

DOE/UMTRA--350214-0000

DE93 005953

ESCARPMENT SEEPS AT SHIPROCK, NEW MEXICO

October 1991

Jacobs Engineering Group, Inc.
5301 Central Avenue, NE
Albuquerque, NM 87108

Work performed under U.S. Department of Energy
Contract DE-AC04-91AL62350

MASTER

DISTRIBUTION OF THIS DOCUMENT IS UNLIMITED *ep*

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency Thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

DISCLAIMER

Portions of this document may be illegible in electronic image products. Images are produced from the best available original document.

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe on privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
1.0 SUMMARY AND CONCLUSIONS	1
2.0 INTRODUCTION	3
3.0 GEOLOGY AND HYDROLOGY	5
3.1 Geology and groundwater hydrology	5
3.2 Surface water hydrology	6
4.0 SAMPLING, ANALYSIS, AND INTERPRETATION	13
4.1 Sampling locations	13
4.2 Analytical parameters	13
4.3 Analytical results and interpretation	14
4.3.1 Seep samples	14
4.3.2 Terrace alluvial monitor well samples	14
4.3.3 Comparison of seep and terrace monitor well samples	15
4.3.4 Floodplain alluvium samples	15
4.3.5 Dakota Sandstone well samples	15
5.0 RISK ANALYSIS	69
5.1 Human health assessment	69
5.1.1 Contaminants of concern	70
5.1.2 Exposure assessment	70
5.1.3 Risk characterization	71
5.1.4 Radiological risks	72
5.2 Ecological risk assessment	73
5.2.1 Toxicity to wildlife	73
5.2.2 Toxicity screening for livestock	74
REFERENCES	79
APPENDIX A Groundwater quality data by parameter for terrace alluvium	
APPENDIX B Groundwater quality data by parameter for floodplain alluvium	

LIST OF FIGURES

<u>Figure</u>	<u>Page</u>
3.1 Plan view of disposal cell, Shiprock, New Mexico, site	7
3.2 Locations of former tailings piles and unlined tailings raffinate lagoons, Shiprock, New Mexico, site	8
3.3 Location of cross section and monitor wells, Shiprock, New Mexico, site.	9
3.4 Cross-section A-A', Shiprock, New Mexico, site	10
3.5 Phreatic surface in alluvial terrace/weathered Mancos Shale before remedial action at the Shiprock, New Mexico, site	11
4.1 Trilinear diagram of selected well and seep samples, Shiprock, New Mexico, site	16
4.2 1983 concentrations of key constituents in terrace alluvium monitor wells, Shiprock, New Mexico, site	17
4.3 1990-1991 concentrations of key constituents in terrace alluvium monitor wells, Shiprock, New Mexico, site	18

LIST OF TABLES

<u>Table</u>	<u>Page</u>
4.1 Major constituent concentrations from Shiprock, New Mexico seeps	19
4.2 Groundwater quality data by location, Shiprock escarpment seeps, Shiprock, New Mexico, site	20
4.3 Groundwater quality measurements exceeding maximum concentration limits, Shiprock escarpment seeps, Shiprock, New Mexico, site	24
4.4 Groundwater quality statistics by parameter, Shiprock alluvial terrace monitor wells, Shiprock, New Mexico, site	26
4.5 Groundwater quality measurements exceeding maximum concentration limits, alluvial terrace monitor wells, Shiprock, New Mexico, site	32
4.6 Groundwater quality statistics by parameter, floodplain alluvium monitor wells, Shiprock, New Mexico, site	36
4.7 Groundwater quality measurements exceeding maximum concentration limits, floodplain alluvium, Shiprock, New Mexico, site	42
4.8 Groundwater quality data by location, Dakota Sandstone well, Shiprock, New Mexico, site	57
4.9 Groundwater quality statistics by parameter, Dakota Sandstone well, Shiprock, New Mexico, site	61
4.10 Groundwater quality measurements exceeding maximum concentration limits, Dakota Sandstone well, Shiprock, New Mexico, site	66
5.1 Seep water concentrations of selected contaminants, Shiprock, New Mexico, site	76
5.2 Average daily contaminant intake, Shiprock, New Mexico, site	76
5.3 Hazard quotients and hazard index, Shiprock, New Mexico, site	76
5.4 Lifetime radiological risks due to one year of exposure, Shiprock, New Mexico, site	77
5.5 Aquatic toxicity concentrations, Shiprock, New Mexico, site	77
5.6 Toxicity of seep contaminants to livestock, Shiprock, New Mexico, site	78

1.0 SUMMARY AND CONCLUSIONS

During the 1990 prelicensing custodial care inspection of the Shiprock, New Mexico, Uranium Mill Tailings Remedial Action (UMTRA) Project site, two seeps were identified in the escarpment of Mancos Shale that rises from the San Juan River floodplain. These seeps were sampled in January 1991 because the U.S. Department of Energy (DOE) and the Navajo Nation were concerned that the seeps may be related to former uranium processing activities or tailings disposal at the site. The purpose of this report is to characterize the seeps, to evaluate the relationship between the seeps and uranium processing activities or tailings disposal, and to evaluate the risks posed by the seep water to human health and the environment.

The seeps were first identified in the Shiprock Processing Site Characterization Report (DOE, 1984) and in the Final Remedial Action Plan (DOE, 1985). However, due to the seasonal nature of the discharges, the DOE and Navajo Nation had difficulty locating and sampling them until the 1990 prelicensing custodial care inspection. This report represents an evaluation of the analytical results and discussion of potential health risks associated with these periodic discharges.

The seep water contains concentrations of nitrate, selenium, and uranium that exceed the U.S. Environmental Protection Agency's (EPA's) proposed groundwater maximum concentration limits (MCLs). These chemical constituents are typically associated with acid leach-solvent extraction uranium processing. Monitor wells in the terrace alluvium beneath the disposal cell have a similar water quality type. Groundwater in the terrace alluvium that is derived from uranium processing activities has the potential to flow through fractures in the underlying weathered Mancos Shale and discharge from the escarpment as a seep. Both the chemical and hydrogeologic information suggest that the seeps are related to uranium processing activities.

The analysis of the health risk to humans indicates that the risk is low to the local population from ingesting seep water in part because access to the floodplain is currently restricted. There is also little risk from consuming the meat of sheep that have been exposed to seep contaminants while grazing. The environmental risk analysis indicated that only wildlife with a very limited range living in the immediate vicinity of the seeps could be affected by the contaminants in the seeps. These few individuals represent a small portion of the total population of the species and, thus, the effects to any species would be negligible.

The DOE will include the seeps in the Shiprock site sampling plan. The seeps will be sampled annually and records will be kept on the locations of the seeps and the approximate rates of flow. Since the known seeps are confined to the base of the escarpment adjacent to the flood plain and the risk to human health and the environment is low, the DOE will defer further investigation until the start of the Uranium Mill Tailings Remedial Action Groundwater Program.

2.0 INTRODUCTION

The purpose of this report is to characterize the seeps identified at the Shiprock UMTRA Project site during the prelicensing custodial care inspection conducted in December of 1990, to evaluate the relationship between the seeps and uranium processing activities or tailings disposal, and to evaluate the risk posed by the seep water to human health and the environment. The report provides a brief description of the geology, groundwater hydrology, and surface water hydrology. The locations of the seeps and monitor wells are identified, and the water quality of the seeps and groundwater is discussed in the context of past activities at the site. The water quality records for the site are presented in tables and appendices; this information was used in the risk assessment of seep water.

For ease in reading, figures and tables are placed at the end of each section.

3.0 GEOLOGY AND HYDROLOGY

3.1 GEOLOGY AND GROUNDWATER HYDROLOGY

A plan view of the Shiprock disposal cell is shown on Figure 3.1. The disposal cell foundation rests on approximately 20 feet of river terrace alluvium. The alluvial terrace deposit is underlain by Mancos Shale consisting of flat-lying beds of shales and sandy shales. In the Shiprock area, the Mancos Shale extends to depths of up to 2000 feet. Beneath the Mancos Shale is the Dakota Sandstone, a regional aquifer that has received little domestic use in the Shiprock area because of the abundance of surface water from the San Juan River.

To the north of the site and beneath an escarpment of the Mancos Shale is the modern floodplain alluvium, which is located in a channel incised by the San Juan River. The floodplain alluvium consists of unconsolidated, interbedded gravels, sands, and clays.

Groundwater at the Shiprock site occurs in the floodplain alluvium, terrace alluvium/weathered Mancos Shale (beneath the tailings), and Dakota Sandstone. The floodplain alluvium is a shallow, continuous groundwater system in which groundwater flows to the northwest and discharges into the San Juan River. The water quality in the floodplain alluvium has been influenced by uranium processing activity at the site. Although the floodplain alluvium is contaminated, contaminant migration in the floodplain alluvium is controlled to the north by the San Juan River and to the south by the escarpment of Mancos Shale.

During uranium processing, tailings were slurried into piles on the terrace alluvium. Tailings raffinate was disposed of in unlined lagoons to the southwest of the tailings piles as shown on Figure 3.2. Perched groundwater occurs beneath the tailings disposal cell in the terrace alluvium and in fractures and the upper weathered portion of the Mancos Shale. This water is limited in areal extent and is derived primarily from past uranium processing activities and transient drainage of moisture within the disposal cell. As shown on Figures 3.3, 3.4, and 3.5, the perched water has the hydraulic potential to discharge through fractures in the Mancos Shale to seeps on the escarpment and to the floodplain alluvium. This scenario differs from previous interpretations, which assumed that raffinate was discharged directly from the milling operation to the floodplain. Furthermore, there also may be some discharge as groundwater underflow in the vicinity of Bob Lee Wash. Because of the low precipitation rate (6.4 inches per year) and the high evaporation rate (46 inches per year) (DOE, 1984), most of the groundwater within the terrace deposits is probably derived from milling operations. In 1986, the disposal cell was covered with a low-hydraulic conductivity cover that should reduce recharge to the terrace alluvium.

Groundwater also occurs in the Dakota Sandstone, which is over 2000 feet below the tailings disposal cell. Groundwater in the Dakota Sandstone occurs under artesian conditions in the site vicinity, as demonstrated by a flowing well (648) (see Figure 3.2) that discharges into Bob Lee Wash near the site. The impermeable nature of the Mancos Shale, which confines the Dakota Sandstone, and the upward hydraulic head in the Dakota Sandstone

has prevented tailings seepage from affecting water quality in the Dakota Sandstone. A more detailed discussion of the groundwater hydrology is provided in the remedial action plan for the Shiprock site (DOE, 1985).

3.2 SURFACE WATER HYDROLOGY

The nearest occurrence of perennial surface water in the site area is the San Juan River, which is the northern boundary of the floodplain alluvium as shown on Figure 3.1. Bob Lee Wash is an ephemeral drainage to the west of the disposal cell that receives a constant discharge of about 60 gallons per minute (gpm) from an uncapped artesian well (648) completed in the Dakota Sandstone. The locations of the seeps (425 and 426) along the Mancos Shale escarpment are shown on Figures 3.1 and 3.2.

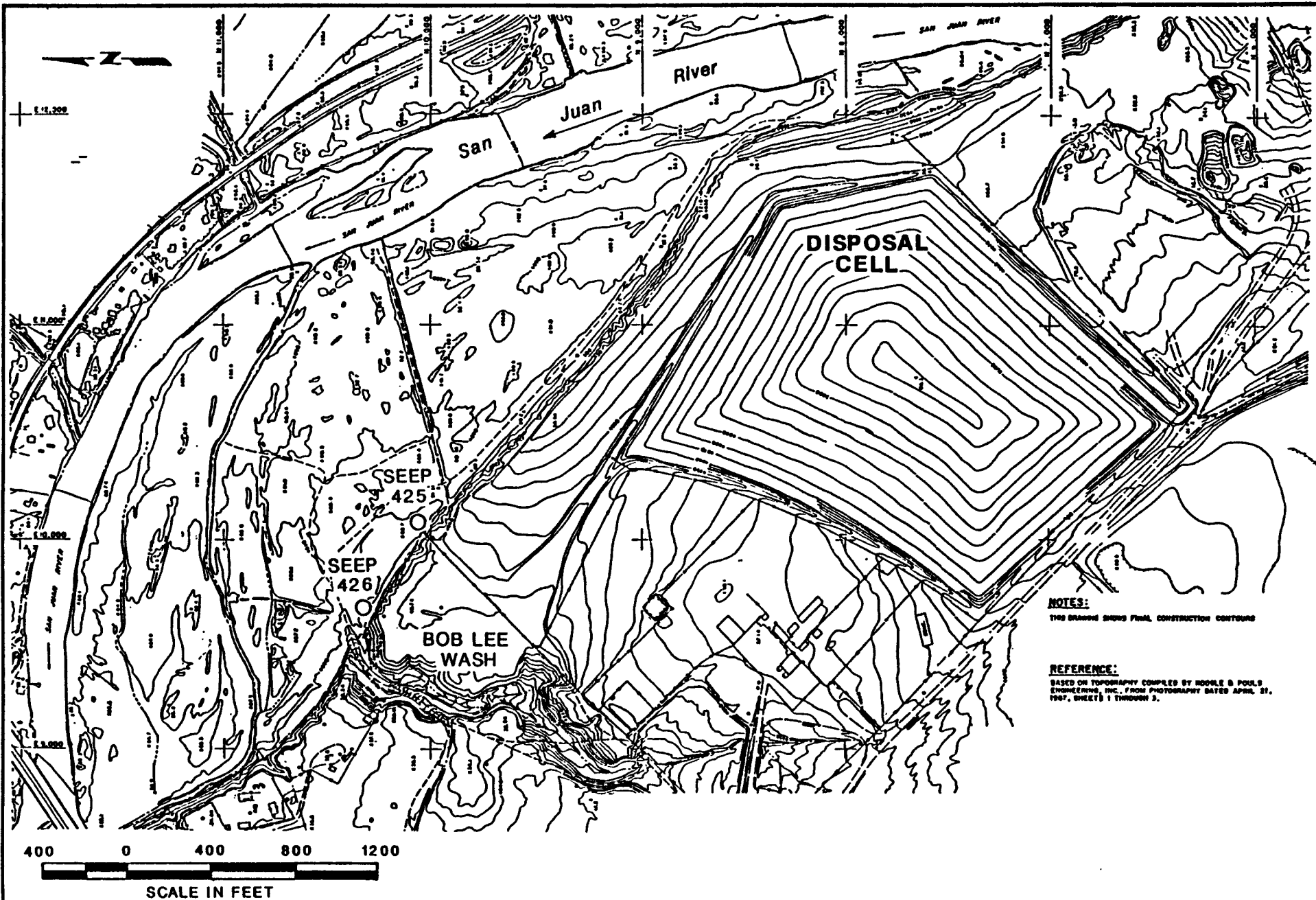
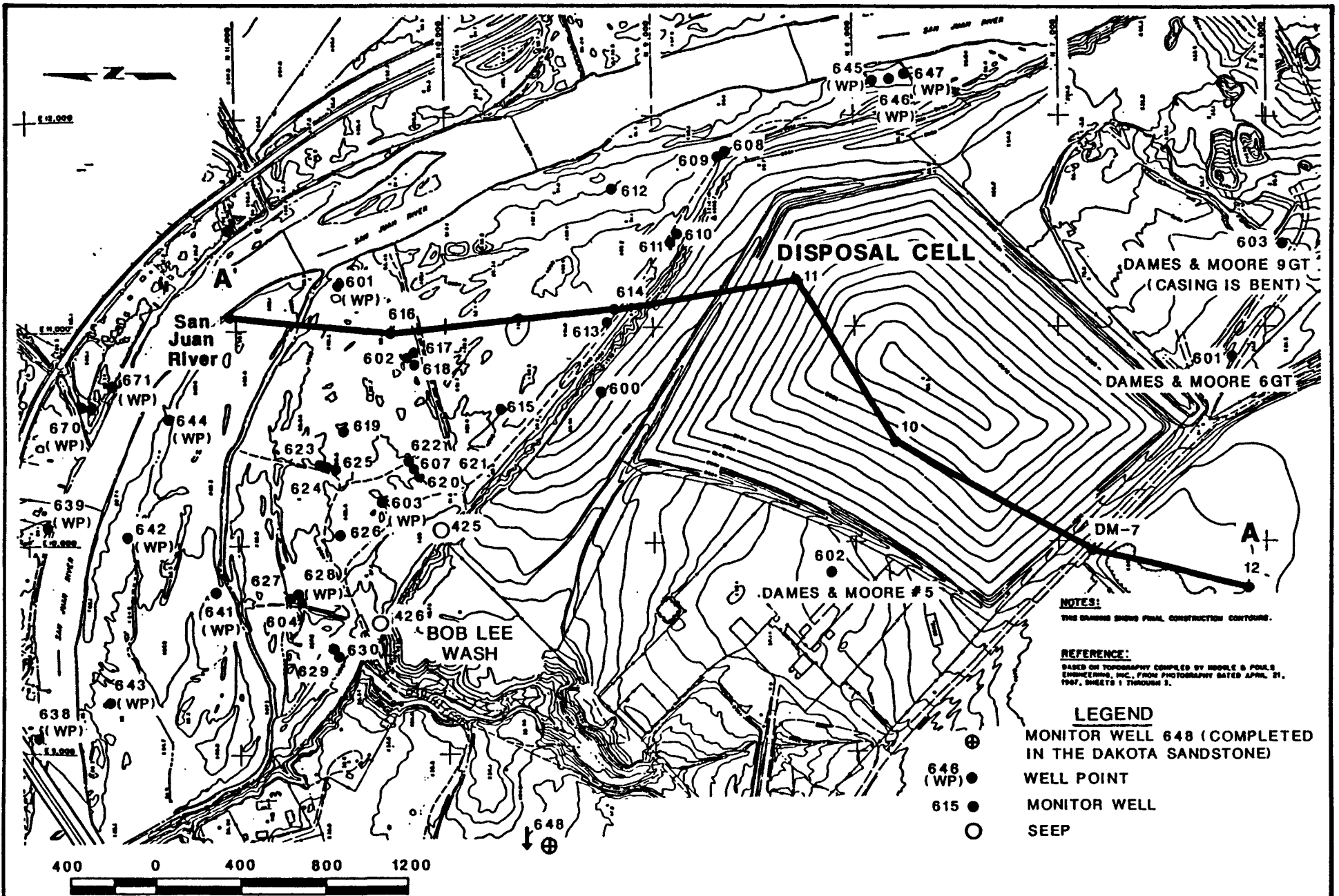
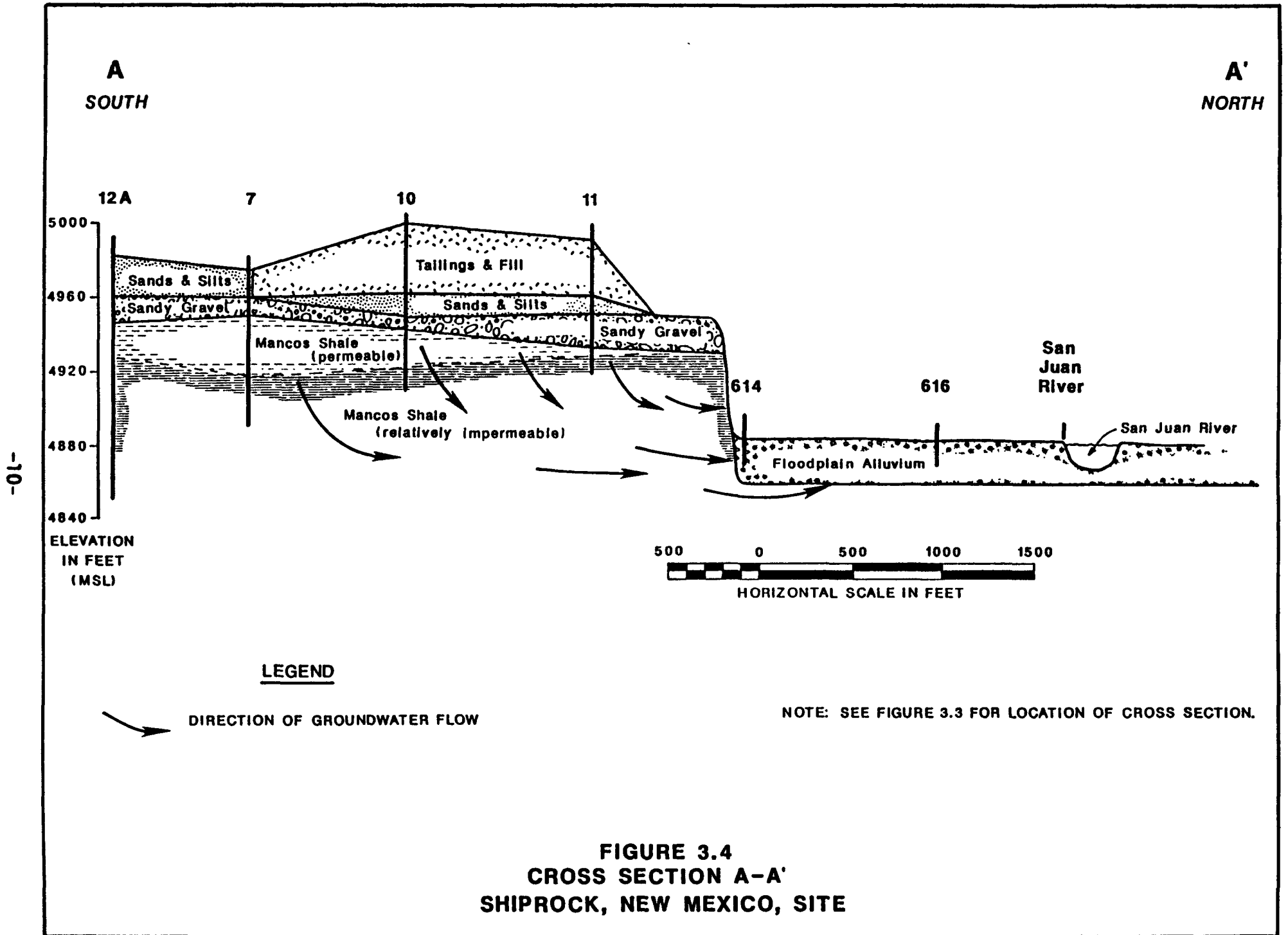


