer) is not, and never can be, a viable source of water.

References:

See cover page.

Equation used for calc:
$$s = \frac{264Q}{T} \log \frac{0.3 T t}{r^2 S}$$

where : Q - gpm

T - gpd/ft

t - days

S - storativity (dimensionless)

r - distance from well to where drawdown is measured, in ft

the equation is valid only when values of u are about 0.05 or less (see Driscoll, 1986, pg 219), based on the following equation:

$$u = \frac{1.87 r^2 S}{T t}$$

purpose of this supplement:
is $u \leq 0.05$?

$$u = \frac{1.87 (0.333 \text{ ft})^2 0.1}{(6.13 \text{ gpd/ft})(365 \text{ days})}$$

$$u = 9 \times 10^{-6} \quad \text{therefore, the equation used in the calculation should be valid.}$$

check on primary calculation:

$$\begin{aligned} s &= \frac{264Q}{T} \log \frac{0.3 T t}{r^2 S} \\ &= \frac{(264)(0.1 \text{ gpm})}{6 \text{ gpd/ft}} \log \frac{(0.3)(6 \text{ gpd})(365 \text{ days})}{(0.33)^2 (0.1)} \end{aligned}$$

$$= 4.4 \times \log 6 \times 10^4$$

$$= 4.4 \times 5$$

$$s = 20 \text{ ft} \leftarrow \text{checks}$$

$$(150 \text{ gpd}) \left(\frac{1 \text{ day}}{1440 \text{ min}} \right) = 0.104 \text{ gpm}$$

$$\begin{aligned} & \left(\frac{0.82 \text{ ft}^3}{\text{day}} \right) \left(\frac{1 \text{ day}}{1.5 \text{ ft}^3} \right) \\ & (0.82 \text{ ft}^3/\text{day}) \left(\frac{7.5 \text{ gal}}{1 \text{ ft}^3} \right) = 6.15 \text{ gpd/ft} \end{aligned}$$