FIGURE 3.1
PLAN VIEW OF DISPOSAL CELL
SHIPROCK, NEW MEXICO, SITE



FIGURE 3.2
LOCATIONS OF FORMER TAILINGS PILES
AND UNLINED TAILINGS RAFFINATE LAGOONS
SHIPROCK, NEW MEXICO, SITE





**FIGURE 3.4
CROSS SECTION A-A'
SHIPROCK, NEW MEXICO, SITE**

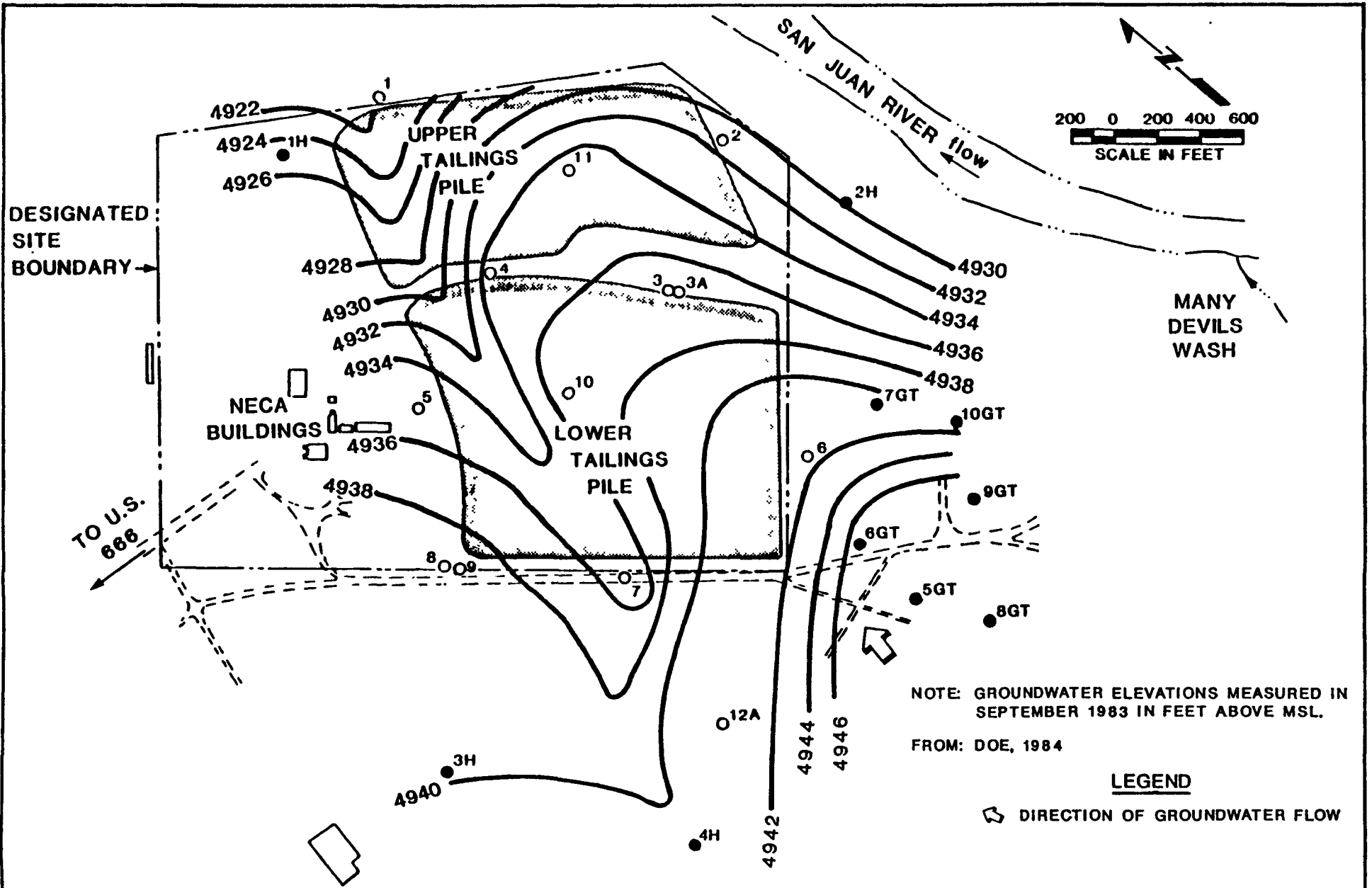


FIGURE 3.5
PHREATIC SURFACE IN ALLUVIAL TERRACE/WEATHERED MANCOS SHALE
BEFORE REMEDIAL ACTION AT THE SHIPROCK, NEW MEXICO, SITE

4.0 SAMPLING, ANALYSIS, AND INTERPRETATION

4.1 SAMPLING LOCATIONS

For purposes of characterization, the Shiprock site can be divided into the terrace alluvium/weathered Mancos Shale, where the disposal cell is situated, and the floodplain alluvium of the San Juan River. There are four monitor wells (600 through 603) on the terrace alluvium around the tailings embankment (Figure 3.3). The monitor wells in the floodplain alluvium are 601 through 647 (Figure 3.3). Monitor wells 601 through 633 in the floodplain alluvium are conventional monitor wells, while wells 638 through 647 are well points. All of the wells on the floodplain are less than 20 feet deep.

Water samples were collected from the seeps on January 8, 1991, and were submitted for analyses of major, minor, and trace constituents. The first seep, number 425, is located on the escarpment about 15 feet above the floodplain near the northwest corner of the disposal cell. Seep 425 is about 30 feet long and consists of a series of drips under an overhanging indurated sand lens within the Mancos Shale. The flow rate from the seepage face was approximately one to two liters per minute in January 1991. The second seep, number 426, is located where Bob Lee Wash enters the San Juan River floodplain. Seep 426 is approximately five feet above the floodplain and was flowing at a rate of about four liters per minute in January 1991. The seep locations currently are being surveyed and the data will be available at the UMTRA Project Office in Albuquerque, New Mexico.

To characterize historical groundwater quality at the Shiprock site, the DOE reviewed the processing site characterization report (DOE, 1984) and the final remedial action plan (RAP) for the Shiprock UMTRA Project site (DOE, 1985). These reports contain 1983 data from wells that were abandoned during the construction of the disposal cell. Both reports mention the presence of seeps in the escarpment northeast of the previous tailings piles. A map in the processing site characterization report indicates the presence of seeps in the area of the seeps 425 and 426 and at another location closer to the river northeast of the piles. Seeps 425 and 426 have substantially lower concentrations of major constituents than the seep that was sampled to the northeast of the tailings piles in 1983 (Table 4.1).

4.2 ANALYTICAL PARAMETERS

Because there are no analyses of lysimeter samples of tailings pore fluids, it was necessary to identify hazardous constituents and key constituents that may be related to uranium processing by reviewing descriptions of the process. The milling operation consisted of an oxidizing, acid leach (sulfuric acid, H_2SO_4 , and sodium chlorate, $NaClO_3$), followed by solvent extraction and uranium and vanadium precipitation (Merritt, 1971). Raffinate, which was discarded with the tailings, contained unrecoverable dissolved metals and metalloids as well as the organic materials used in solvent extraction, di(2-ethylhexyl) phosphoric acid (EHPA) and tributyl phosphate (TBP) in kerosene. Typically, tailings pore fluids and raffinates from milling processes contain high concentrations of arsenic,

molybdenum, nitrate, selenium, and uranium. The pH is acidic, and there are high concentrations of sodium, total organic carbon (TOC), total dissolved solids (TDS), and sulfate.

The seep samples were analyzed for total concentrations of the constituents listed in Table 8.1 of the Technical Approach Document (DOE, 1989), which includes all of the inorganic hazardous constituents that are included in Table 1 and Appendix I of 40 CFR 192, and in Appendix IX of 40 CFR 264. All sampling methods and data analyses conformed with Standard Operating Procedures developed for the UMTRA Project. Total concentrations were used as the basis for the risk analysis presented in Section 5.0.

4.3 ANALYTICAL RESULTS AND INTERPRETATION

4.3.1 Seep samples

Groundwater quality by location for seeps 425 and 426 is presented in Table 4.2. The pH of the seeps was 6.95 and 7.2, the TDS values were 8020 and 9540 milligrams per liter (mg/l), and sulfate concentrations were 4800 and 5670 mg/l. Seep samples plot as a sodium-magnesium-potassium sulfate type water on a trilinear diagram as shown on Figure 4.1. The seeps exceed the MCLs for nitrate, selenium, and uranium as shown on Table 4.3.

4.3.2 Terrace alluvial monitor well samples

Groundwater quality by parameter for terrace alluvium monitor wells is presented in Appendix A and the groundwater quality statistics for these monitor wells is presented in Table 4.4. The terrace alluvium monitor wells had a range in pH of 6.22 to 7.25 and TDS ranging from 16,250 to 32,700 mg/l. Sulfates ranged from 8450 to 18,100 mg/l. Samples from the terrace alluvium monitor wells plot as a sodium-magnesium-potassium sulfate type water, as shown on Figure 4.1. The terrace alluvium monitor wells exceed the MCLs for arsenic, cadmium, chromium, lead, molybdenum, net gross alpha, nitrate, radium-226 and-228, selenium, and uranium, as shown on Table 4.5.

The distribution of concentrations in the terrace alluvium groundwater indicates that the highest concentrations of key constituents (ammonium, nitrate, sulfate, and uranium) are found in monitor wells south of the disposal cell. The 1983 concentration of key constituents in the terrace alluvium is shown on Figure 4.2. Concentrations of sulfate and uranium were lower in most monitor wells in 1990, except in monitor well 600, which is the closest to the escarpment (Figure 4.3).

4.3.3 Comparison of seep and terrace monitor well samples

Generally, the seep samples and the terrace alluvium monitor wells have the same water-quality type, as shown on Figure 4.1. Table 4.2 lists the water quality data from the seeps, which can be compared with groundwater data for the alluvial terrace monitor wells in Attachment A and Table 4.4. Both the seeps and the alluvial terrace monitor wells contain nitrate, selenium, and uranium, which are related to uranium processing activities. Concentrations of most constituents (with the exception of ammonium and nitrate) are twice as high in the monitor wells as in the seeps. There is also a significant contribution of TOC (19 to 23 mg/l) from uranium processing activities in the seeps. Water from the seeps exceeds the MCLs for nitrate, selenium, and uranium; water from the terrace alluvium wells exceeds the MCLs for several additional constituents associated with uranium processing.

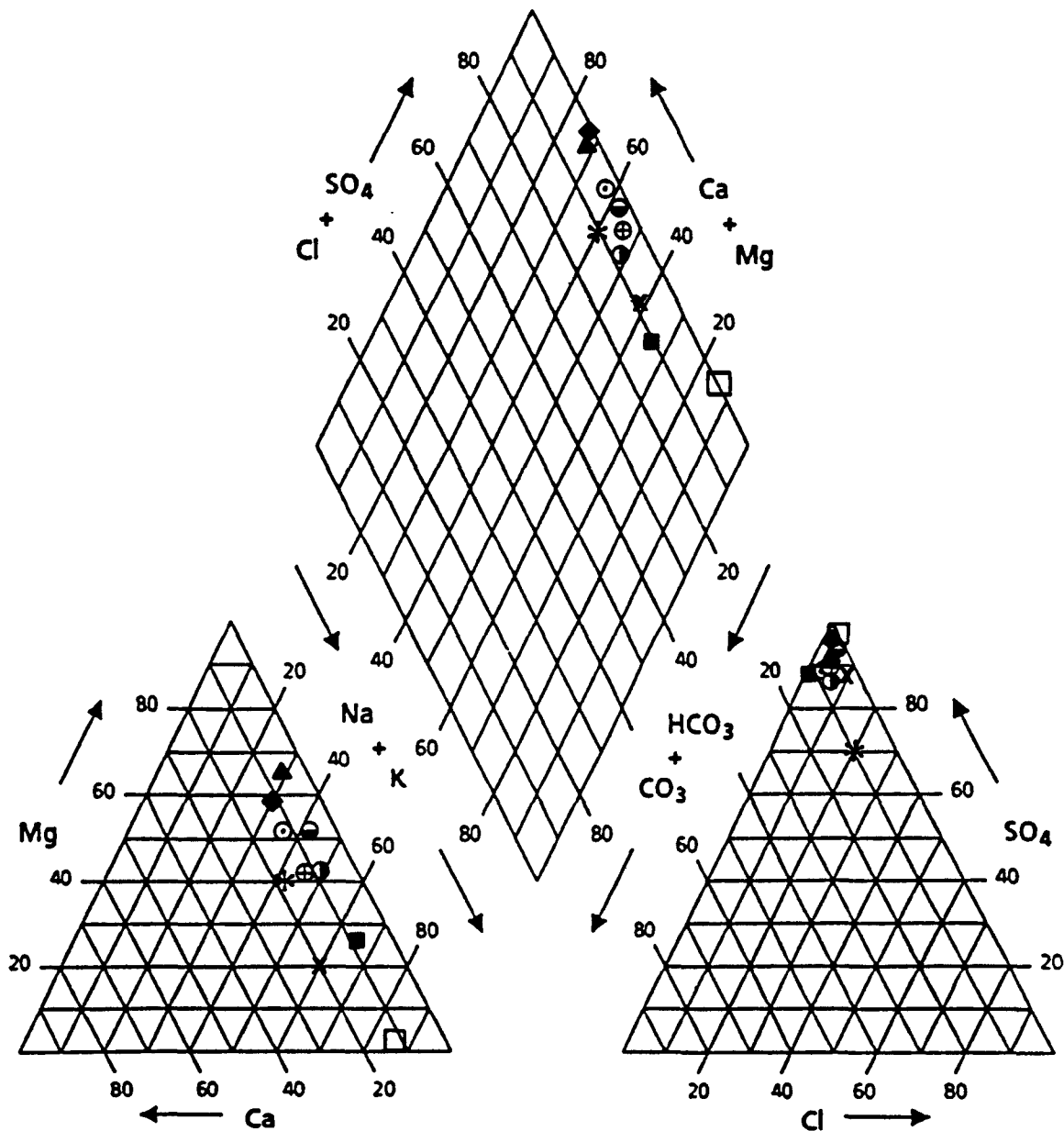
4.3.4 Floodplain alluvium samples

Groundwater quality by parameter for the floodplain alluvium monitor wells is presented in Appendix B and the groundwater quality statistics for these monitor wells are presented in Table 4.6. The floodplain alluvium monitor well samples had pH values ranging from 6.0 to 8.7, although most monitor wells had a pH of approximately 7. The TDS ranged from 543 to 47,233 mg/l, and sulfate ranged from 181 to 30,200 mg/l. Most of the samples plot as a sodium-magnesium-potassium sulfate type water, as shown on Figure 4.1. The percentage of cations plots within the range defined by the terrace alluvium monitor well samples. Groundwater in the floodplain alluvium exceeds the MCLs for arsenic, cadmium, chromium, lead, molybdenum, net gross alpha, nitrate, radium -226 and -228, selenium, silver, and uranium, as shown on Table 4.7. Maximum concentrations of sulfate, TDS, and uranium in floodplain monitor well samples are more than twice the concentrations in the seeps.

4.3.5 Dakota Sandstone well samples

Groundwater quality by location for the Dakota Sandstone well 648 is presented in Table 4.8. Groundwater quality statistics by parameter are presented in Table 4.9. The Dakota Sandstone well has a pH of approximately 8, with an average TDS of 3100 mg/l and a sulfate concentration of 2050. Samples plot as a sodium sulfate type water on a trilinear diagram (Figure 4.1). Samples from the Dakota Sandstone well exceeded the MCLs for chromium, lead, molybdenum and selenium in one of three samples, as shown on Table 4.10.

The discharge of artesian flow from the Dakota Sandstone well into Bob Lee Wash probably does not contribute water to the seeps, because the well discharge is on the other side of the wash from the seeps. Furthermore, there is a high percentage of sodium and no elevated levels of uranium or nitrate in the samples from the Dakota Sandstone well, which is not typical of the seeps.



LEGEND

- | | | | | | | | | | | | |
|---|---|---------|--|---|------------|--|---|-------|---|---|-------------|
| <ul style="list-style-type: none"> ■ 600 ◆ 601 ▲ 603 | } | TERRACE | <ul style="list-style-type: none"> ● 614 ● 615 ⊙ 620 ● 624 | } | FLOODPLAIN | <ul style="list-style-type: none"> x 425 * 426 | } | SEEPS | <ul style="list-style-type: none"> □ 648 | } | DAKOTA WELL |
| (10/90 DATA) | | | (10/90 DATA) | | | (1/91 DATA) | | | (9/87 DATA) | | |

NOTE: DATA IN PERCENT EQUIVALENTS.

FIGURE 4.1
TRILINEAR DIAGRAM OF SELECTED
WELL AND SEEP SAMPLES
SHIPROCK, NEW MEXICO

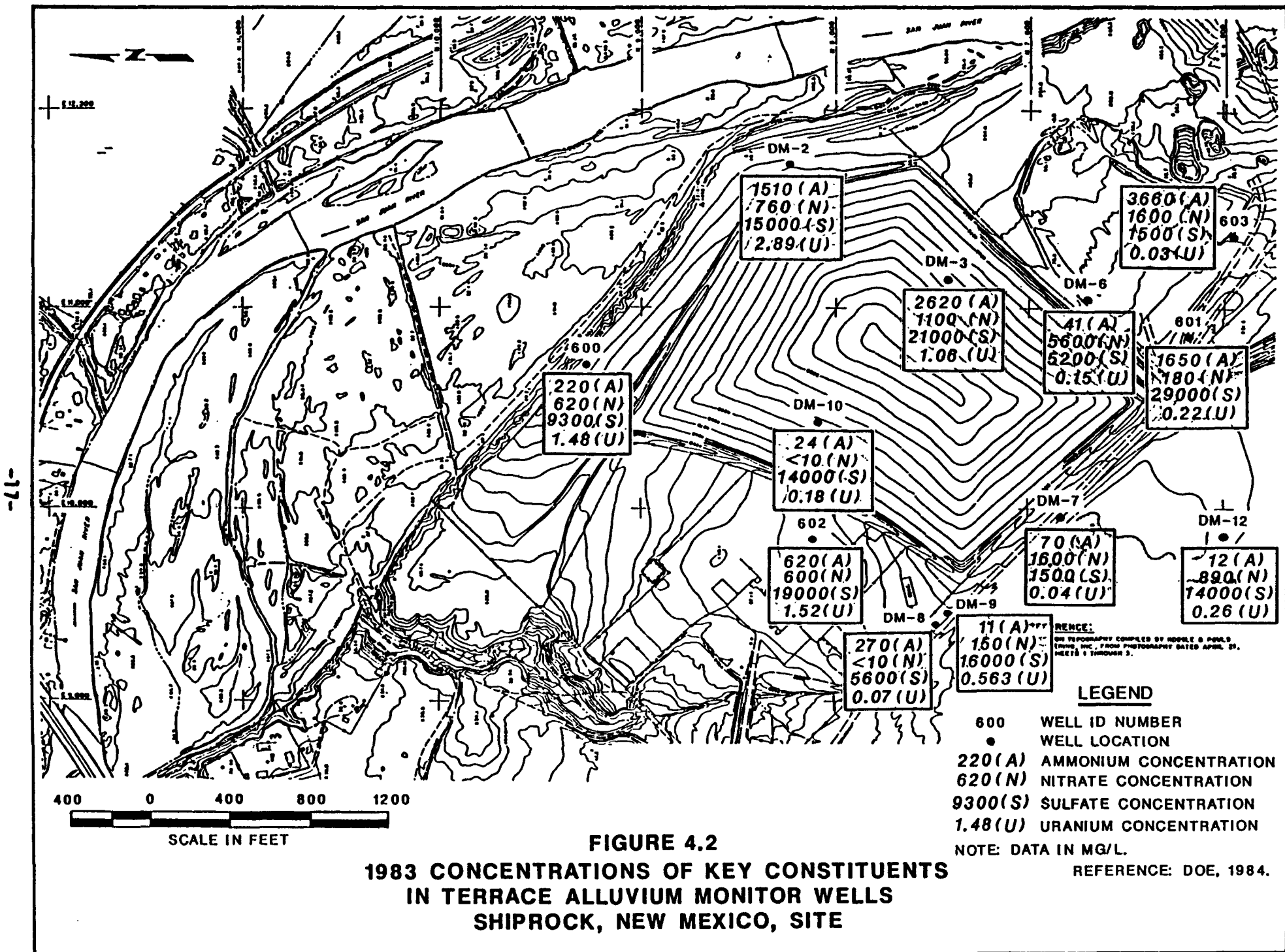


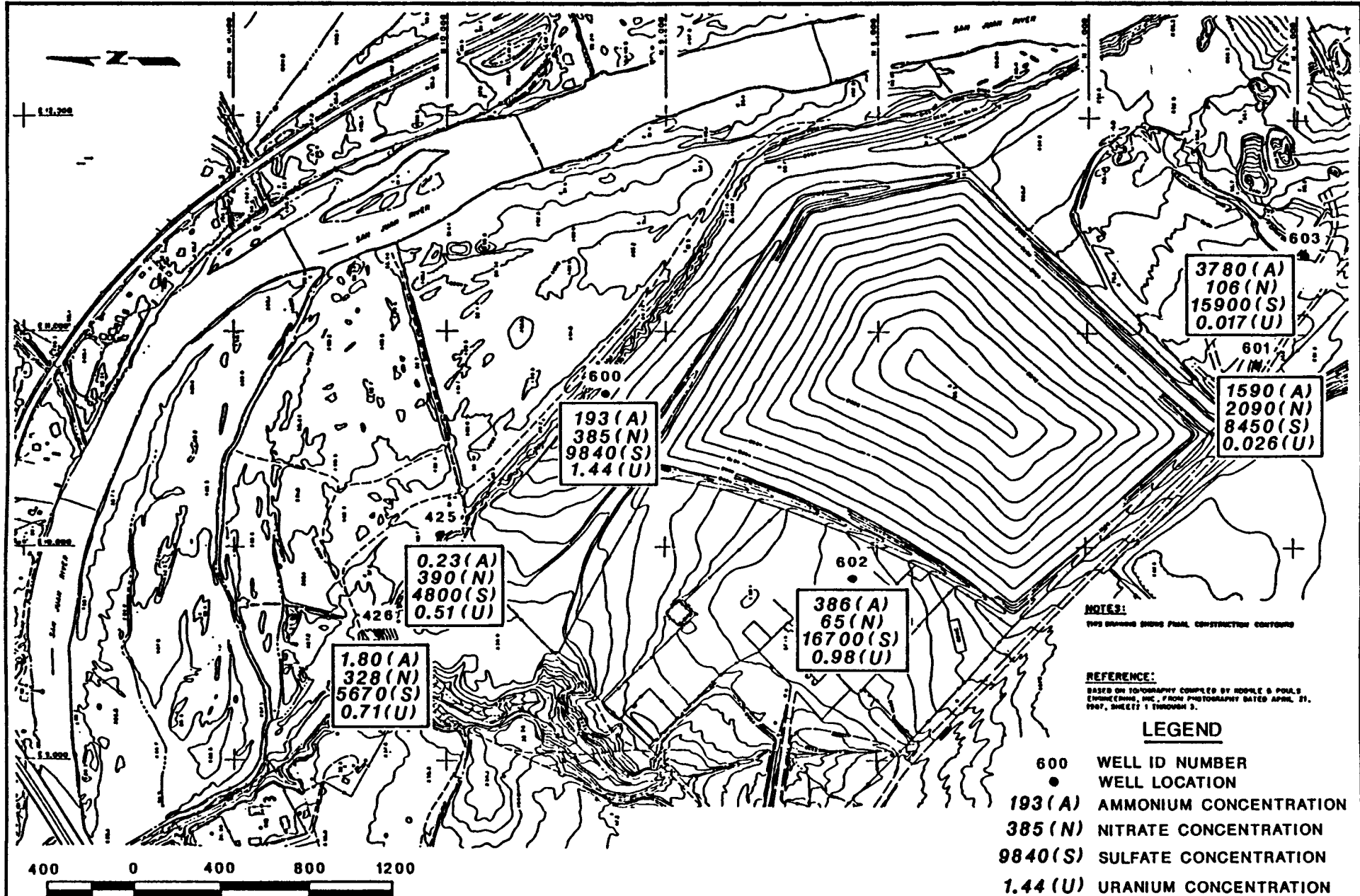
FIGURE 4.2
1983 CONCENTRATIONS OF KEY CONSTITUENTS
IN TERRACE ALLUVIUM MONITOR WELLS
SHIPROCK, NEW MEXICO, SITE

REFERENCE:
 SOIL TOPOGRAPHY COMPILED BY HODDLE & POOLS,
 TERRELL, INC., FROM PHOTOGRAPHY DATED APRIL 25,
 1962, SHEETS 1 THROUGH 5.

LEGEND

600 WELL ID NUMBER
 ● WELL LOCATION
 220(A) AMMONIUM CONCENTRATION
 620(N) NITRATE CONCENTRATION
 9300(S) SULFATE CONCENTRATION
 1.48(U) URANIUM CONCENTRATION

NOTE: DATA IN MG/L.
 REFERENCE: DOE, 1984.



NOTES:
THIS DRAWING SHOWS FINAL CONSTRUCTION CONTOURS

REFERENCE:
BASED ON TOPOGRAPHY COMPILED BY ROOPE & POOLS ENGINEERING, INC., FROM PHOTOGRAPHY DATED APRIL 21, 1967, SHEETS 1 THROUGH 3.

LEGEND

- 600 WELL ID NUMBER
- WELL LOCATION
- 193 (A) AMMONIUM CONCENTRATION
- 385 (N) NITRATE CONCENTRATION
- 9840 (S) SULFATE CONCENTRATION
- 1.44 (U) URANIUM CONCENTRATION

FIGURE 4.3
1990/1991 CONCENTRATIONS OF KEY CONSTITUENTS
IN TERRACE ALLUVIUM MONITOR WELLS
SHIPROCK, NEW MEXICO, SITE

NOTE: DATA IN MG/L.

Table 4.1 Major constituent concentrations^a from Shiprock, New Mexico, seeps

Constituent	Seep 425 ^b	Seep 426 ^b	1983 Seep ^c
Ammonium	0.23	1.80	140.
Magnesium	342.	787.	2200.
Potassium	19.	30.	160.
Sodium	1670.	1510.	4100.
Chloride	273.	328.	650.
Sulfate	4800.	5670.	14000.
Nitrate	290.	328.	3800.

* Note: ^a All concentrations are in mg/l.
^b Seeps 425 and 426 were sampled January 8, 1991.
^c 1983 seep is documented in DOE, 1984.

TABLE 4.2 GROUNDWATER QUALITY DATA BY LOCATION
SHIPROCK ESCARPMENT SEEPS, SHIPROCK, NEW MEXICO, SITE
SITE: SHP01 SHIPROCK
LOCATION: 0425
NORTH COORDINATE: UNKNOWN
EAST COORDINATE: UNKNOWN
01/08/91 TO 01/08/91
REPORT DATE: 05/17/91

FORMATION OF COMPLETION: NO RECOVERY OF DATA FOR CLASSIFYING (NR)
HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	01/08/91	N001	MG/L CaCO3		766.		-	-
ALUMINUM (TOTAL)	01/08/91	N001	MG/L		0.85	#	0.05	-
AMMONIUM (TOTAL)	01/08/91	N001	MG/L		0.23	#H	0.01	-
ANTIMONY (TOTAL)	01/08/91	N001	MG/L	<	0.02	#I	0.02	-
ARSENIC (TOTAL)	01/08/91	N001	MG/L	<	0.03	#I	0.03	-
BARIUM (TOTAL)	01/08/91	N001	MG/L		0.01	#	0.01	-
BERYLLIUM (TOTAL)	01/08/91	N001	MG/L	<	0.005	#	0.005	-
CADMIUM (TOTAL)	01/08/91	N001	MG/L	<	0.001	#	0.001	-
CALCIUM (TOTAL)	01/08/91	N001	MG/L		513.	#	0.5	-
CHLORIDE (TOTAL)	01/08/91	N001	MG/L		273.	#	0.5	-
CHROMIUM (TOTAL)	01/08/91	N001	MG/L	<	0.01	#	0.01	-
COBALT (TOTAL)	01/08/91	N001	MG/L	<	0.03	#	0.03	-
COPPER (TOTAL)	01/08/91	N001	MG/L	<	0.01	#	0.01	-
FLUORIDE (TOTAL)	01/08/91	N001	MG/L		1.0	#H	0.1	-
IRON (TOTAL)	01/08/91	N001	MG/L		1.66	#	0.03	-
LEAD (TOTAL)	01/08/91	N001	MG/L		0.016	#	0.005	-
MAGNESIUM (TOTAL)	01/08/91	N001	MG/L		342.	#	0.5	-
MANGANESE (TOTAL)	01/08/91	N001	MG/L		0.11	#	0.01	-
MERCURY (TOTAL)	01/08/91	N001	MG/L	<	0.0002	#	0.0002	-
MOLYBDENUM (TOTAL)	01/08/91	N001	MG/L	<	0.01	#	0.01	-
NICKEL (TOTAL)	01/08/91	N001	MG/L	<	0.04	#	0.04	-
NITRATE (TOTAL)	01/08/91	N001	MG/L		290.	#H	1.0	-
PH	01/08/91	N001	SU		7.22		-	-
PHOSPHATE (TOTAL)	01/08/91	N001	MG/L		0.6	#	0.1	-
POTASSIUM (TOTAL)	01/08/91	N001	MG/L		19.	#	5.	-
SELENIUM (TOTAL)	01/08/91	N001	MG/L		0.20	#	0.10	-
SILICA - SiO2 (TOTAL)	01/08/91	N001	MG/L		13.6	#	0.1	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
OTHER PARAMETER VALUE FLAGS: # - THE DATA HAS NOT YET UNDERGONE QUALITY CONTROL TESTS.
H - HOLDING TIMES EXCEEDED
I - INTERFERENCE-DILUTION OF SAMPLE

TABLE 4.2 GROUNDWATER QUALITY DATA BY LOCATION
SHIPROCK ESCARPMENT SEEPS, SHIPROCK, NEW MEXICO, SITE
SITE: SHP01 SHIPROCK
LOCATION: 0425
NORTH COORDINATE: UNKNOWN
EAST COORDINATE: UNKNOWN
01/08/91 TO 01/08/91
REPORT DATE: 05/17/91

FORMATION OF COMPLETION: NO RECOVERY OF DATA FOR CLASSIFYING (NR)
HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SILVER (TOTAL)	01/08/91	N001	MG/L	<	0.01	#	0.01	-
SODIUM (TOTAL)	01/08/91	N001	MG/L		1670.	#	5.	-
STRONTIUM (TOTAL)	01/08/91	N001	MG/L		8.08	#	0.01	-
SULFATE (TOTAL)	01/08/91	N001	MG/L		4800.	#H	10.	-
TEMPERATURE	01/08/91	N001	C - DEGREE		12.8		-	-
TOTAL DISSOLVED SOLIDS	01/08/91	N001	MG/L		8020.	#	10.	-
TOTAL ORGANIC CARBON	01/08/91	N001	MG/L		23.	&H	1.	-
URANIUM (TOTAL)	01/08/91	N001	MG/L		0.509	#	0.001	-
VANADIUM (TOTAL)	01/08/91	N001	MG/L	<	0.01	#	0.01	-
ZINC (TOTAL)	01/08/91	N001	MG/L		0.006	#	0.005	-

PARAMETER VALUE INDICATOR (PVI):
OTHER PARAMETER VALUE FLAGS:

< - LESS THAN DETECTION LIMIT
- THE DATA HAS NOT YET UNDERGONE QUALITY CONTROL TESTS.
& - THE DATA FAILED THE ACCURACY OF KNOWN QUALITY CONTROL TEST.
H - HOLDING TIMES EXCEEDED

TABLE 4.2 GROUNDWATER QUALITY DATA BY LOCATION
SHIPROCK ESCARPMENT SEEPS, SHIPROCK, NEW MEXICO, SITE
SITE: SHP01 SHIPROCK
LOCATION: 0426
NORTH COORDINATE: UNKNOWN
EAST COORDINATE: UNKNOWN
01/08/91 TO 01/08/91
REPORT DATE: 05/17/91

FORMATION OF COMPLETION: NO RECOVERY OF DATA FOR CLASSIFYING (NR)
HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	01/08/91	N001	MG/L CACO3		485.		-	-
ALUMINUM (TOTAL)	01/08/91	N001	MG/L		0.05	#	0.05	-
AMMONIUM (TOTAL)	01/08/91	N001	MG/L		1.80	#H	0.01	-
ANTIMONY (TOTAL)	01/08/91	N001	MG/L	<	0.02	#I	0.02	-
ARSENIC (TOTAL)	01/08/91	N001	MG/L	<	0.03	#I	0.03	-
BARIUM (TOTAL)	01/08/91	N001	MG/L	<	0.01	#	0.01	-
BERYLLIUM (TOTAL)	01/08/91	N001	MG/L	<	0.005	#	0.005	-
CADMIUM (TOTAL)	01/08/91	N001	MG/L	<	0.001	#	0.001	-
CALCIUM (TOTAL)	01/08/91	N001	MG/L		521.	#	0.5	-
CHLORIDE (TOTAL)	01/08/91	N001	MG/L		328.	#	0.5	-
CHROMIUM (TOTAL)	01/08/91	N001	MG/L	<	0.01	#	0.01	-
COBALT (TOTAL)	01/08/91	N001	MG/L	<	0.03	#	0.03	-
COPPER (TOTAL)	01/08/91	N001	MG/L		0.01	#	0.01	-
FLUORIDE (TOTAL)	01/08/91	N001	MG/L		0.6	#H	0.1	-
IRON (TOTAL)	01/08/91	N001	MG/L		0.03	#	0.03	-
LEAD (TOTAL)	01/08/91	N001	MG/L		0.009	#	0.005	-
MAGNESIUM (TOTAL)	01/08/91	N001	MG/L		787.	#	0.5	-
MANGANESE (TOTAL)	01/08/91	N001	MG/L		0.26	#	0.01	-
MERCURY (TOTAL)	01/08/91	N001	MG/L	<	0.0002	#	0.0002	-
MOLYBDENUM (TOTAL)	01/08/91	N001	MG/L	<	0.01	#	0.01	-
NICKEL (TOTAL)	01/08/91	N001	MG/L		0.04	#	0.04	-
NITRATE (TOTAL)	01/08/91	N001	MG/L		328.	#H	1.0	-
PH	01/08/91	N001	SU		6.95		-	-
PHOSPHATE (TOTAL)	01/08/91	N001	MG/L		0.4	#	0.1	-
POTASSIUM (TOTAL)	01/08/91	N001	MG/L		30.	#	5.	-
SELENIUM (TOTAL)	01/08/91	N001	MG/L	<	0.05	#I	0.05	-
SILICA - SiO2 (TOTAL)	01/08/91	N001	MG/L		12.8	#	0.1	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
OTHER PARAMETER VALUE FLAGS: # - THE DATA HAS NOT YET UNDERGONE QUALITY CONTROL TESTS.
N - HOLDING TIMES EXCEEDED
I - INTERFERENCE-DILUTION OF SAMPLE

TABLE 4.2 GROUNDWATER QUALITY DATA BY LOCATION
SHIPROCK ESCARPMENT SEEPS, SHIPROCK, NEW MEXICO, SITE
SITE: SHP01 SHIPROCK
LOCATION: 0426
NORTH COORDINATE: UNKNOWN
EAST COORDINATE: UNKNOWN
01/08/91 TO 01/08/91
REPORT DATE: 05/17/91

FORMATION OF COMPLETION: NO RECOVERY OF DATA FOR CLASSIFYING (NR)
HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SILVER (TOTAL)	01/08/91	N001	MG/L	<	0.01	#	0.01	-
SODIUM (TOTAL)	01/08/91	N001	MG/L		1510.	#	5.	-
STRONTIUM (TOTAL)	01/08/91	N001	MG/L		7.95	#	0.01	-
SULFATE (TOTAL)	01/08/91	N001	MG/L		5670.	#H	10.	-
TEMPERATURE	01/08/91	N001	C - DEGREE		11.9		-	-
TOTAL DISSOLVED SOLIDS	01/08/91	N001	MG/L		9540.	#	10.	-
TOTAL ORGANIC CARBON	01/08/91	N001	MG/L		19.	&H	1.	-
URANIUM (TOTAL)	01/08/91	N001	MG/L		0.712	#	0.001	-
VANADIUM (TOTAL)	01/08/91	N001	MG/L	<	0.01	#	0.01	-
ZINC (TOTAL)	01/08/91	N001	MG/L	<	0.005	#	0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
OTHER PARAMETER VALUE FLAGS: # - THE DATA HAS NOT YET UNDERGONE QUALITY CONTROL TESTS.
& - THE DATA FAILED THE ACCURACY OF KNOWN QUALITY CONTROL TEST.
H - HOLDING TIMES EXCEEDED

DATA FILE NAME: M:\DART\SHPO1\GWR10002.DAT

TABLE 4.3 GROUNDWATER QUALITY MEASUREMENTS EXCEEDING MAXIMUM CONCENTRATION LIMITS, SHIPROCK ESCARPMENT SEEPS, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 01/08/91 TO 01/08/91
 REPORT DATE: 05/17/91

PARAMETER NAME	TOTAL # OF SAMP.	UNITS OF MEASURE	MAX CON. LIMIT	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	VALUE EXCEEDING MAX. CON. LIMIT	PARAMETER UNCERTAINTY
ARSENIC	0	MG/L	0.05000	-	-	-	-	-	-	-
ARSENIC (TOTAL)	0	MG/L	0.05000	-	-	-	-	-	-	-
BARIUM	0	MG/L	1.00000	-	-	-	-	-	-	-
BARIUM (TOTAL)	2	MG/L	1.00000	-	-	-	-	-	-	-
CADMIUM	0	MG/L	0.01000	-	-	-	-	-	-	-
CADMIUM (TOTAL)	2	MG/L	0.01000	-	-	-	-	-	-	-
CHROMIUM	0	MG/L	0.05000	-	-	-	-	-	-	-
CHROMIUM (TOTAL)	2	MG/L	0.05000	-	-	-	-	-	-	-
GROSS ALPHA	0	PCI/L	15.00000	-	-	-	-	-	-	-
GROSS ALPHA (TOTAL)	0	PCI/L	15.00000	-	-	-	-	-	-	-
LEAD	0	MG/L	0.05000	-	-	-	-	-	-	-
LEAD (TOTAL)	2	MG/L	0.05000	-	-	-	-	-	-	-
MERCURY	0	MG/L	0.00200	-	-	-	-	-	-	-
MERCURY (TOTAL)	2	MG/L	0.00200	-	-	-	-	-	-	-
MOLYBDENUM	0	MG/L	0.10000	-	-	-	-	-	-	-
MOLYBDENUM (TOTAL)	2	MG/L	0.10000	-	-	-	-	-	-	-
NET GROSS ALPHA *	0	PCI/L	15.00000	-	-	-	-	-	-	-
NET GROSS ALPHA (TOTAL) **	0	PCI/L	15.00000	-	-	-	-	-	-	-
NITRATE	0	MG/L	44.00000	-	-	-	-	-	-	-

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

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

TABLE 4.3 GROUNDWATER QUALITY MEASUREMENTS EXCEEDING MAXIMUM CONCENTRATION LIMITS, SHIPROCK ESCARPMENT SEEPS, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 01/08/91 TO 01/08/91
 REPORT DATE: 05/17/91

PARAMETER NAME	TOTAL # OF SAMP.	UNITS OF MEASURE	MAX CON. LIMIT	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	VALUE EXCEEDING MAX. CON. LIMIT	PARAMETER UNCERTAINTY
NITRATE (TOTAL)	2	MG/L	44.00000	0425 0426	01/08/91 01/08/91	N001 N001	NR NR	N N	290. 328.	- -
RA-226 & RA-228	0	PCI/L	5.00000	-	-	-	-	-	-	-
RA-226 & RA-228 (TOTAL)	0	PCI/L	5.00000	-	-	-	-	-	-	-
SELENIUM	0	MG/L	0.01000	-	-	-	-	-	-	-
SELENIUM (TOTAL)	2	MG/L	0.01000	0425 0426	01/08/91 01/08/91	N001 N001	NR NR	N N	0.20 0.05	- -
SILVER	0	MG/L	0.05000	-	-	-	-	-	-	-
SILVER (TOTAL)	2	MG/L	0.05000	-	-	-	-	-	-	-
URANIUM	0	MG/L	0.04400	-	-	-	-	-	-	-
URANIUM (TOTAL)	2	MG/L	0.04400	0425 0426	01/08/91 01/08/91	N001 N001	NR NR	N N	0.509 0.712	- -

FORMATION OF COMPLETION CODE:
 NR - NO RECOVERY OF DATA FOR CLASSIFYING

FLOW RELATIONSHIP CODE:
 N - UNKNOWN

DATA FILE NAME: M:\DART\SHPO1\GMQ10000.DAT

TABLE 4.4 GROUNDWATER QUALITY STATISTICS BY PARAMETER
SHIPROCK ALLUVIAL TERRACE MONITOR WELLS, SHIPROCK, NEW MEXICO, SITE
SITE: SHP02 SHIPROCK (TAILINGS AREA)
10/11/88 TO 10/12/90
REPORT DATE: 05/17/91

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							
13	294.0000	2293.0000	1489.0000	1294.3846	817.5769	0.6316	0.0	686.4544	1902.3148	NORMAL	
ALUMINUM				MG/L							
10	0.0250	0.3000	0.0500	NA	NA	NA	80.0	0.0500	0.1200	NONPARAMETRIC	2
AMMONIUM				MG/L							
13	0.6130	3780.0000	600.0000	406.9760	9.6374	NA	0.0	75.4955	2193.8979	LOGNORMAL	7,8
ANTIMONY				MG/L							
13	0.0070	0.1060	0.0280	NA	NA	NA	23.1	0.0100	0.0980	NONPARAMETRIC	2
ARSENIC				MG/L							
13	0.0050	0.3100	0.0300	NA	NA	NA	30.8	0.0200	0.0900	NONPARAMETRIC	2
BARIUM				MG/L							
13	0.0050	0.0500	0.0500	NA	NA	NA	84.6	0.0100	0.0500	NONPARAMETRIC	2
BERYLLIUM				MG/L							
10	0.0025	0.0050	0.0050	NA	NA	NA	100.0	0.0025	0.0050	NONPARAMETRIC	2
BORON				MG/L							
10	0.0500	1.1000	0.7000	0.6210	0.3971	0.6395	10.0	0.2667	0.9753	NORMAL	
BROMIDE				MG/L							
3	0.0500	0.1000	0.0500	NA	NA	NA	66.7	NA	NA	UNKNOWN	1
CADMIUM				MG/L							
13	0.0005	0.1800	0.0110	NA	NA	NA	23.1	0.0010	0.1110	NONPARAMETRIC	2

* 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.

TABLE 4.4 GROUNDWATER QUALITY STATISTICS BY PARAMETER
 SHIPROCK ALLUVIAL TERRACE MONITOR WELLS, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP02 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/17/91

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								
13	354.0000	468.0000	367.0000		380.8462	33.2111	0.0872	0.0	356.1512	405.5411	NORMAL	
CHLORIDE				MG/L								
13	79.0000	820.0000	570.0000		543.6923	230.9846	0.4248	0.0	371.9378	715.4468	NORMAL	
CHROMIUM				MG/L								
13	0.0050	0.2400	0.0050		NA	NA	NA	76.9	0.0050	0.2400	NONPARAMETRIC	2
COBALT				MG/L								
13	0.0150	0.2900	0.0250		NA	NA	NA	61.5	0.0250	0.1300	NONPARAMETRIC	2
COPPER				MG/L								
13	0.0100	0.1400	0.0200		NA	NA	NA	30.8	0.0100	0.1000	NONPARAMETRIC	2
CYANIDE				MG/L								
3	0.0050	0.0050	0.0050		NA	NA	NA	100.0	NA	NA	UNKNOWN	1
FLUORIDE				MG/L								
13	0.1000	1.9000	0.5000		0.7308	0.5950	0.8142	0.0	0.2884	1.1732	NORMAL	
GROSS ALPHA				PCI/L								
6	80.0000	1200.0000	1050.0000		830.0000	473.9198	0.5710	0.0	178.9501	1481.0499	NORMAL	
GROSS BETA				PCI/L								
6	230.0000	600.0000	440.0000		420.0000	154.2725	0.3673	0.0	208.0673	631.9327	NORMAL	
IRON				MG/L								
13	0.0150	0.9500	0.1600		NA	NA	NA	23.1	0.0150	0.2800	NONPARAMETRIC	2

* 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.

TABLE 4.4 GROUNDWATER QUALITY STATISTICS BY PARAMETER
 SHIPROCK ALLUVIAL TERRACE MONITOR WELLS, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP02 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/17/91

PARAMETER NAME				UNITS	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 95% CONFIDENCE INTERVAL *		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MINIMUM					MAXIMUM *			
LEAD				MG/L								
13	0.0050	0.0250	0.0100		NA	NA	NA	69.2	0.0050	0.0250	NONPARAMETRIC	2
LEAD-210				PCI/L								
3	0.7500	1.5000	1.4000		NA	NA	NA	33.3	NA	NA	UNKNOWN	1
MAGNESIUM				MG/L								
13	466.0000	2940.0000	1510.0000		1610.0769	932.6423	0.5793	0.0	916.5869	2303.5670	NORMAL	
MANGANESE				MG/L								
10	0.6200	68.8000	1.6650		4.6744	6.5923	NA	0.0	0.8691	25.1405	LOGNORMAL	7,8
MERCURY				MG/L								
13	0.0001	0.0014	0.0001		NA	NA	NA	69.2	0.0001	0.0005	NONPARAMETRIC	2
MOLYBDENUM				MG/L								
13	0.0050	0.4500	0.0300		NA	NA	NA	46.2	0.0050	0.3400	NONPARAMETRIC	2
NET GROSS ALPHA ***				PCI/L								
6	-15.2800	411.1000	161.1050		NA	NA	NA	0.0	-15.2800	411.1000	NONPARAMETRIC	9,6
NICKEL				MG/L								
10	0.0200	0.4000	0.0550		NA	NA	NA	30.0	0.0200	0.3400	NONPARAMETRIC	2
NITRATE				MG/L								
13	55.0000	3300.0000	470.0000		436.8639	4.4194	NA	0.0	144.6994	1318.9419	LOGNORMAL	7,8

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

* 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.

3) 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.

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

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

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

TABLE 4.4 GROUNDWATER QUALITY STATISTICS BY PARAMETER
 SHIPROCK ALLUVIAL TERRACE MONITOR WELLS, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP02 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/17/91

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 *			
NITRITE AND NITRATE				MG/L								
3	12.0000	450.0000	190.0000		NA	NA	0.0	NA	NA	UNKNOWN	1	
PHOSPHATE				MG/L								
13	0.0500	0.6000	0.0500		NA	NA	53.8	0.0500	0.6000	NONPARAMETRIC	2	
POLONIUM-210				PCI/L								
3	0.4000	3.1000	1.7000		NA	NA	0.0	NA	NA	UNKNOWN	1	
POTASSIUM				MG/L								
13	56.0000	353.0000	161.0000		161.2538	91.3597	0.5666	0.0	93.3210	229.1867	NORMAL	
RADIUM-226				PCI/L								
13	0.2000	4.9000	0.9000		1.5846	1.5529	0.9800	0.0	0.4299	2.7393	NORMAL	
RADIUM-228				PCI/L								
13	0.5000	10.0000	3.2000		4.4769	3.1815	0.7106	7.7	2.1112	6.8426	NORMAL	
SELENIUM				MG/L								
13	0.0250	0.7960	0.1280		0.1425	2.9344	NA	7.7	0.0640	0.3174	LOGNORMAL	7,8
SILICA - SiO2				MG/L								
10	3.0000	15.0000	10.0000		9.7800	3.2598	0.3333	0.0	6.8720	12.6880	NORMAL	
SILVER				MG/L								
13	0.0050	0.0300	0.0050		NA	NA	NA	76.9	0.0050	0.0200	NONPARAMETRIC	2
SODIUM				MG/L								
13	552.0000	4066.0000	2750.0000		2467.5385	1128.3898	0.4573	0.0	1628.4954	3306.5816	NORMAL	

- * 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.

TABLE 4.4 GROUNDWATER QUALITY STATISTICS BY PARAMETER
SHIPROCK ALLUVIAL TERRACE MONITOR WELLS, SHIPROCK, NEW MEXICO, SITE
SITE: SHP02 SHIPROCK (TAILINGS AREA)
10/11/88 TO 10/12/90
REPORT DATE: 05/17/91

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 *			
SPECIFIC CONDUCTANCE				UMHO/CM								
13	9250.0000	25000.0000	13400.0000	15153.8462	4120.4501	0.2719	0.0	12089.9799	18217.7124	NORMAL		
STRONTIUM				MG/L								
13	2.0200	15.6000	7.8400	7.1815	4.1444	0.5771	0.0	4.0999	10.2632	NORMAL		
SULFATE				MG/L								
13	8450.0000	18100.0000	13900.0000	13593.8462	3655.5267	0.2689	0.0	10875.6856	16312.0067	NORMAL		
SULFIDE				MG/L								
3	0.0500	0.0500	0.0500	NA	NA	NA	100.0	NA	NA	UNKNOWN	1	
TEMPERATURE				C - DEGREE								
13	15.0000	18.0000	16.2000	16.2077	1.0095	0.0623	0.0	15.4570	16.9583	NORMAL		
THALLIUM				MG/L								
10	0.0100	0.0500	0.0250	NA	NA	NA	30.0	0.0200	0.0400	NONPARAMETRIC	2	
THORIUM-230				PCI/L								
6	0.0500	0.5000	0.4000	NA	NA	NA	66.7	0.0500	0.5000	NONPARAMETRIC	2,6	
TIN				MG/L								
10	0.0025	0.0980	0.0220	NA	NA	NA	70.0	0.0025	0.0500	NONPARAMETRIC	2	
TOTAL DISSOLVED SOLIDS				MG/L								
13	11600.0000	32700.0000	19800.0000	21238.4615	6565.6351	0.3091	0.0	16356.4154	26120.5077	NORMAL		
TOTAL ORGANIC CARBON				MG/L								
3	93.5000	417.0000	314.0000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	

* 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.

TABLE 4.4 GROUNDWATER QUALITY STATISTICS BY PARAMETER
SHIPROCK ALLUVIAL TERRACE MONITOR WELLS, SHIPROCK, NEW MEXICO, SITE
SITE: SHP02 SHIPROCK (TAILINGS AREA)
10/11/88 TO 10/12/90
REPORT DATE: 05/17/91

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			
URANIUM				MG/L								
13	0.0170	1.5700	0.9750		0.7802	0.6478	0.8304	0.0	0.2984	1.2619	NORMAL	
VANADIUM				MG/L								
13	0.0050	0.2000	0.0600		NA	NA	NA	23.1	0.0050	0.1800	NONPARAMETRIC	2
ZINC				MG/L								
13	0.0025	0.5990	0.0480		NA	NA	NA	30.8	0.0025	0.4350	NONPARAMETRIC	2

* 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\SHPO2\GWQ10003.DAT

TABLE 4.5 GROUNDWATER QUALITY MEASUREMENTS EXCEEDING MAXIMUM CONCENTRATION LIMITS, ALLUVIAL TERRACE MONITOR WELLS, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP02 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/17/91

PARAMETER NAME	TOTAL # OF SAMP.	UNITS OF MEASURE	MAX CON. LIMIT	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	VALUE EXCEEDING MAX. CON. LIMIT	PARAMETER UNCERTAINTY
ARSENIC	13	MG/L	0.05000	0600	10/11/88	0001	TA	0	0.09	-
				0600	10/12/90	0001	TA	0	0.1	-
				0601	10/11/88	0002	TA	0	0.06	-
				0601	10/12/90	0001	TA	0	0.05	-
				0602	10/11/88	0001	TA	0	0.31	-
				0602	04/19/89	0001	TA	0	0.05	-
				0602	10/11/90	0001	TA	0	0.1	-
ARSENIC (TOTAL)	0	MG/L	0.05000	-	-	-	-	-	-	
BARIUM	13	MG/L	1.00000	-	-	-	-	-	-	
BARIUM (TOTAL)	0	MG/L	1.00000	-	-	-	-	-	-	
CADMIUM	13	MG/L	0.01000	0600	04/19/89	0001	TA	0	0.011	-
				0601	10/11/88	0002	TA	0	0.180	-
				0601	04/19/89	0001	TA	0	0.111	-
				0601	06/04/90	0001	TA	0	.060	-
				0601	10/12/90	0001	TA	0	0.048	-
				0602	04/19/89	0001	TA	0	0.013	-
				0603	06/04/90	0001	AL	N	.057	-
CADMIUM (TOTAL)	0	MG/L	0.01000	-	-	-	-	-	-	
CHROMIUM	13	MG/L	0.05000	0600	10/11/88	0001	TA	0	0.16	-
				0601	10/11/88	0002	TA	0	0.24	-
				0602	10/11/88	0001	TA	0	0.24	-
CHROMIUM (TOTAL)	0	MG/L	0.05000	-	-	-	-	-	-	
GROSS ALPHA	6	PCI/L	15.00000	0600	10/11/88	0001	TA	0	1100.	200.
				0600	04/19/89	0001	TA	0	1000.	200.
				0601	10/11/88	0002	TA	0	80.	130.
				0601	04/19/89	0001	TA	0	400.	130.
				0602	10/11/88	0001	TA	0	1200.	200.
				0602	04/19/89	0001	TA	0	1200.	200.
GROSS ALPHA (TOTAL)	0	PCI/L	15.00000	-	-	-	-	-	-	

FORMATION OF COMPLETION CODE:
 TA - URANIUM MILL TAILINGS
 AL - ALLUVIUM

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

TABLE 4.5 GROUNDWATER QUALITY MEASUREMENTS EXCEEDING MAXIMUM CONCENTRATION LIMITS, ALLUVIAL TERRACE MONITOR WELLS, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP02 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/17/91

PARAMETER NAME	TOTAL # OF SAMP.	UNITS OF MEASURE	MAX CON. LIMIT	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	VALUE EXCEEDING MAX. CON. LIMIT	PARAMETER UNCERTAINTY
LEAD	13	MG/L	0.05000	0600	10/12/90	0001	TA	0	0.05	-
				0601	10/12/90	0001	TA	0	0.05	-
				0602	10/11/90	0001	TA	0	0.05	-
LEAD (TOTAL)	0	MG/L	0.05000	-	-	-	-	-	-	
MERCURY	13	MG/L	0.00200	-	-	-	-	-	-	
MERCURY (TOTAL)	0	MG/L	0.00200	-	-	-	-	-	-	
MOLYBDENUM	13	MG/L	0.10000	0600	10/11/88	0001	TA	0	0.18	-
				0601	10/11/88	0002	TA	0	0.34	-
				0602	10/11/88	0001	TA	0	0.45	-
				0602	06/04/90	0001	TA	0	.11	-
				0603	06/04/90	0001	AL	N	.10	-
MOLYBDENUM (TOTAL)	0	MG/L	0.10000	-	-	-	-	-	-	
NET GROSS ALPHA *	6	PCI/L	15.00000	0600	10/11/88	0001	TA	0	23.0	-
				0601	10/11/88	0002	TA	0	62.0	-
				0601	04/19/89	0001	TA	0	381.6	-
				0602	10/11/88	0001	TA	0	411.1	-
				0602	04/19/89	0001	TA	0	260.2	-
NET GROSS ALPHA (TOTAL) **	0	PCI/L	15.00000	-	-	-	-	-	-	
NITRATE	13	MG/L	44.00000	0600	10/11/88	0001	TA	0	840.	-
				0600	04/19/89	0001	TA	0	470.	-
				0600	06/04/90	0001	TA	0	945.	-
				0600	10/12/90	0001	TA	0	385.	-
				0601	10/11/88	0002	TA	0	1990.	-
				0601	04/19/89	0001	TA	0	3300.	-
				0601	06/04/90	0001	TA	0	2320.	-
				0601	10/12/90	0001	TA	0	2090.	-

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

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

FORMATION OF COMPLETION CODE:
 TA - URANIUM MILL TAILINGS
 AL - ALLUVIUM

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

TABLE 4.5 GROUNDWATER QUALITY MEASUREMENTS EXCEEDING MAXIMUM CONCENTRATION LIMITS, ALLUVIAL TERRACE MONITOR WELLS, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP02 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/17/91

PARAMETER NAME	TOTAL # OF SAMP.	UNITS OF MEASURE	MAX CON. LIMIT	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	VALUE EXCEEDING MAX. CON. LIMIT	PARAMETER UNCERTAINTY
NITRATE	13	MG/L	44.00000	0602	10/11/88	0001	TA	0	55.	-
				0602	04/19/89	0001	TA	0	140.	-
				0602	06/04/90	0001	TA	0	87.	-
				0602	10/11/90	0001	TA	0	65.	-
				0603	06/04/90	0001	AL	N	106.	-
NITRATE (TOTAL)	0	MG/L	44.00000	-	-	-	-	-	-	
RA-226 & RA-228	13	PCI/L	5.00000	0600	06/04/90	0001	TA	0	5.0	-
				0602	10/11/88	0001	TA	0	10.4	-
				0602	04/19/89	0001	TA	0	12.3	-
				0602	06/04/90	0001	TA	0	14.1	-
				0602	10/11/90	0001	TA	0	10.7	-
0603	06/04/90	0001	AL	N	6.0	-				
RA-226 & RA-228 (TOTAL)	0	PCI/L	5.00000	-	-	-	-	-	-	
SELENIUM	13	MG/L	0.01000	0600	10/11/88	0001	TA	0	0.652	-
				0600	04/19/89	0001	TA	0	0.128	-
				0600	06/04/90	0001	TA	0	.091	-
				0600	10/12/90	0001	TA	0	0.070	-
				0601	10/11/88	0002	TA	0	0.684	-
				0601	04/19/89	0001	TA	0	0.070	-
				0601	06/04/90	0001	TA	0	.037	-
				0601	10/12/90	0001	TA	0	0.125	-
				0602	10/11/88	0001	TA	0	0.796	-
				0602	04/19/89	0001	TA	0	0.142	-
				0602	06/04/90	0001	TA	0	.163	-
				0602	10/11/90	0001	TA	0	0.05	-
				0603	06/04/90	0001	AL	N	.185	-
SELENIUM (TOTAL)	0	MG/L	0.01000	-	-	-	-	-	-	
SILVER	13	MG/L	0.05000	-	-	-	-	-	-	
SILVER (TOTAL)	0	MG/L	0.05000	-	-	-	-	-	-	
URANIUM	13	MG/L	0.04400	0600	10/11/88	0001	TA	0	1.57	-

FORMATION OF COMPLETION CODE:
 TA - URANIUM MILL TAILINGS
 AL - ALLUVIUM

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

TABLE 4.5 GROUNDWATER QUALITY MEASUREMENTS EXCEEDING MAXIMUM CONCENTRATION LIMITS, ALLUVIAL TERRACE MONITOR WELLS, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP02 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/17/91

PARAMETER NAME	TOTAL # OF SAMP.	UNITS OF MEASURE	MAX CON. LIMIT	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	VALUE EXCEEDING MAX. CON. LIMIT	PARAMETER UNCERTAINTY
URANIUM	13	MG/L	0.04400	0600	04/19/89	0001	TA	0	1.48	-
				0600	06/04/90	0001	TA	0	1.06	-
				0600	10/12/90	0001	TA	0	1.44	-
				0602	10/11/88	0001	TA	0	1.15	-
				0602	04/19/89	0001	TA	0	1.37	-
				0602	06/04/90	0001	TA	0	0.971	-
				0602	10/11/90	0001	TA	0	0.975	-
URANIUM (TOTAL)	0	MG/L	0.04400	-	-	-	-	-	-	

FORMATION OF COMPLETION CODE:
 TA - URANIUM MILL TAILINGS

FLOW RELATIONSHIP CODE:
 0 - ON-SITE

DATA FILE NAME: M:\DART\SHP02\GMQ10003.DAT

TABLE 4.6 GROUNDWATER QUALITY STATISTICS BY PARAMETER
 FLOODPLAIN ALLUVIUM MONITOR WELLS, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/17/91

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								
142	108.0000	2325.0000	478.0000	626.8099	439.3963	0.7010	0.0	541.0425	712.5772	NORMAL		
ALUMINUM				MG/L								
127	0.0250	1.1500	0.1000	NA	NA	NA	40.2	0.0500	0.2000	NONPARAMETRIC	2	
AMMONIUM				MG/L								
143	0.0500	3780.0000	1.2000	NA	NA	NA	25.2	0.6000	5.0000	NONPARAMETRIC	2	
ANTIMONY				MG/L								
134	0.0015	0.7420	0.0100	NA	NA	NA	37.3	0.0060	0.0260	NONPARAMETRIC	2	
ARSENIC				MG/L								
143	0.0010	0.3200	0.0100	NA	NA	NA	32.9	0.0050	0.0200	NONPARAMETRIC	2	
BARIUM				MG/L								
134	0.0050	0.2000	0.0500	NA	NA	NA	50.0	0.0500	0.0500	NONPARAMETRIC	2	
BERYLLIUM				MG/L								
44	0.0025	0.0050	0.0050	NA	NA	NA	100.0	0.0050	0.0050	NONPARAMETRIC	2	
BORON				MG/L								
125	0.0400	1.4900	0.4000	0.4810	0.3162	0.6575	6.4	0.4152	0.5467	NORMAL		
BROMIDE				MG/L								
67	0.0300	1.7000	0.0500	NA	NA	NA	59.7	0.0500	0.1000	NONPARAMETRIC	2	
CADMIUM				MG/L								
134	0.0005	0.1170	0.0025	NA	NA	NA	67.9	0.0010	0.0025	NONPARAMETRIC	2	
CALCIUM				MG/L								
143	47.0000	620.0000	432.0000	395.1566	143.0921	0.3621	0.0	367.3238	422.9895	NORMAL		

* 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.

TABLE 4.6 GROUNDWATER QUALITY STATISTICS BY PARAMETER
 FLOODPLAIN ALLUVIUM MONITOR WELLS, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/17/91

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 *			
CHLORIDE				MG/L								
143	3.0000	3780.0000	222.0000		182.1074	3.7865	NA	0.0	140.5578	235.9394	LOGNORMAL	7,8
CHROMIUM				MG/L								
134	0.0050	0.3400	0.0050		NA	NA	NA	67.9	0.0050	0.0050	NONPARAMETRIC	2
COBALT				MG/L								
134	0.0100	5.0500	0.0250		NA	NA	NA	67.9	0.0250	0.0250	NONPARAMETRIC	2
COPPER				MG/L								
134	0.0050	0.1900	0.0150		NA	NA	NA	44.0	0.0100	0.0200	NONPARAMETRIC	2
CYANIDE				MG/L								
43	0.0050	0.0050	0.0050		NA	NA	NA	100.0	0.0050	0.0050	NONPARAMETRIC	2
FLUORIDE				MG/L								
143	0.1000	2.0000	0.5000		0.5550	0.3230	0.5821	0.0	0.4921	0.6178	NORMAL	
GROSS ALPHA				PCI/L								
80	1.3000	2700.0000	300.0000		198.8443	7.0946	NA	0.0	118.2631	334.3314	LOGNORMAL	7,8
GROSS BETA				PCI/L								
80	5.7000	1300.0000	215.0000		138.6018	5.6295	NA	0.0	87.6488	219.1754	LOGNORMAL	7,8
IRON				MG/L								
134	0.0100	89.0000	0.1100		NA	NA	NA	27.6	0.0800	0.1500	NONPARAMETRIC	2
LEAD				MG/L								
133	0.0030	0.7600	0.0050		NA	NA	NA	66.2	0.0050	0.0050	NONPARAMETRIC	2

- * 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.

TABLE 4.6 GROUNDWATER QUALITY STATISTICS BY PARAMETER
 FLOODPLAIN ALLUVIUM MONITOR WELLS, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/17/91

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 *			
LEAD-210				PCI/L								
79	0.1000	21.0000	1.1000		NA	NA	16.5	0.7500	1.3000	NONPARAMETRIC	2	
MAGNESIUM				MG/L								
143	16.6000	3730.0000	492.0000		407.2318	4.4431	NA	0.0	304.6908	544.2820	LOGNORMAL	7,8
MANGANESE				MG/L								
124	0.0300	68.8000	3.4750		2.8800	3.0583	NA	0.0	2.2803	3.6375	LOGNORMAL	7,8
MERCURY				MG/L								
116	0.0001	0.0007	0.0001		NA	NA	80.2	0.0001	0.0001	NONPARAMETRIC	2	
MOLYBDENUM				MG/L								
143	0.0050	0.5000	0.0200		NA	NA	45.5	0.0100	0.0200	NONPARAMETRIC	2	
NET GROSS ALPHA ***				PCI/L								
80	-958.7800	545.9600	12.3600		NA	NA	0.0	3.1200	22.1700	NONPARAMETRIC	9	
NICKEL				MG/L								
124	0.0100	0.7100	0.0200		NA	NA	49.2	0.0200	0.0300	NONPARAMETRIC	2	
NITRATE				MG/L								
143	0.4000	5320.0000	75.0000		45.0169	21.6598	NA	13.3	24.7501	81.8792	LOGNORMAL	7,8
NITRITE				MG/L								
77	0.0500	0.4000	0.0500		NA	NA	97.4	0.0500	0.0500	NONPARAMETRIC	2	

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

* 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 .

TABLE 4.6 GROUNDWATER QUALITY STATISTICS BY PARAMETER
 FLOODPLAIN ALLUVIUM MONITOR WELLS, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/17/91

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 *			
NITRITE AND NITRATE				MG/L								
16	0.3000	780.0000	0.9000	NA	NA	NA	31.3	0.5000	54.0000	NONPARAMETRIC	2	
PHOSPHATE				MG/L								
126	0.0500	14.9000	0.1000	NA	NA	NA	46.0	0.0500	0.2000	NONPARAMETRIC	2	
POLONIUM-210				PCI/L								
103	0.0500	4.5000	0.5000	NA	NA	NA	37.9	0.5000	0.6000	NONPARAMETRIC	2	
POTASSIUM				MG/L								
143	2.0800	933.0000	28.3000	27.3801	3.7052	NA	0.0	21.2224	35.3244	LOGNORMAL	7,8	
RADIUM-226				PCI/L								
132	0.0500	2.7000	0.1000	NA	NA	NA	42.4	0.0500	0.1000	NONPARAMETRIC	2	
RADIUM-228				PCI/L								
137	0.1000	7.0000	0.5000	NA	NA	NA	23.4	0.5000	0.5000	NONPARAMETRIC	2	
SELENIUM				MG/L								
143	0.0010	1.6700	0.0370	NA	NA	NA	21.7	0.0200	0.0670	NONPARAMETRIC	2	
SILICA - SiO2				MG/L								
133	1.0000	21.1000	12.5000	12.7586	3.8528	0.3020	0.8	11.9815	13.5356	NORMAL		
SILVER				MG/L								
75	0.0050	0.0500	0.0050	NA	NA	NA	90.7	0.0050	0.0050	NONPARAMETRIC	2	
SODIUM				MG/L								
143	24.6000	13200.0000	1220.0000	1012.9309	3.5497	NA	0.0	791.7036	1295.9761	LOGNORMAL	7,8	

- * 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.

TABLE 4.6 GROUNDWATER QUALITY STATISTICS BY PARAMETER
 FLOODPLAIN ALLUVIUM MONITOR WELLS, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/17/91

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 *			
SPECIFIC CONDUCTANCE				UMHO/CM								
141	330.0000	30500.0000	4550.0000	6260.1064	5326.0581	0.8508	0.0	5216.8139	7303.3988	NORMAL		
STRONTIUM				MG/L								
134	0.6200	25.0000	7.7650	8.1776	5.0717	0.6202	0.0	7.1585	9.1967	NORMAL		
SULFATE				MG/L								
143	114.0000	36900.0000	5096.0000	7146.8811	6420.9872	0.8984	0.0	5897.9356	8395.8267	NORMAL		
SULFIDE				MG/L								
86	0.0500	1.1000	0.0500	NA	NA	NA	90.7	0.0500	0.0500	NONPARAMETRIC	2	
TEMPERATURE				C - DEGREE								
143	3.0000	30.0000	18.0000	17.1245	4.8130	0.2811	0.0	16.1883	18.0606	NORMAL		
THALLIUM				MG/L								
44	0.0050	0.0400	0.0050	NA	NA	NA	75.0	0.0050	0.0200	NONPARAMETRIC	2	
THORIUM-230				PCI/L								
114	0.0500	60.0000	0.4000	NA	NA	NA	37.7	0.3000	0.5000	NONPARAMETRIC	2	
TIN				MG/L								
124	0.0025	1.3900	0.0210	NA	NA	NA	39.5	0.0100	0.0250	NONPARAMETRIC	2	
TOTAL DISSOLVED SOLIDS				MG/L								
143	312.0000	64200.0000	8650.0000	12965.3846	11824.6962	0.9120	0.0	10665.3642	15265.4050	NORMAL		
TOTAL ORGANIC CARBON				MG/L								
104	8.9000	387.0000	117.5000	140.1317	94.2461	0.6726	0.0	118.3123	161.9511	NORMAL		
URANIUM				MG/L								
143	0.0016	4.3200	0.3730	0.2391	8.5766	NA	0.0	0.1574	0.3632	LOGNORMAL	7,8	

- * 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.

TABLE 4.6 GROUNDWATER QUALITY STATISTICS BY PARAMETER
 FLOODPLAIN ALLUVIUM MONITOR WELLS, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/17/91

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 *			
VANADIUM				MG/L								
143	0.0050	0.2700	0.0700	NA	NA	NA	21.0	0.0500	0.1000	NONPARAMETRIC	2	
ZINC				MG/L								
134	0.0025	14.6000	0.1005	0.1448	9.3230	NA	9.7	0.0924	0.2267	LOGNORMAL	7,8	

- * 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.

INPUT DATA FILENAME: M:\DART\SHPO1\GWQ10013.DAT

TABLE 4.7 GROUNDWATER QUALITY MEASUREMENTS EXCEEDING MAXIMUM CONCENTRATION LIMITS, FLOODPLAIN ALLUVIUM, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/17/91

PARAMETER NAME	TOTAL # OF SAMP.	UNITS OF MEASURE	MAX CON. LIMIT	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	VALUE EXCEEDING MAX. CON. LIMIT	PARAMETER UNCERTAINTY
ARSENIC	143	MG/L	0.05000	0603	09/03/87	0001	AL	D	0.082	-
				0608	10/07/90	0001	AL	D	0.05	-
				0610	10/07/90	0001	AL	D	0.05	-
				0614	10/11/88	0001	AL	D	0.05	-
				0614	10/07/90	0001	AL	D	0.05	-
				0615	10/09/90	0001	AL	D	0.1	-
				0616	10/09/90	0001	AL	D	0.05	-
				0617	10/09/90	0001	AL	D	0.05	-
				0619	09/19/87	0001	AL	D	0.053	-
				0619	04/05/89	0001	AL	D	0.05	-
				0619	10/09/90	0001	AL	D	0.05	-
				0621	09/01/87	0001	AL	D	0.061	-
				0622	09/01/87	0001	AL	D	0.059	-
				0623	09/01/87	0001	AL	D	0.064	-
				0624	09/01/87	0001	AL	D	0.056	-
				0624	10/09/90	0001	AL	D	0.05	-
				0625	09/03/87	0001	AL	D	0.052	-
				0626	10/11/90	0001	AL	D	0.05	-
				0628	10/11/90	0001	AL	D	0.05	-
				0630	10/10/90	0001	AL	D	0.05	-
				0640	09/24/87	0001	AL	D	0.079	-
				0641	10/09/88	0001	AL	D	0.32	-
				0642	09/23/87	0001	AL	D	0.129	-
				0642	04/18/89	0001	AL	D	0.05	-
0643	04/18/89	0001	AL	D	0.05	-				
0644	09/23/87	0001	AL	D	0.082	-				
0644	10/09/88	0001	AL	D	0.15	-				
ARSENIC (TOTAL)	0	MG/L	0.05000	-	-	-	-	-	-	
BARIUM	134	MG/L	1.00000	-	-	-	-	-	-	
BARIUM (TOTAL)	0	MG/L	1.00000	-	-	-	-	-	-	
CADMIUM	134	MG/L	0.01000	0603	04/06/89	0001	AL	D	0.020	-
				0603	06/04/90	0001	AL	D	.057	-
				0608	04/03/89	0001	AL	D	0.018	-
				0615	04/03/89	0001	AL	D	0.013	-
				0619	04/05/89	0001	AL	D	0.020	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

TABLE 4.7 GROUNDWATER QUALITY MEASUREMENTS EXCEEDING MAXIMUM CONCENTRATION LIMITS, FLOODPLAIN ALLUVIUM, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/17/91

PARAMETER NAME	TOTAL # OF SAMP.	UNITS OF MEASURE	MAX CON. LIMIT	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	VALUE EXCEEDING MAX. CON. LIMIT	PARAMETER UNCERTAINTY
CADMIUM	134	MG/L	0.01000	0620	04/05/89	0001	AL	D	0.015	-
				0624	04/04/89	0001	AL	D	0.013	-
				0638	05/14/87	0001	AL	D	0.010	-
				0639	05/14/87	0001	AL	D	0.025	-
				0641	05/14/87	0001	AL	D	0.077	-
				0641	04/18/89	0001	AL	D	0.010	-
				0642	05/20/87	0001	AL	D	0.053	-
				0644	05/20/87	0001	AL	D	0.117	-
				0646	05/16/87	0001	AL	U	0.012	-
CADMIUM (TOTAL)	0	MG/L	0.01000	-	-	-	-	-	-	
CHROMIUM	134	MG/L	0.05000	0607	09/19/86	0001	AL	D	0.08	-
				0608	09/18/86	0001	AL	D	0.09	-
				0609	09/17/86	0001	AL	D	0.06	-
				0610	09/18/86	0001	AL	D	0.06	-
				0613	09/18/86	0001	AL	D	0.05	-
				0614	10/11/88	0001	AL	D	0.20	-
				0615	10/09/90	0001	AL	D	0.32	-
				0618	10/11/88	0001	AL	D	0.15	-
				0620	09/16/86	0001	AL	D	0.11	-
				0621	09/15/86	0001	AL	D	0.11	-
				0622	09/16/86	0001	AL	D	0.09	-
				0624	09/18/86	0001	AL	D	0.10	-
				0631	09/20/86	0001	AL	D	0.05	-
				0632	09/20/86	0001	AL	D	0.05	-
				0638	05/14/87	0001	AL	D	0.06	-
				0639	05/14/87	0001	AL	D	0.12	-
				0639	10/09/88	0001	AL	D	0.15	-
				0640	03/19/87	0001	AL	D	0.05	-
				0641	03/18/87	0001	AL	D	0.11	-
				0641	05/14/87	0001	AL	D	0.24	-
				0641	10/09/88	0001	AL	D	0.23	-
				0642	03/19/87	0001	AL	D	0.07	-
				0642	05/20/87	0001	AL	D	0.20	-
				0643	03/19/87	0001	AL	D	0.14	-
				0644	03/18/87	0001	AL	D	0.11	-
				0644	05/20/87	0001	AL	D	0.34	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

TABLE 4.7 GROUNDWATER QUALITY MEASUREMENTS EXCEEDING MAXIMUM CONCENTRATION LIMITS, FLOODPLAIN ALLUVIUM, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/17/91

PARAMETER NAME	TOTAL # OF SAMP.	UNITS OF MEASURE	MAX CON. LIMIT	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	VALUE EXCEEDING MAX. CON. LIMIT	PARAMETER UNCERTAINTY
CHROMIUM	134	MG/L	0.05000	0644	10/09/88	0001	AL	D	0.22	-
				0645	03/17/87	0001	AL	U	0.11	-
				0645	05/16/87	0001	AL	U	0.05	-
				0646	03/18/87	0001	AL	U	0.11	-
				0646	05/16/87	0001	AL	U	0.07	-
				0646	10/09/88	0001	AL	U	0.07	-
				0670	10/09/88	0001	AL	D	0.06	-
				0671	10/09/88	0001	AL	D	0.06	-
CHROMIUM (TOTAL)	0	MG/L	0.05000	-	-	-	-	-	-	
GROSS ALPHA	80	PCI/L	15.00000	0602	09/18/87	0001	AL	D	200.	40.
				0603	09/03/87	0001	AL	D	2300.	300.
				0603	04/06/89	0001	AL	D	1600.	300.
				0604	09/03/87	0001	AL	D	320.	70.
				0607	09/01/87	0001	AL	D	1600.	300.
				0608	09/22/87	0001	AL	D	2000.	300.
				0608	04/03/89	0001	AL	D	1600.	300.
				0609	09/21/87	0001	AL	D	2200.	300.
				0610	09/21/87	0001	AL	D	870.	140.
				0610	04/03/89	0001	AL	D	780.	190.
				0611	09/19/87	0001	AL	D	770.	120.
				0612	09/19/87	0001	AL	D	110.	20.
				0612	04/03/89	0001	AL	D	160.	20.
				0613	09/18/87	0001	AL	D	980.	110.
				0614	09/18/87	0001	AL	D	920.	110.
				0614	10/11/88	0001	AL	D	620.	150.
				0614	04/03/89	0001	AL	D	650.	160.
				0615	09/18/87	0001	AL	D	1200.	20.
				0615	04/03/89	0001	AL	D	1900.	300.
				0616	09/18/87	0001	AL	D	230.	40.
0616	04/04/89	0001	AL	D	180.	40.				
0617	09/18/87	0001	AL	D	320.	50.				
0617	04/04/89	0001	AL	D	300.	60.				
0618	09/18/87	0001	AL	D	350.	50.				
0618	10/11/88	0001	AL	D	240.	50.				
0619	09/19/87	0001	AL	D	1700.	300.				
0619	04/05/89	0001	AL	D	2700.	300.				

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 U - UPGRADIENT
 D - DOWN GRADIENT

TABLE 4.7 GROUNDWATER QUALITY MEASUREMENTS EXCEEDING MAXIMUM CONCENTRATION LIMITS, FLOODPLAIN ALLUVIUM, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/17/91

PARAMETER NAME	TOTAL # OF SAMP.	UNITS OF MEASURE	MAX CON. LIMIT	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	VALUE EXCEEDING MAX. CON. LIMIT	PARAMETER UNCERTAINTY
GROSS ALPHA	80	PCI/L	15.00000	0620	08/30/87	0001	AL	D	1600.	300.
				0620	04/05/89	0001	AL	D	920.	190.
				0621	09/01/87	0001	AL	D	2000.	300.
				0622	09/01/87	0001	AL	D	1900.	300.
				0623	09/01/87	0001	AL	D	1600.	300.
				0624	09/01/87	0001	AL	D	1500.	300.
				0624	04/04/89	0001	AL	D	2200.	300.
				0625	09/03/87	0001	AL	D	1500.	300.
				0626	09/01/87	0001	AL	D	650.	160.
				0626	04/05/89	0001	AL	D	270.	90.
				0627	09/16/87	0001	AL	D	420.	90.
				0628	09/16/87	0001	AL	D	300.	80.
				0628	04/05/89	0001	AL	D	230.	60.
				0629	08/30/87	0001	AL	D	68.	21.
				0629	04/18/89	0001	AL	D	39.	26.
				0630	08/30/87	0001	AL	D	37.	18.
				0631	08/30/87	0001	AL	D	16.	16.
				0632	09/01/87	0001	AL	D	20.	25.
				0632	11/12/87	0001	AL	D	15.	34.
				0633	04/19/89	0001	AL	D	56.	23.
				0639	09/25/87	0001	AL	D	27.	27.
				0639	10/09/88	0001	AL	D	36.	39.
				0639	04/20/89	0001	AL	D	30.	29.
				0640	09/24/87	0001	AL	D	38.	68.
				0640	04/19/89	0001	AL	D	120.	80.
				0641	09/24/87	0001	AL	D	750.	170.
				0641	10/09/88	0001	AL	D	1700.	400.
				0641	04/18/89	0001	AL	D	1100.	200.
				0642	09/23/87	0001	AL	D	730.	150.
				0642	04/18/89	0001	AL	D	760.	160.
				0643	09/24/87	0001	AL	D	2100.	400.
				0643	04/18/89	0001	AL	D	1300.	300.
0644	09/23/87	0001	AL	D	890.	240.				
0644	10/09/88	0001	AL	D	390.	200.				
0645	04/02/89	0001	AL	U	64.	22.				
0646	09/22/87	0001	AL	U	37.	13.				
0646	10/09/88	0001	AL	U	72.	17.				
0646	04/02/89	0001	AL	U	42.	8.				

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

TABLE 4.7 GROUNDWATER QUALITY MEASUREMENTS EXCEEDING MAXIMUM CONCENTRATION LIMITS, FLOODPLAIN ALLUVIUM, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/17/91

PARAMETER NAME	TOTAL # OF SAMP.	UNITS OF MEASURE	MAX CON. LIMIT	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	VALUE EXCEEDING MAX. CON. LIMIT	PARAMETER UNCERTAINTY
GROSS ALPHA	80	PCI/L	15.00000	0647	04/02/89	0001	AL	U	92.	25.
				0670	03/31/88	0001	AL	D	31.	15.
				0670	10/09/88	0001	AL	D	16.	10.
				0670	04/21/89	0001	AL	D	24.	11.
				0671	03/31/88	0001	AL	D	47.	34.
				0671	10/09/88	0001	AL	D	21.	11.
				0671	04/21/89	0001	AL	D	21.	12.
				0672	03/31/88	0001	AL	D	21.	10.
GROSS ALPHA (TOTAL)	0	PCI/L	15.00000	-	-	-	-	-	-	
LEAD	133	MG/L	0.05000	0607	09/01/87	0001	AL	D	0.05	-
				0608	10/07/90	0001	AL	D	0.05	-
				0615	10/09/90	0001	AL	D	0.05	-
				0638	05/14/87	0001	AL	D	0.06	-
				0639	05/14/87	0001	AL	D	0.14	-
				0641	05/14/87	0001	AL	D	0.48	-
				0641	10/09/88	0001	AL	D	0.10	-
				0642	05/20/87	0001	AL	D	0.31	-
				0644	05/20/87	0001	AL	D	0.76	-
				0646	05/16/87	0001	AL	U	0.06	-
LEAD (TOTAL)	0	MG/L	0.05000	-	-	-	-	-	-	
MERCURY	116	MG/L	0.00200	-	-	-	-	-	-	
MERCURY (TOTAL)	0	MG/L	0.00200	-	-	-	-	-	-	
MOLYBDENUM	143	MG/L	0.10000	0601	09/19/86	0001	AL	U	0.16	-
				0603	06/04/90	0001	AL	D	.10	-
				0607	09/19/86	0001	AL	D	0.14	-
				0608	09/18/86	0001	AL	D	0.10	-
				0612	09/17/86	0001	AL	D	0.10	-
				0613	09/18/86	0001	AL	D	0.11	-
				0614	10/11/88	0001	AL	D	0.23	-
				0615	10/09/90	0001	AL	D	0.36	-
				0616	09/15/86	0001	AL	D	0.14	-
				0618	10/11/88	0001	AL	D	0.10	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 U - UPGRADIENT
 D - DOWN GRADIENT

TABLE 4.7 GROUNDWATER QUALITY MEASUREMENTS EXCEEDING MAXIMUM CONCENTRATION LIMITS, FLOODPLAIN ALLUVIUM, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/17/91

PARAMETER NAME	TOTAL # OF SAMP.	UNITS OF MEASURE	MAX CON. LIMIT	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	VALUE EXCEEDING MAX. CON. LIMIT	PARAMETER UNCERTAINTY
MOLYBDENUM	143	MG/L	0.10000	0620	09/16/86	0001	AL	D	0.13	-
				0621	09/15/86	0001	AL	D	0.15	-
				0622	09/16/86	0001	AL	D	0.13	-
				0624	09/18/86	0001	AL	D	0.13	-
				0627	09/14/86	0001	AL	D	0.11	-
				0630	09/15/86	0001	AL	D	0.11	-
				0632	09/20/86	0001	AL	D	0.15	-
				0632	11/12/87	0001	AL	D	0.14	-
				0638	03/19/87	0001	AL	D	0.1	-
				0639	03/19/87	0001	AL	D	0.1	-
				0639	10/09/88	0001	AL	D	0.11	-
				0640	03/19/87	0001	AL	D	0.1	-
				0641	03/18/87	0001	AL	D	0.1	-
				0641	05/14/87	0001	AL	D	0.30	-
				0641	10/09/88	0001	AL	D	0.41	-
				0642	03/19/87	0001	AL	D	0.1	-
				0642	05/20/87	0001	AL	D	0.15	-
				0643	03/19/87	0001	AL	D	0.1	-
				0644	03/18/87	0001	AL	D	0.1	-
				0644	05/20/87	0001	AL	D	0.50	-
				0644	10/09/88	0001	AL	D	0.31	-
				0645	03/17/87	0001	AL	U	0.1	-
				0646	03/18/87	0001	AL	U	0.1	-
				0647	03/18/87	0001	AL	U	0.1	-
0671	01/20/88	0001	AL	D	0.11	-				
0672	01/20/88	0001	AL	D	0.10	-				
MOLYBDENUM (TOTAL)	0	MG/L	0.10000	-	-	-	-	-	-	
NET GROSS ALPHA *	80	PCI/L	15.00000	0604	09/03/87	0001	AL	D	38.1	-
				0607	09/01/87	0001	AL	D	255.4	-
				0609	09/21/87	0001	AL	D	114.6	-
				0610	09/21/87	0001	AL	D	238.9	-
				0611	09/19/87	0001	AL	D	276.8	-
				0613	09/18/87	0001	AL	D	430.5	-
				0614	09/18/87	0001	AL	D	350.6	-

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

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

TABLE 4.7 GROUNDWATER QUALITY MEASUREMENTS EXCEEDING MAXIMUM CONCENTRATION LIMITS, FLOODPLAIN ALLUVIUM, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/17/91

PARAMETER NAME	TOTAL # OF SAMP.	UNITS OF MEASURE	MAX CON. LIMIT	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	VALUE EXCEEDING MAX. CON. LIMIT	PARAMETER UNCERTAINTY
NET GROSS ALPHA *	80	PCI/L	15.00000	0615	09/18/87	0001	AL	D	75.0	-
				0617	09/18/87	0001	AL	D	76.5	-
				0617	04/04/89	0001	AL	D	44.1	-
				0618	09/18/87	0001	AL	D	65.3	-
				0619	09/19/87	0001	AL	D	94.8	-
				0619	04/05/89	0001	AL	D	546.0	-
				0620	08/30/87	0001	AL	D	152.5	-
				0621	09/01/87	0001	AL	D	497.7	-
				0623	09/01/87	0001	AL	D	454.4	-
				0624	09/01/87	0001	AL	D	237.8	-
				0624	04/04/89	0001	AL	D	437.0	-
				0625	09/03/87	0001	AL	D	52.5	-
				0627	09/16/87	0001	AL	D	153.8	-
				0628	09/16/87	0001	AL	D	22.2	-
				0629	08/30/87	0001	AL	D	46.3	-
				0629	04/18/89	0001	AL	D	18.5	-
				0630	08/30/87	0001	AL	D	15.9	-
				0633	04/19/89	0001	AL	D	38.2	-
				0639	04/20/89	0001	AL	D	19.3	-
				0640	04/19/89	0001	AL	D	58.9	-
				0641	10/09/88	0001	AL	D	94.8	-
				0641	04/18/89	0001	AL	D	201.3	-
				0643	04/18/89	0001	AL	D	51.5	-
				0645	04/02/89	0001	AL	U	18.5	-
				0646	10/09/88	0001	AL	U	32.0	-
				0646	04/02/89	0001	AL	U	19.8	-
				0670	04/21/89	0001	AL	D	22.8	-
0671	03/31/88	0001	AL	D	27.3	-				
NET GROSS ALPHA (TOTAL) **	0	PCI/L	15.00000	-	-	-	-	-	-	
NITRATE	143	MG/L	44.00000	0602	09/18/87	0001	AL	D	110.	-
				0603	09/03/87	0001	AL	D	120.	-
				0603	06/04/90	0001	AL	D	106.	-

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

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

TABLE 4.7 GROUNDWATER QUALITY MEASUREMENTS EXCEEDING MAXIMUM CONCENTRATION LIMITS, FLOODPLAIN ALLUVIUM, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/17/91

PARAMETER NAME	TOTAL # OF SAMP.	UNITS OF MEASURE	MAX CON. LIMIT	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	VALUE EXCEEDING MAX. CON. LIMIT	PARAMETER UNCERTAINTY
NITRATE	143	MG/L	44.00000	0604	09/03/87	0001	AL	D	95.	-
				0607	09/19/86	0001	AL	D	840.0	-
				0607	09/01/87	0001	AL	D	840.	-
				0608	09/18/86	0001	AL	D	410.0	-
				0608	09/22/87	0001	AL	D	365.	-
				0608	04/03/89	0001	AL	D	3900.	-
				0608	06/01/90	0001	AL	D	3460.	-
				0608	10/07/90	0001	AL	D	3110.	-
				0609	09/17/86	0001	AL	D	410.0	-
				0609	09/21/87	0001	AL	D	4000.	-
				0610	09/18/86	0001	AL	D	410.0	-
				0610	09/21/87	0001	AL	D	1770.	-
				0610	04/03/89	0001	AL	D	2700.	-
				0610	06/01/90	0001	AL	D	2270.	-
				0610	10/07/90	0001	AL	D	1740.	-
				0611	09/19/87	0001	AL	D	1110.	-
				0612	09/17/86	0001	AL	D	160.0	-
				0612	04/03/89	0001	AL	D	51.	-
				0613	09/18/86	0001	AL	D	320.0	-
				0613	09/18/87	0001	AL	D	1060.	-
				0614	09/18/87	0001	AL	D	886.	-
				0614	10/11/88	0001	AL	D	1120.	-
				0614	04/03/89	0001	AL	D	1200.	-
				0614	06/01/90	0001	AL	D	1600.	-
				0614	10/07/90	0001	AL	D	1490.	-
				0615	09/18/87	0001	AL	D	1570.	-
				0615	04/03/89	0001	AL	D	3300.	-
				0615	06/01/90	0001	AL	D	400.	-
				0615	10/09/90	0001	AL	D	4220.	-
				0616	09/15/86	0001	AL	D	160.0	-
				0617	04/04/89	0001	AL	D	50.	-
0617	10/09/90	0001	AL	D	213.	-				
0619	09/19/87	0001	AL	D	1550.	-				
0619	04/05/89	0001	AL	D	1600.	-				
0619	10/09/90	0001	AL	D	389.	-				
0620	09/16/86	0001	AL	D	840.0	-				
0620	04/05/89	0001	AL	D	330.	-				
0620	06/01/90	0001	AL	D	216.	-				
0621	09/15/86	0001	AL	D	2100.0	-				

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

TABLE 4.7 GROUNDWATER QUALITY MEASUREMENTS EXCEEDING MAXIMUM CONCENTRATION LIMITS, FLOODPLAIN ALLUVIUM, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/17/91

PARAMETER NAME	TOTAL # OF SAMP.	UNITS OF MEASURE	MAX CON. LIMIT	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	VALUE EXCEEDING MAX. CON. LIMIT	PARAMETER UNCERTAINTY
NITRATE	143	MG/L	44.00000	0621	09/01/87	0001	AL	D	1200.	-
				0622	09/16/86	0001	AL	D	2400.0	-
				0622	09/01/87	0001	AL	D	660.	-
				0623	09/01/87	0001	AL	D	1770.	-
				0624	09/18/86	0001	AL	D	2500.0	-
				0624	09/01/87	0001	AL	D	2220.	-
				0624	04/04/89	0001	AL	D	950.	-
				0624	10/09/90	0001	AL	D	283.	-
				0625	09/03/87	0001	AL	D	1620.	-
				0626	09/01/87	0001	AL	D	190.	-
				0627	09/14/86	0001	AL	D	220.0	-
				0627	09/16/87	0001	AL	D	75.0	-
				0628	09/16/87	0001	AL	D	105.	-
				0629	08/30/87	0001	AL	D	86.8	-
				0629	04/18/89	0001	AL	D	60.	-
				0630	09/15/86	0001	AL	D	160.0	-
				0630	08/30/87	0001	AL	D	97.5	-
				0630	06/04/90	0001	AL	D	51.	-
				0642	03/19/87	0001	AL	D	1110.	-
				0642	05/20/87	0001	AL	D	930.	-
				0642	09/23/87	0001	AL	D	2520.	-
				0642	04/18/89	0001	AL	D	2000.	-
				0643	03/19/87	0001	AL	D	709.	-
				0643	09/24/87	0001	AL	D	151.	-
				0643	04/18/89	0001	AL	D	130.	-
				0644	03/18/87	0001	AL	D	1240.	-
				0644	05/20/87	0001	AL	D	1200.	-
				0644	09/23/87	0001	AL	D	5320.	-
				0644	10/09/88	0001	AL	D	3450.	-
				0645	04/02/89	0001	AL	U	270.	-
				0646	10/09/88	0001	AL	U	240.	-
				0647	03/18/87	0001	AL	U	182.	-
				0647	04/02/89	0001	AL	U	380.	-
0671	01/20/88	0001	AL	D	141.	-				
NITRATE (TOTAL)	0	MG/L	44.00000	-	-	-	-	-	-	
RA-226 & RA-228	132	PCI/L	5.00000	0603	06/04/90	0001	AL	D	6.0	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

TABLE 4.7 GROUNDWATER QUALITY MEASUREMENTS EXCEEDING MAXIMUM CONCENTRATION LIMITS, FLOODPLAIN ALLUVIUM, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/17/91

PARAMETER NAME	TOTAL # OF SAMP.	UNITS OF MEASURE	MAX CON. LIMIT	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	VALUE EXCEEDING MAX. CON. LIMIT	PARAMETER UNCERTAINTY
RA-226 & RA-228	132	PCI/L	5.00000	0628	10/11/90	0001	AL	D	7.0	-
RA-226 & RA-228 (TOTAL)	0	PCI/L	5.00000	-	-	-	-	-	-	-
SELENIUM	143	MG/L	0.01000	0602	09/18/87	0001	AL	D	0.178	-
				0603	04/06/89	0001	AL	D	0.452	-
				0603	06/04/90	0001	AL	D	.185	-
				0604	09/03/87	0001	AL	D	0.184	-
				0607	09/19/86	0001	AL	D	0.022	-
				0607	09/01/87	0001	AL	D	0.434	-
				0608	09/22/87	0001	AL	D	0.250	-
				0608	04/03/89	0001	AL	D	0.108	-
				0608	06/01/90	0001	AL	D	.075	-
				0608	10/07/90	0001	AL	D	0.03	-
				0609	09/21/87	0001	AL	D	0.228	-
				0610	09/21/87	0001	AL	D	0.158	-
				0610	04/03/89	0001	AL	D	0.070	-
				0610	06/01/90	0001	AL	D	.067	-
				0610	10/07/90	0001	AL	D	0.03	-
				0611	09/19/87	0001	AL	D	0.222	-
				0612	09/19/87	0001	AL	D	0.020	-
				0612	04/03/89	0001	AL	D	0.076	-
				0613	09/18/87	0001	AL	D	0.203	-
				0614	09/18/87	0001	AL	D	0.173	-
				0614	10/11/88	0001	AL	D	0.430	-
				0614	04/03/89	0001	AL	D	0.174	-
				0614	06/01/90	0001	AL	D	.056	-
				0614	10/07/90	0001	AL	D	0.110	-
				0615	09/18/87	0001	AL	D	0.255	-
				0615	04/03/89	0001	AL	D	0.122	-
				0615	06/01/90	0001	AL	D	.165	-
				0615	10/09/90	0001	AL	D	0.070	-
				0616	09/18/87	0001	AL	D	0.027	-
				0616	04/04/89	0001	AL	D	0.027	-
				0616	06/01/90	0001	AL	D	.023	-
				0616	10/09/90	0001	AL	D	0.03	-
				0617	09/18/87	0001	AL	D	0.077	-
				0617	04/04/89	0001	AL	D	0.037	-
				0617	06/01/90	0001	AL	D	.027	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

TABLE 4.7 GROUNDWATER QUALITY MEASUREMENTS EXCEEDING MAXIMUM CONCENTRATION LIMITS, FLOODPLAIN ALLUVIUM, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/17/91

PARAMETER NAME	TOTAL # OF SAMP.	UNITS OF MEASURE	MAX CON. LIMIT	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	VALUE EXCEEDING MAX. CON. LIMIT	PARAMETER UNCERTAINTY
SELENIUM	143	MG/L	0.01000	0617	10/09/90	0001	AL	D	0.03	-
				0618	09/18/87	0001	AL	D	0.064	-
				0618	10/11/88	0001	AL	D	0.069	-
				0619	09/19/87	0001	AL	D	0.372	-
				0619	04/05/89	0001	AL	D	0.456	-
				0619	06/01/90	0001	AL	D	.144	-
				0619	10/09/90	0001	AL	D	0.105	-
				0620	09/16/86	0001	AL	D	0.020	-
				0620	08/30/87	0001	AL	D	0.361	-
				0620	04/05/89	0001	AL	D	0.318	-
				0620	06/01/90	0001	AL	D	.075	-
				0621	09/15/86	0001	AL	D	0.023	-
				0621	09/01/87	0001	AL	D	0.329	-
				0622	09/16/86	0001	AL	D	0.041	-
				0622	09/01/87	0001	AL	D	0.395	-
				0623	09/01/87	0001	AL	D	0.700	-
				0624	09/18/86	0001	AL	D	0.041	-
				0624	09/01/87	0001	AL	D	0.976	-
				0624	04/04/89	0001	AL	D	0.381	-
				0624	10/09/90	0001	AL	D	0.065	-
				0625	09/03/87	0001	AL	D	0.764	-
				0626	09/01/87	0001	AL	D	0.225	-
				0626	04/05/89	0001	AL	D	0.072	-
				0626	06/04/90	0001	AL	D	.042	-
				0626	10/11/90	0001	AL	D	0.03	-
				0627	09/14/86	0001	AL	D	0.053	-
				0627	09/16/87	0001	AL	D	0.176	-
				0628	09/16/87	0001	AL	D	0.204	-
				0628	04/05/89	0001	AL	D	0.066	-
				0628	06/04/90	0001	AL	D	.086	-
				0628	10/11/90	0001	AL	D	0.065	-
				0629	08/30/87	0001	AL	D	0.104	-
0629	04/18/89	0001	AL	D	0.047	-				
0630	09/15/86	0001	AL	D	0.021	-				
0630	08/30/87	0001	AL	D	0.110	-				
0630	06/04/90	0001	AL	D	.049	-				
0630	10/10/90	0001	AL	D	0.070	-				
0631	08/30/87	0001	AL	D	0.027	-				
0632	09/01/87	0001	AL	D	0.028	-				

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

TABLE 4.7 GROUNDWATER QUALITY MEASUREMENTS EXCEEDING MAXIMUM CONCENTRATION LIMITS, FLOODPLAIN ALLUVIUM, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/17/91

PARAMETER NAME	TOTAL # OF SAMP.	UNITS OF MEASURE	MAX CON. LIMIT	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	VALUE EXCEEDING MAX. CON. LIMIT	PARAMETER UNCERTAINTY
SELENIUM	143	MG/L	0.01000	0632	11/12/87	0001	AL	D	0.021	-
				0633	04/19/89	0001	AL	D	0.011	-
				0638	09/25/87	0001	AL	D	0.010	-
				0638	10/09/88	0001	AL	D	0.015	-
				0639	09/25/87	0001	AL	D	0.123	-
				0639	10/09/88	0001	AL	D	0.097	-
				0639	04/20/89	0001	AL	D	0.017	-
				0640	09/24/87	0001	AL	D	0.325	-
				0640	04/19/89	0001	AL	D	0.065	-
				0641	09/24/87	0001	AL	D	0.577	-
				0641	10/09/88	0001	AL	D	1.67	-
				0641	04/18/89	0001	AL	D	0.105	-
				0642	09/23/87	0001	AL	D	0.520	-
				0642	04/18/89	0001	AL	D	0.137	-
				0643	09/24/87	0001	AL	D	0.010	-
				0643	04/18/89	0001	AL	D	0.168	-
				0644	09/23/87	0001	AL	D	0.821	-
				0644	10/09/88	0001	AL	D	0.902	-
				0645	09/23/87	0001	AL	U	0.012	-
				0645	04/02/89	0001	AL	U	0.016	-
				0646	09/22/87	0001	AL	U	0.032	-
				0646	10/09/88	0001	AL	U	0.018	-
				0647	04/02/89	0001	AL	U	0.018	-
				0670	01/20/88	0001	AL	D	0.014	-
				0670	03/31/88	0001	AL	D	0.012	-
				0670	10/09/88	0001	AL	D	0.015	-
				0670	04/21/89	0001	AL	D	0.011	-
				0671	01/20/88	0001	AL	D	0.064	-
0671	03/31/88	0001	AL	D	0.210	-				
0671	05/17/88	0001	AL	D	0.021	-				
0671	10/09/88	0001	AL	D	0.020	-				
0671	04/21/89	0001	AL	D	0.014	-				
0672	01/20/88	0001	AL	D	0.034	-				
0672	10/09/88	0001	AL	D	0.011	-				
SELENIUM (TOTAL)	0	MG/L	0.01000	-	-	-	-	-	-	
SILVER	75	MG/L	0.05000	0616	09/15/86	0001	AL	D	0.1	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

TABLE 4.7 GROUNDWATER QUALITY MEASUREMENTS EXCEEDING MAXIMUM CONCENTRATION LIMITS, FLOODPLAIN ALLUVIUM, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/17/91

PARAMETER NAME	TOTAL # OF SAMP.	UNITS OF MEASURE	MAX CON. LIMIT	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	VALUE EXCEEDING MAX. CON. LIMIT	PARAMETER UNCERTAINTY
SILVER (TOTAL)	0	MG/L	0.05000	-	-	-	-	-	-	-
URANIUM	143	MG/L	0.04400	0602	09/18/87	0001	AL	D	0.348	-
				0603	09/03/87	0001	AL	D	3.93	-
				0603	04/06/89	0001	AL	D	2.33	-
				0604	09/03/87	0001	AL	D	0.411	-
				0607	09/19/86	0001	AL	D	0.834	-
				0607	09/01/87	0001	AL	D	1.96	-
				0608	09/18/86	0001	AL	D	1.72	-
				0608	09/22/87	0001	AL	D	3.30	-
				0608	04/03/89	0001	AL	D	3.73	-
				0608	06/01/90	0001	AL	D	3.25	-
				0608	10/07/90	0001	AL	D	2.71	-
				0609	09/17/86	0001	AL	D	2.17	-
				0609	09/21/87	0001	AL	D	3.04	-
				0610	09/18/86	0001	AL	D	1.03	-
				0610	09/21/87	0001	AL	D	0.920	-
				0610	04/03/89	0001	AL	D	1.92	-
				0610	06/01/90	0001	AL	D	1.88	-
				0610	10/07/90	0001	AL	D	1.57	-
				0611	09/19/87	0001	AL	D	0.719	-
				0612	09/17/86	0001	AL	D	0.192	-
				0612	09/19/87	0001	AL	D	0.165	-
				0612	04/03/89	0001	AL	D	0.263	-
				0613	09/18/86	0001	AL	D	1.80	-
				0613	09/18/87	0001	AL	D	0.801	-
				0614	09/18/87	0001	AL	D	0.830	-
				0614	10/11/88	0001	AL	D	1.24	-
				0614	04/03/89	0001	AL	D	1.30	-
				0614	06/01/90	0001	AL	D	1.37	-
				0614	10/07/90	0001	AL	D	1.61	-
				0615	09/18/87	0001	AL	D	1.64	-
				0615	04/03/89	0001	AL	D	4.07	-
				0615	06/01/90	0001	AL	D	3.00	-
				0615	10/09/90	0001	AL	D	2.93	-
				0616	09/15/86	0001	AL	D	0.184	-
				0616	09/18/87	0001	AL	D	0.433	-
				0616	04/04/89	0001	AL	D	0.305	-
				0616	06/01/90	0001	AL	D	0.274	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

TABLE 4.7 GROUNDWATER QUALITY MEASUREMENTS EXCEEDING MAXIMUM CONCENTRATION LIMITS, FLOODPLAIN ALLUVIUM, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/17/91

PARAMETER NAME	TOTAL # OF SAMP.	UNITS OF MEASURE	MAX CON. LIMIT	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	VALUE EXCEEDING MAX. CON. LIMIT	PARAMETER UNCERTAINTY
URANIUM	143	MG/L	0.04400	0616	10/09/90	0001	AL	D	0.348	-
				0617	09/18/87	0001	AL	D	0.355	-
				0617	04/04/89	0001	AL	D	0.373	-
				0617	06/01/90	0001	AL	D	0.327	-
				0617	10/09/90	0001	AL	D	0.466	-
				0618	09/18/87	0001	AL	D	0.415	-
				0618	10/11/88	0001	AL	D	0.424	-
				0619	09/19/87	0001	AL	D	2.34	-
				0619	04/05/89	0001	AL	D	3.14	-
				0619	06/01/90	0001	AL	D	2.31	-
				0619	10/09/90	0001	AL	D	1.99	-
				0620	09/16/86	0001	AL	D	2.34	-
				0620	08/30/87	0001	AL	D	2.11	-
				0620	04/05/89	0001	AL	D	1.60	-
				0620	06/01/90	0001	AL	D	1.11	-
				0621	09/15/86	0001	AL	D	2.39	-
				0621	09/01/87	0001	AL	D	2.19	-
				0622	09/16/86	0001	AL	D	2.50	-
				0622	09/01/87	0001	AL	D	3.07	-
				0623	09/01/87	0001	AL	D	1.67	-
				0624	09/18/86	0001	AL	D	1.34	-
				0624	09/01/87	0001	AL	D	1.84	-
				0624	04/04/89	0001	AL	D	2.57	-
				0624	10/09/90	0001	AL	D	1.02	-
				0625	09/03/87	0001	AL	D	2.11	-
				0626	09/01/87	0001	AL	D	1.22	-
				0626	04/05/89	0001	AL	D	0.560	-
				0626	06/04/90	0001	AL	D	0.227	-
				0626	10/11/90	0001	AL	D	0.264	-
				0627	09/14/86	0001	AL	D	0.948	-
				0627	09/16/87	0001	AL	D	0.388	-
				0628	09/16/87	0001	AL	D	0.405	-
				0628	04/05/89	0001	AL	D	0.314	-
				0628	06/04/90	0001	AL	D	0.196	-
0628	10/11/90	0001	AL	D	0.229	-				
0630	09/15/86	0001	AL	D	0.184	-				
0630	10/10/90	0001	AL	D	0.093	-				
0640	09/24/87	0001	AL	D	0.182	-				
0640	04/19/89	0001	AL	D	0.0890	-				

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

TABLE 4.7 GROUNDWATER QUALITY MEASUREMENTS EXCEEDING MAXIMUM CONCENTRATION LIMITS, FLOODPLAIN ALLUVIUM, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/17/91

PARAMETER NAME	TOTAL # OF SAMP.	UNITS OF MEASURE	MAX CON. LIMIT	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	VALUE EXCEEDING MAX. CON. LIMIT	PARAMETER UNCERTAINTY
URANIUM	143	MG/L	0.04400	0641	03/18/87	0001	AL	D	1.79	-
				0641	05/14/87	0001	AL	D	0.487	-
				0641	09/24/87	0001	AL	D	1.59	-
				0641	10/09/88	0001	AL	D	2.34	-
				0641	04/18/89	0001	AL	D	1.31	-
				0642	03/19/87	0001	AL	D	0.726	-
				0642	05/20/87	0001	AL	D	0.194	-
				0642	09/23/87	0001	AL	D	1.32	-
				0642	04/18/89	0001	AL	D	1.70	-
				0643	03/19/87	0001	AL	D	4.32	-
				0643	09/24/87	0001	AL	D	3.07	-
				0643	04/18/89	0001	AL	D	1.82	-
				0644	03/18/87	0001	AL	D	1.63	-
				0644	05/20/87	0001	AL	D	0.785	-
				0644	09/23/87	0001	AL	D	1.41	-
				0644	10/09/88	0001	AL	D	1.13	-
				0645	04/02/89	0001	AL	U	0.0663	-
				0646	03/18/87	0001	AL	U	0.0848	-
				0646	05/16/87	0001	AL	U	0.0875	-
				0646	10/09/88	0001	AL	U	0.0583	-
				0647	03/18/87	0001	AL	U	0.245	-
0647	05/17/87	0001	AL	U	0.252	-				
0647	04/02/89	0001	AL	U	0.125	-				
0671	01/20/88	0001	AL	D	0.0671	-				
0672	01/20/88	0001	AL	D	0.0597	-				
URANIUM (TOTAL)	0	MG/L	0.04400	-	-	-	-	-	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

DATA FILE NAME: M:\DART\SHPO1\GWQ10013.DAT

TABLE 4.8 GROUNDWATER QUALITY DATA BY LOCATION
 DAKOTA SANDSTONE WELL, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 LOCATION: 0648
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 03/17/87 TO 09/20/87
 REPORT DATE: 05/17/91

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	03/17/87	0001	MG/L CaCO3		81.		-	-
	05/16/87	0001			65.		-	-
	09/20/87	0001			66.		-	-
ALUMINUM	03/17/87	0001	MG/L	<	0.1		0.1	-
	05/16/87	0001			0.08	c	0.08	-
	09/20/87	0001			0.09	c	0.09	-
AMMONIUM	03/17/87	0001	MG/L		0.4		0.1	-
	05/16/87	0001			0.5		0.1	-
	09/20/87	0001			0.4		0.1	-
ANTIMONY	03/17/87	0001	MG/L	<	0.003		0.003	-
	05/16/87	0001			0.035		0.003	-
	09/20/87	0001			0.042		0.003	-
ARSENIC	03/17/87	0001	MG/L		0.003	c	0.003	-
	05/16/87	0001		<	0.001		0.01	-
	09/20/87	0001			0.016		0.01	-
BARIUM	03/17/87	0001	MG/L	<	0.1		0.1	-
	05/16/87	0001			0.01	c	0.01	-
	09/20/87	0001			0.02	c	0.02	-
BORON	03/17/87	0001	MG/L		0.25		0.1	-
	05/16/87	0001			0.14		0.1	-
	09/20/87	0001			0.15		0.1	-
BROMIDE	09/20/87	0001	MG/L	<	0.1	c	0.1	-
CADMIUM	03/17/87	0001	MG/L	<	0.001		0.001	-
	05/16/87	0001			0.008		0.001	-
	09/20/87	0001		<	0.005	c	0.005	-
CALCIUM	03/17/87	0001	MG/L		105.		0.01	-
	05/16/87	0001			111.		0.01	-
	09/20/87	0001			107.		0.01	-
CHLORIDE	03/17/87	0001	MG/L		36.6		1.0	-
	05/16/87	0001			56.8		1.0	-
	09/20/87	0001			59.0		1.0	-
CHROMIUM	03/17/87	0001	MG/L		0.02		0.01	-
	05/16/87	0001			0.06		0.01	-
	09/20/87	0001		<	0.01		0.01	-
COBALT	03/17/87	0001	MG/L		0.06		0.05	-
	05/16/87	0001		<	0.01		0.05	-
	09/20/87	0001		<	0.01		0.05	-
COPPER	03/17/87	0001	MG/L		0.01	c	0.01	-
	05/16/87	0001		<	0.01		0.02	-
	09/20/87	0001		<	0.01		0.02	-
FLUORIDE	03/17/87	0001	MG/L		2.11		0.1	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

TABLE 4.8 GROUNDWATER QUALITY DATA BY LOCATION
 DAKOTA SANDSTONE WELL, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 LOCATION: 0648
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 03/17/87 TO 09/20/87
 REPORT DATE: 05/17/91

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
FLUORIDE	05/16/87	0001	MG/L		2.12		0.1	-
	09/20/87	0001			1.80		0.1	-
GROSS ALPHA	09/20/87	0001	PCI/L		1.		0.2	11.
GROSS BETA	09/20/87	0001	PCI/L		35.		1.0	13.
IRON	03/17/87	0001	MG/L		0.05		0.03	-
	05/16/87	0001			0.12		0.03	-
	09/20/87	0001			0.02	c	0.02	-
LEAD	03/17/87	0001	MG/L	<	0.001		0.01	-
	05/16/87	0001			0.05		0.01	-
	09/20/87	0001		<	0.01		0.01	-
LEAD-210	03/17/87	0001	PCI/L	<	1.4	b	1.5	1.4
	05/16/87	0001			0.1	c	1.30000	1.2
	09/20/87	0001			0.7		1.5	0.9
MAGNESIUM	03/17/87	0001	MG/L		13.6		0.001	-
	05/16/87	0001			13.5		0.001	-
	09/20/87	0001			13.4		0.001	-
MANGANESE	03/17/87	0001	MG/L		0.10		0.01	-
	05/16/87	0001			0.10		0.01	-
	09/20/87	0001			0.09		0.01	-
MERCURY	09/20/87	0001	MG/L		0.0006		0.0002	-
MOLYBDENUM	03/17/87	0001	MG/L	<	0.1	c	0.1	-
	05/16/87	0001		<	0.01		0.01	-
	09/20/87	0001			0.03		0.01	-
NET GROSS ALPHA *	09/20/87	0001	PCI/L		-0.03		-	-
NICKEL	03/17/87	0001	MG/L		0.07		0.04	-
	05/16/87	0001		<	0.01		0.04	-
	09/20/87	0001		<	0.01		0.04	-
NITRATE	03/17/87	0001	MG/L	<	0.1		1.0	-
	05/16/87	0001			0.4	c	0.4	-
	09/20/87	0001		<	0.1		1.0	-
NITRITE	03/17/87	0001	MG/L	<	0.1		0.1	-
	05/16/87	0001		<	0.1		0.1	-
	09/20/87	0001		<	0.1		0.1	-
PH	03/17/87	0001	SU		7.95		-	-
	05/16/87	0001			8.11		-	-
	09/20/87	0001			8.11		-	-
PHOSPHATE	03/17/87	0001	MG/L		0.15		0.1	-

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

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: b - CHANGED PARAMETER VALUE
 c - CHANGED DETECTION LIMIT

TABLE 4.8 GROUNDWATER QUALITY DATA BY LOCATION
 DAKOTA SANDSTONE WELL, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 LOCATION: 0648
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 03/17/87 TO 09/20/87
 REPORT DATE: 05/17/91

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PHOSPHATE	05/16/87	0001	MG/L		0.61		0.1	-
	09/20/87	0001		<	0.1		0.1	-
POLONIUM-210	03/17/87	0001	PCI/L		0.3	c	0.60000	0.3
	05/16/87	0001		<	0.4	d	0.1	0.4
	09/20/87	0001			0.1	c	0.70000	0.6
POTASSIUM	03/17/87	0001	MG/L		7.72		0.01	-
	05/16/87	0001			7.79		0.01	-
	09/20/87	0001			7.34		0.01	-
RADIUM-226	03/17/87	0001	PCI/L		0.6	c	0.90000	0.3
	05/16/87	0001			0.3	c	0.50000	0.2
	09/20/87	0001			0.3	c	0.50000	0.2
RADIUM-226 + RADIUM-228	03/17/87	0001	PCI/L		1.60		-	-
	05/16/87	0001			1.50		-	-
	09/20/87	0001			1.30		-	-
RADIUM-228	03/17/87	0001	PCI/L		1.0		1.0	0.9
	05/16/87	0001			1.2		1.0	1.3
	09/20/87	0001			1.0		1.0	3.0
SELENIUM	03/17/87	0001	MG/L	<	0.002		0.005	-
	05/16/87	0001		<	0.001		0.005	-
	09/20/87	0001			0.046		0.005	-
SILICA - SiO2	03/17/87	0001	MG/L		15.1		2.0	-
	05/16/87	0001			19.5		2.0	-
	09/20/87	0001			14.4		2.0	-
SODIUM	03/17/87	0001	MG/L		879.		0.002	-
	05/16/87	0001			917.		0.002	-
	09/20/87	0001			842.		0.002	-
SPECIFIC CONDUCTANCE	03/17/87	0001	UMHO/CM		3050.		-	-
	05/16/87	0001			3325.		-	-
	09/20/87	0001			2900.		-	-
STRONTIUM	03/17/87	0001	MG/L		11.4		0.1	-
	05/16/87	0001			7.50		0.1	-
	09/20/87	0001			10.9		0.1	-
SULFATE	03/17/87	0001	MG/L		2050.		0.1	-
	05/16/87	0001			2100.		0.1	-
	09/20/87	0001			1960.		0.1	-
SULFIDE	09/20/87	0001	MG/L	<	0.1		0.1	-
TEMPERATURE	03/17/87	0001	C - DEGREE		30.		-	-
	05/16/87	0001			31.0		-	-
	09/20/87	0001			30.0		-	-
THORIUM-230	03/17/87	0001	PCI/L	<	0.4	d	0.1	0.4

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT
 d - CHANGED DETECTION LIMIT AND PARAMETER VALUE

TABLE 4.8 GROUNDWATER QUALITY DATA BY LOCATION
 DAKOTA SANDSTONE WELL, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 LOCATION: 0648
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 03/17/87 TO 09/20/87
 REPORT DATE: 05/17/91

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
THORIUM-230	05/16/87	0001	PCI/L	<	0.4	d	0.1	0.4
	09/20/87	0001			0.1	c	0.50000	0.4
TIN	03/17/87	0001	MG/L	<	0.009		0.005	-
	05/16/87	0001			0.005		0.005	-
	09/20/87	0001			0.020		0.005	-
TOTAL DISSOLVED SOLIDS	03/17/87	0001	MG/L		3110.		10.0	-
	05/16/87	0001			3100.		10.0	-
	09/20/87	0001			3100.		10.0	-
TOTAL ORGANIC CARBON	03/17/87	0001	MG/L		11.5		1.0	-
	05/16/87	0001			41.1		1.0	-
	09/20/87	0001			14.2		1.0	-
URANIUM	03/17/87	0001	MG/L	<	0.0003		0.003	-
	05/16/87	0001			0.0003		0.003	-
	09/20/87	0001			0.0003		0.003	-
VANADIUM	03/17/87	0001	MG/L	<	0.2	c	0.2	-
	05/16/87	0001			0.01		0.01	-
	09/20/87	0001			0.02		0.01	-
ZINC	03/17/87	0001	MG/L	<	0.005		0.005	-
	05/16/87	0001			0.005		0.005	-
	09/20/87	0001			0.005		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT
 d - CHANGED DETECTION LIMIT AND PARAMETER VALUE

DATA FILE NAME: M:\DART\SHP01\GWR10014.DAT

TABLE 4.9 GROUNDWATER QUALITY STATISTICS BY PARAMETER
 DAKOTA SANDSTONE WELL, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 03/17/87 TO 09/20/87
 REPORT DATE: 05/17/91

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								
3	65.0000	81.0000	66.0000		NA	NA	0.0	NA	NA	UNKNOWN	1	
ALUMINUM				MG/L								
3	0.0500	0.0900	0.0800		NA	NA	33.3	NA	NA	UNKNOWN	1	
AMMONIUM				MG/L								
3	0.4000	0.5000	0.4000		NA	NA	0.0	NA	NA	UNKNOWN	1	
ANTIMONY				MG/L								
3	0.0015	0.0420	0.0350		NA	NA	33.3	NA	NA	UNKNOWN	1	
ARSENIC				MG/L								
3	0.0030	0.0160	0.0050		NA	NA	33.3	NA	NA	UNKNOWN	1	
BARIUM				MG/L								
3	0.0100	0.0500	0.0200		NA	NA	33.3	NA	NA	UNKNOWN	1	
BORON				MG/L								
3	0.1400	0.2500	0.1500		NA	NA	0.0	NA	NA	UNKNOWN	1	
BROMIDE				MG/L								
1	0.0500	0.0500	0.0500		NA	NA	100.0	NA	NA	UNKNOWN	1	
CADMIUM				MG/L								
3	0.0005	0.0080	0.0025		NA	NA	66.7	NA	NA	UNKNOWN	1	
CALCIUM				MG/L								
3	105.0000	111.0000	107.0000		NA	NA	0.0	NA	NA	UNKNOWN	1	
CHLORIDE				MG/L								
3	36.6000	59.0000	56.8000		NA	NA	0.0	NA	NA	UNKNOWN	1	

* 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.

TABLE 4.9 GROUNDWATER QUALITY STATISTICS BY PARAMETER
 DAKOTA SANDSTONE WELL, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 03/17/87 TO 09/20/87
 REPORT DATE: 05/17/91

PARAMETER NAME				UNITS	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 95% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MINIMUM					MAXIMUM *			
CHROMIUM				MG/L								
3	0.0050	0.0600	0.0200	NA	NA	NA	33.3	NA	NA	UNKNOWN	1	
COBALT				MG/L								
3	0.0250	0.0600	0.0250	NA	NA	NA	66.7	NA	NA	UNKNOWN	1	
COPPER				MG/L								
3	0.0100	0.0100	0.0100	NA	NA	NA	66.7	NA	NA	UNKNOWN	1	
FLUORIDE				MG/L								
3	1.8000	2.1200	2.1100	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
GROSS ALPHA				PCI/L								
1	1.0000	1.0000	1.0000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
GROSS BETA				PCI/L								
1	35.0000	35.0000	35.0000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
IRON				MG/L								
3	0.0200	0.1200	0.0500	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
LEAD				MG/L								
3	0.0050	0.0500	0.0050	NA	NA	NA	66.7	NA	NA	UNKNOWN	1	
LEAD-210				PCI/L								
3	0.1000	0.7500	0.7000	NA	NA	NA	33.3	NA	NA	UNKNOWN	1	
MAGNESIUM				MG/L								
3	13.4000	13.6000	13.5000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
MANGANESE				MG/L								
3	0.0900	0.1000	0.1000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	

* 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.

TABLE 4.9 GROUNDWATER QUALITY STATISTICS BY PARAMETER
 DAKOTA SANDSTONE WELL, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 03/17/87 TO 09/20/87
 REPORT DATE: 05/17/91

PARAMETER NAME				UNITS	MEAN	STANDARD DEVIATION	COEFF. OF VARIATION	% OF NON DETECTS	STATISTICAL RANGE 95% CONFIDENCE INTERVAL		DISTRIBUTION TYPE	FOOT NOTE
# OF SAMP	MINIMUM	MAXIMUM	MEDIAN	MINIMUM					MAXIMUM *			
MERCURY				MG/L								
1	0.0006	0.0006	0.0006	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
MOLYBDENUM				MG/L								
3	0.0050	0.0500	0.0300	NA	NA	NA	66.7	NA	NA	UNKNOWN	1	
NET GROSS ALPHA ***				PCI/L								
1	-0.0300	-0.0300	-0.0300	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
NICKEL				MG/L								
3	0.0200	0.0700	0.0200	NA	NA	NA	66.7	NA	NA	UNKNOWN	1	
NITRATE				MG/L								
3	0.4000	0.5000	0.5000	NA	NA	NA	66.7	NA	NA	UNKNOWN	1	
NITRITE				MG/L								
3	0.0500	0.0500	0.0500	NA	NA	NA	100.0	NA	NA	UNKNOWN	1	
PHOSPHATE				MG/L								
3	0.0500	0.6100	0.1500	NA	NA	NA	33.3	NA	NA	UNKNOWN	1	
POLONIUM-210				PCI/L								
3	0.0500	0.3000	0.1000	NA	NA	NA	33.3	NA	NA	UNKNOWN	1	
POTASSIUM				MG/L								
3	7.3400	7.7900	7.7200	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
RADIUM-226				PCI/L								
3	0.3000	0.6000	0.3000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	

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

* 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.

TABLE 4.9 GROUNDWATER QUALITY STATISTICS BY PARAMETER
 DAKOTA SANDSTONE WELL, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 03/17/87 TO 09/20/87
 REPORT DATE: 05/17/91

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 *			
RADIUM-228				PCI/L								
3	1.0000	1.2000	1.0000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
SELENIUM				MG/L								
3	0.0025	0.0460	0.0025	NA	NA	NA	66.7	NA	NA	UNKNOWN	1	
SILICA - SiO2				MG/L								
3	14.4000	19.5000	15.1000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
SODIUM				MG/L								
3	842.0000	917.0000	879.0000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
SPECIFIC CONDUCTANCE				UMHO/CM								
3	2900.0000	3325.0000	3050.0000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
STRONTIUM				MG/L								
3	7.5000	11.4000	10.9000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
SULFATE				MG/L								
3	1960.0000	2100.0000	2050.0000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
SULFIDE				MG/L								
1	0.0500	0.0500	0.0500	NA	NA	NA	100.0	NA	NA	UNKNOWN	1	
TEMPERATURE				C - DEGREE								
3	30.0000	31.0000	30.0000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
THORIUM-230				PCI/L								
3	0.0500	0.1000	0.0500	NA	NA	NA	66.7	NA	NA	UNKNOWN	1	
TIN				MG/L								
3	0.0025	0.0200	0.0090	NA	NA	NA	33.3	NA	NA	UNKNOWN	1	

* 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.

TABLE 4.9 GROUNDWATER QUALITY STATISTICS BY PARAMETER
 DAKOTA SANDSTONE WELL, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 03/17/87 TO 09/20/87
 REPORT DATE: 05/17/91

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 *			
TOTAL DISSOLVED SOLIDS				MG/L								
3	3100.0000	3110.0000	3100.0000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
TOTAL ORGANIC CARBON				MG/L								
3	11.5000	41.1000	14.2000	NA	NA	NA	0.0	NA	NA	UNKNOWN	1	
URANIUM				MG/L								
3	0.0015	0.0015	0.0015	NA	NA	NA	100.0	NA	NA	UNKNOWN	1	
VANADIUM				MG/L								
3	0.0050	0.1000	0.0200	NA	NA	NA	66.7	NA	NA	UNKNOWN	1	
ZINC				MG/L								
3	0.0025	0.0025	0.0025	NA	NA	NA	100.0	NA	NA	UNKNOWN	1	

* 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.

INPUT DATA FILENAME: N:\DART\SHPO1\GWQ10017.DAT

TABLE 4.10 GROUNDWATER QUALITY MEASUREMENTS EXCEEDING MAXIMUM CONCENTRATION LIMITS, DAKOTA SANDSTONE WELL, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 03/17/87 TO 09/20/87
 REPORT DATE: 05/28/91

PARAMETER NAME	TOTAL # OF SAMP.	UNITS OF MEASURE	MAX CON. LIMIT	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	VALUE EXCEEDING MAX. CON. LIMIT	PARAMETER UNCERTAINTY
ARSENIC	3	MG/L	0.05000	-	-	-	-	-	-	-
ARSENIC (TOTAL)	0	MG/L	0.05000	-	-	-	-	-	-	-
BARIUM	3	MG/L	1.00000	-	-	-	-	-	-	-
BARIUM (TOTAL)	0	MG/L	1.00000	-	-	-	-	-	-	-
CADMIUM	3	MG/L	0.01000	-	-	-	-	-	-	-
CADMIUM (TOTAL)	0	MG/L	0.01000	-	-	-	-	-	-	-
CHROMIUM	3	MG/L	0.05000	0648	05/16/87	0001	KD	N	0.06	-
CHROMIUM (TOTAL)	0	MG/L	0.05000	-	-	-	-	-	-	-
GROSS ALPHA	1	PCI/L	15.00000	-	-	-	-	-	-	-
GROSS ALPHA (TOTAL)	0	PCI/L	15.00000	-	-	-	-	-	-	-
LEAD	3	MG/L	0.05000	0648	05/16/87	0001	KD	N	0.05	-
LEAD (TOTAL)	0	MG/L	0.05000	-	-	-	-	-	-	-
MERCURY	1	MG/L	0.00200	-	-	-	-	-	-	-
MERCURY (TOTAL)	0	MG/L	0.00200	-	-	-	-	-	-	-
MOLYBDENUM	3	MG/L	0.10000	0648	03/17/87	0001	KD	N	0.1	-
MOLYBDENUM (TOTAL)	0	MG/L	0.10000	-	-	-	-	-	-	-
NET GROSS ALPHA *	1	PCI/L	15.00000	-	-	-	-	-	-	-
NET GROSS ALPHA (TOTAL) **	0	PCI/L	15.00000	-	-	-	-	-	-	-

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

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

FORMATION OF COMPLETION CODE:
 KD - DAKOTA SANDSTONE

FLOW RELATIONSHIP CODE:
 N - UNKNOWN

TABLE 4.10 GROUNDWATER QUALITY MEASUREMENTS EXCEEDING MAXIMUM CONCENTRATION LIMITS, DAKOTA SANDSTONE WELL, SHIPROCK, NEW MEXICO, SITE
 SITE: SHP01 SHIPROCK
 03/17/87 TO 09/20/87
 REPORT DATE: 05/28/91

PARAMETER NAME	TOTAL # OF SAMP.	UNITS OF MEASURE	MAX CON. LIMIT	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	VALUE EXCEEDING MAX. CON. LIMIT	PARAMETER UNCERTAINTY
NITRATE	3	MG/L	44.00000	-	-	-	-	-	-	-
NITRATE (TOTAL)	0	MG/L	44.00000	-	-	-	-	-	-	-
RA-226 & RA-228	3	PCI/L	5.00000	-	-	-	-	-	-	-
RA-226 & RA-228 (TOTAL)	0	PCI/L	5.00000	-	-	-	-	-	-	-
SELENIUM	3	MG/L	0.01000	0648	09/20/87	0001	KD	N	0.046	-
SELENIUM (TOTAL)	0	MG/L	0.01000	-	-	-	-	-	-	-
SILVER	0	MG/L	0.05000	-	-	-	-	-	-	-
SILVER (TOTAL)	0	MG/L	0.05000	-	-	-	-	-	-	-
URANIUM	3	MG/L	0.04400	-	-	-	-	-	-	-
URANIUM (TOTAL)	0	MG/L	0.04400	-	-	-	-	-	-	-

FORMATION OF COMPLETION CODE:
 KD - DAKOTA SANDSTONE

FLOW RELATIONSHIP CODE:
 N - UNKNOWN

DATA FILE NAME: M:\DART\SHPO1\GWQ10017.DAT

5.0 RISK ANALYSIS

This section presents an analysis of the potential human health and ecological risks associated with exposure to contaminants present in waters of Shiprock seeps 425 and 426. The seeps emanate from the Mancos Shale escarpment and flow into a swampy area of the San Juan River floodplain. This area, estimated in the last sampling effort to be approximately 200 feet by 400 feet, is bordered on the southwest by the confluence of Bob Lee Wash and the floodplain (Figure 2.1). As noted in Section 3.2, Bob Lee Wash is fed uncontaminated water at a rate of approximately 60 gpm from an artesian well completed in the Dakota Sandstone Formation. Flow from Bob Lee Wash appears to be the source of most of the standing water on the floodplain alluvium.

The results of this human health and ecological risk assessment are summarized as follows:

- o Limited ingestion of seep water (15 liters per year, or 1/yr) by humans is not expected to result in adverse non-carcinogenic effects. The carcinogenic risk from drinking 15 l/yr of seep water for one year is estimated to be 8.7×10^{-7} , i.e., less than one additional lifetime occurrence of cancer per million people per year of exposure.
- o The human exposure pathway involving ingestion of meat from sheep exposed to seep contaminants while grazing is insignificant when compared to the small exposure via the direct pathway of ingestion of water by humans.
- o Members of some species of freshwater plants and invertebrates living in the immediate vicinity of seep 425 may be adversely affected by selenium and iron concentrations present in the seep water. However, the overall impacts of seep contamination to any freshwater aquatic species are expected to be insignificant. Information is not available on the potential toxicity of uranium to freshwater aquatic organisms.
- o Some members of species that obtain a large percentage of their food from the immediate vicinity of seep 425 (e.g., reptiles, small mammals, and certain birds) may be adversely affected by selenium contamination. However, because elevated selenium concentrations are expected to be restricted to a localized area near the seep, only a few individuals are likely to be exposed. Overall impacts of selenium concentrations at seep 425 to any species are expected to be insignificant.
- o Sheep grazing in the seep areas and drinking 25 percent of their average daily intake of water from the seeps are not expected to suffer toxic effects due to seep contaminants.

5.1 HUMAN HEALTH ASSESSMENT

The human health assessment was carried out for non-carcinogenic as well as carcinogenic risks utilizing exposure equations and assumptions, and risk factors drawn primarily from EPA guidance documentation on human

health risk assessments (EPA, 1990; EPA, 1989a,b). In the following discussion, water from the seeps is assumed to flow from the escarpment down to the floodplain, where humans and wildlife may be exposed.

5.1.1 Contaminants of concern

The January 8, 1991, sampling and analysis of seeps 425 and 426 indicated the presence of several constituents associated with the tailings materials. Three contaminants (nitrate, selenium, and uranium) were detected in seep water at concentrations exceeding the MCLs, and were initially identified as relevant to potential human health risks posed by the seeps (Table 5.1).

Of the three contaminants that exceed the MCLs, selenium and uranium were selected as the primary contaminants of concern. Nitrate, which is known to be acutely toxic (and potentially fatal) to infants at the concentrations measured in the seeps, would be of concern if infants were expected to consume seep water. In this assessment, it is assumed that seep water will not be used for domestic purposes and that infants will not be taken into the area of the seeps where they could consume seep water. Exposed individuals are assumed to be children and adults. The exposure calculations for non-carcinogenic risks presented below conservatively assume exposure to a child between six and nine years of age.

5.1.2 Exposure assessment

The seeps are situated in an area of the San Juan River floodplain that is expected to experience limited human use, as well as some use by livestock. Under these circumstances, there are two relevant pathways: 1) occasional ingestion of seep water by human visitors, and 2) ingestion of products derived from animals that graze in the seep area.

Site-specific survey data on the rate of visitation and the types of activity carried out in the area of the seeps is not available. In the absence of site-specific data, estimates of human exposures via ingestion of seep water will necessarily contain some uncertainty. In this analysis it was assumed that an individual would visit the seeps area 15 times per year and consume one liter of seep water per visit, thus ingesting 15 liters of seep water per year. This assumption is likely to be conservative because access to the floodplain in the vicinity of the site is restricted, and the UMTRA Project site is fenced and marked with radioactive hazard signs. Furthermore, the floodplain is adjacent to other sources of more potable water that include the discharge of the Dakota Sandstone artesian well into Bob Lee Wash.

For the animal products ingestion pathway, it is assumed that sheep, the major type of livestock raised in the area, are exposed to seep contaminants primarily by drinking contaminated seep water on a daily basis. Humans are then assumed to be exposed to seep contaminants indirectly by eating the meat of the exposed sheep.

Although additional contaminant uptake by sheep could occur due to browsing upon seep-fed vegetation, uptake via this mechanism is expected to be insignificant. The small quantity of vegetation supported by the seeps (as compared with vegetation supported by the San Juan River and Bob Lee Wash) would constitute only a small fraction of the grazing animal's diet.

The equation for estimating contaminant intakes due to the above exposure pathways is given below:

$$\text{Intake (mg/kg-day)} = (\text{Cm} \times \text{IR}) \div \text{BW}$$

where:

Cm = Average contaminant concentration in water (mg/l) or meat (milligrams per kilogram, or mg/kg).

IR = Human average daily ingestion rate for water (15 l/yr \div 365 day/yr) or meat (48 kg/yr \div 365 day/yr) (NRC, 1977).

BW = Average body weight for a child aged six to nine years (36 kg) (EPA, 1989a).

The estimated concentrations of contaminants in sheep meat were calculated as follows:

$$\text{Concentration in meat (mg/kg)} = \text{Ff} \times \text{Cw} \times \text{Iw}$$

where:

Ff = Uptake factor for animal flesh (0.0002 day/kg for uranium, 0.015 day/kg for selenium) (ORNL, 1984).

Cw = Average contaminant concentration in seep water (0.611 mg/l for uranium, 0.113 mg/l for selenium).

Iw = Water ingestion rate for sheep (5.6 l/day) (USDA, 1952).

The estimated concentrations of uranium and selenium in the meat of exposed sheep are 6.8×10^{-4} mg/kg and 9.5×10^{-3} mg/kg, respectively. The estimated human intake of contaminants based upon ingestion of seep water and sheep meat are given in Table 5.2.

5.1.3 Risk characterization

Non-carcinogenic risks are typically characterized by comparing the estimated daily intake of a substance to its toxicologically based reference dose value (the dose above which adverse effects are expected). A comparison is made for each contaminant by taking the ratio of the estimated intake to the reference dose. This ratio is called the hazard quotient. A screening analysis for non-carcinogenic risk due to multiple chemicals can be undertaken by adding chemical-specific hazard quotients to give the hazard index. A hazard index of less than 1.0 indicates a low potential for adverse non-carcinogenic health effects.

The calculation of hazard quotients was accomplished as follows:

$$\text{Hazard quotient} = \frac{\text{Intake (mg/kg-day)}}{\text{Reference dose (0.003 mg/kg-day for both uranium and selenium) (EPA, 1990)}}$$

The estimated hazard quotients for human exposure to the seeps near the Shiprock site are given in Table 5.3.

The total hazard index of 0.3 is mostly the result of direct ingestion of the seep water, with the meat ingestion pathway contributing a relatively minor amount. A hazard index of less than 1.0 indicates that there is a low potential for adverse non-carcinogenic health effects to individuals exposed to seep contaminants given the exposure conditions specified above.

5.1.4 Radiological risks

As a first approximation, the lifetime risk of cancer due to radionuclide exposure may be estimated by multiplying the total intake of a radionuclide by the radionuclide slope factor (EPA, 1989a). The slope factor for a radionuclide represents the age-averaged lifetime cancer risk per unit intake in picocuries (EPA, 1990). This section will estimate radiological risks to humans due to exposure to seep contaminants via the seep water ingestion and meat ingestion pathways.

The major radiological contaminants of concern in seep waters are uranium-234 (U-234) and uranium-238 (U-238). Although concentrations of radionuclides were not available for the January 8, 1991, sampling event, the concentrations of U-238 and U-234 in picocuries per liter (pCi/l) may be estimated as follows.

$$\text{Concentration of U-238 or U-234 (pCi/l)} = 350 \text{ (pCi/mg)} \times \text{Concentration natural uranium (0.61 mg/l)} = 213.5 \text{ pCi/l.}$$

It is expected that the concentrations of the other principal radionuclides in the U-238 decay chain (thorium-230, radium-226, polonium-210, and lead-210) are sufficiently low that they would contribute an insignificant amount to the risk estimate. This assumption is supported by radionuclide data obtained from groundwater samples from terrace alluvium monitor wells 601, 602 and 603, which are likely to have radionuclide concentrations similar to those of the seeps. In these wells, concentrations of U-238 and U-234 (in pCi/l) generally exceed concentrations of lead-210, polonium-210, radium-226, and thorium-230 by two orders of magnitude or more.

The lifetime radiological risk due to the intake of uranium was estimated for an individual. Because there is a relatively large amount of uncertainty regarding the number of years that an individual could be expected to visit the area of the seeps in a lifetime, the radiological risk has been calculated for a single year of exposure. Estimates of risk due to several years of exposure may be obtained by simple proportion. The exposure assumptions used in the calculation of radiological intakes are the same as those presented

in Section 5.1.2 except that the intake of radionuclides were not divided by body weight (EPA, 1989a). The intake equation is given below:

$$\text{Total intake (pCi)} = C_m \times IR \times ET$$

where:

- C_m = Radionuclide concentration in water (pCi/l) or meat (pCi/kg).
 IR = Human ingestion rate for water (15 l/yr) or meat (48 kg/yr).
 ET = Exposure time (one year).

The concentrations of U-238 and U-234 were estimated from the natural uranium concentration (0.61 parts per million natural uranium corresponds to 213 pCi/l for each of the two radionuclides). The intakes of U-238 and U-234 were each 3202 pCi for seep water ingestion, and 11.4 pCi for the ingestion of meat. The radiological slope factors for U-238 and U-234 are 1.3×10^{-10} per pCi and 1.4×10^{-10} per pCi, respectively. The resulting risks are given in Table 5.4. The total radiological risk for one year of exposure is 8.7×10^{-7} , i.e., less than one additional lifetime occurrence of cancer per million people per year of exposure.

5.2 ECOLOGICAL RISK ASSESSMENT

The potential ecological risk due to seep contamination at the Shiprock site is expected to be limited for two reasons:

- o There is very little water flowing from these seeps. Seep 425 has an approximate flow rate of one to two liters per minute and seep 426 has a flow rate of approximately four liters per minute.
- o Seep water is present on the surface in very small areas. Seep 425 flows from the escarpment at a height of 15 feet above the floodplain and disappears into the colluvium at the foot of the escarpment. At this point, water from Seep 425 is likely to become part of the floodplain groundwater. Seep 426 emanates from the escarpment at an approximate height of five feet above the floodplain and flows overland for approximately 50 feet before emptying into the Bob Lee Wash.

5.2.1 Toxicity to wildlife

The EPA has established contaminant concentration levels called Ambient Water Quality Criteria (AWQC) that are expected to be protective of 95 percent of all aquatic species: fish, aquatic invertebrates, and plants (EPA, 1986). Contaminants present in the seeps and for which AWQCs are defined are listed in Table 5.5 along with the AWQC value and the measured concentrations in seep water.

Concentrations of iron and selenium exceed AWQC at seep 425, while AWQC are not exceeded in seep 426. Thus, organisms that come into contact with seep water from seep 425 may be adversely affected.

Selenium contamination from seep 425 could also result in toxicity to individuals of other species in the small riparian community which is likely to exist in the vicinity of the seeps. Environmental concentrations of selenium in the range of 0.05 to 0.3 mg/l, have been shown to bioaccumulate in aquatic plants, invertebrates, frogs, snakes, birds, and mammals, resulting in measurable adverse effects in certain species (Ohlendorf, 1989).

Because potential selenium contamination is expected to be confined to a small region in the seep area, animals which have a greater potential to experience adverse effects are those with small territories (e.g., frogs, toads, lizards, small mammals, and birds). Members of these species living close to seep 425 could obtain a significant portion of their food (mostly insects and vegetation) from the seep-affected area. However, because only a limited number of individuals could experience adverse effects, none of the species involved should be significantly affected.

Members of species having a wider feeding range (e.g., raptors or red foxes) should not be adversely affected by seep contamination because only a small portion of their diet would be derived from the seep area.

The ecological risks of other potential contaminants of concern such as uranium or nitrate were not evaluated due to lack of data on potential food chain transfer mechanisms.

5.2.2 Toxicity screening for livestock

Four contaminants detected in seep water are of concern with respect to livestock protection: fluoride, nitrate, selenium, and uranium. The major pathway of concern to livestock is the drinking water pathway. Exposure to livestock due to ingestion of seep-fed plants is expected to be a relatively minor pathway due to the limited quantity of vegetation supported by the seeps. Table 5.6 lists seep concentrations of the contaminants of concern to livestock, concentrations at which acute and chronic toxicities are manifested, and recommended safe concentrations.

The available data indicate that selenium concentrations in seep 425 exceed the recommended safe concentration for livestock drinking water by a factor of four, but are below concentrations at which chronic selenium toxicity has been observed. It is considered unlikely that livestock grazing and drinking at seep 425 would suffer from selenium poisoning for the following reasons:

- o The recommended safe concentration is based upon 100 percent consumption. Livestock access to the seeps is limited because they are fenced off. In addition water is available from the nearby San Juan River and Bob Lee Wash. Therefore, livestock are expected to obtain little if any water from the seeps.
- o Although seep selenium concentrations exceed the recommended level, they are less than historically observed toxic levels (Eisler, 1985).

Uranium concentrations are elevated in both seeps. Data for the toxicity of uranium to livestock are not currently available. However, the potential for uranium toxicity to livestock drinking seep water can be estimated by utilizing available toxicological data for rabbits and applying safety factors to account for variability in sensitivity within and between species. A factor is also used to convert from a level of exposure at which effects are probable to a level of exposure at which no effects are expected.

Thus, a Lowest Observed Adverse Effect Level (LOAEL) for uranium in rabbits of 2.8 mg/kg-day (EPA 1989c) was multiplied by a factor of 0.2 to account for inter-species variability, by another factor of 0.2 for intra-species variability, and by a final factor of 0.2 to convert a LOAEL to a No Observed Adverse Effect Level (NOAEL). The resulting critical toxicity value for livestock is an intake of 0.022 mg/kg-day. Intake of uranium below this level is not expected to result in toxicity, even to sensitive individuals.

The methodology used here to derive a critical toxicity factor for uranium in livestock parallels standard EPA methods for developing reference doses for humans (EPA, 1989a). Animal critical toxicity factors are less conservative than human reference doses because less protective safety factors are used.

Given a critical toxicity value of 0.022 mg/kg-day, and considering the restricted access to the seeps, it is unlikely that grazing sheep would consume sufficient seep water to result in toxicity. For example, a 50 kg sheep drinking an average of 1.4 liters per day of seep water from the two seeps (25 percent of its average daily water consumption) would have a uranium intake of 0.017 mg/kg-day, which is lower than the critical toxicity value derived above.

Table 5.1 Seep water concentrations of selected contaminants, Shiprock, New Mexico, site

Concentration (in mg/l)			
Parameter	Seep 425	Seep 426	MCL (in mg/l)
Nitrate	290	328	44
Selenium	0.2	<0.05	0.01
Uranium	0.509	0.712	0.044

Table 5.2 Average daily contaminant intake, Shiprock, New Mexico site

Contaminant Intake (mg/kg-day)		
Exposure pathway	Uranium	Selenium
Seep water ingestion	7.0×10^{-4}	1.3×10^{-4}
Meat ingestion	2.5×10^{-6}	3.4×10^{-5}

Table 5.3 Hazard quotients and hazard index, Shiprock, New Mexico, site

Contaminant ^a		
Exposure pathway	Uranium	Selenium
Seep water ingestion	0.23	0.04
Meat ingestion	0.001	0.012
Total hazard index = 0.3		

^aThe hazard quotient represents the ratio (unitless) of estimated intake in mg/kg/-day to reference dose in mg/kg-day.

Table 5.4 Lifetime radiological risks due to one year of exposure, Shiprock, New Mexico, site

Radionuclide*		
Exposure pathway	U-238	U-234
Seep Water ingestion	4.2×10^{-7}	4.5×10^{-7}
Meat ingestion	1.5×10^{-9}	1.6×10^{-9}
Total radiological risk = 8.7×10^{-7}		

^aExcess lifetime risk of contracting cancer (unitless).

Table 5.5 Aquatic toxicity concentrations, Shiprock, New Mexico, site

Concentrations (ppm)			
Contaminant	Seep 425	Seep 426	AWQC
Ammonia	.23	1.8	2.2
Copper	<.01	.01	.045 ^b
Iron	1.66 ^a	.03	1.0
Nickel	<.04	.04	.60 ^b
Lead	.016	.009	.023 ^b
Selenium	.20 ^a	<.005	.035
Zinc	.006	<.005	.40 ^b

^a Concentration exceeds AWQC.

^b AWQC based upon alkalinity of 485 ppm as measured at seep 426.

Table 5.6 Toxicity of seep contaminants to livestock, Shiprock, New Mexico, site

Contaminants	Concentration in seeps (ppm) ^a	Acute toxicity (ppm)	Chronic toxicity (ppm)	Recommended safe concentration (ppm)
Nitrate	290, 328	1300 ^b	--	<443 ^b
Selenium	0.2, <.05	NA	0.5-2.0 ^c	< .05 ^c
Uranium	0.51, 0.71	NA	NA	NA
Fluoride	1.0, 0.6	NA	10-15 ^d	< 2 ^d

^aValues are reported for seep 425 and seep 426, respectively.

^bChurch, 1988.

^cEisler, 1985.

^dEPA, 1973.

NA=Not available.

REFERENCES

- Church, D. C.(ed.), 1988. The Ruminant Animal, Digestive Physiology and Nutrition, Prentice Hall, Englewood Cliffs, New Jersey, pp. 480-83.
- DOE (U.S. Department of Energy), 1990. Floodplain Groundwater Characterization, Shiprock, New Mexico, DOE UMTRA Project Office, Albuquerque Operations Office, Albuquerque, New Mexico.
- DOE (U.S. Department of Energy), 1989. Technical Approach Document, UMTRA-DOE/AL-050425.0002, DOE UMTRA Project Office, Albuquerque Operations Office, Albuquerque, New Mexico.
- DOE (U.S. Department of Energy), 1985. Remedial Action Plan and Site Conceptual Design for Stabilization of the Inactive Uranium Mill Tailings Site at Shiprock, New Mexico, UMTRA-DOE/AL-050504.0039, DOE UMTRA Project Office, Albuquerque Operations Office, Albuquerque, New Mexico.
- DOE (U.S. Department of Energy), 1984. Processing Site Characterization Report for the Uranium Mill Tailings Site at Shiprock, New Mexico, UMTRA-DOE/AL-0042, DOE UMTRA Project Office, Albuquerque Operations Office, Albuquerque, New Mexico.
- Eisler, R., 1985. Selenium Hazards to Fish, Wildlife, and Invertebrates: A Synoptic Review, prepared by the Patuxent Wildlife Research Center, U.S. Fish and Wildlife Service, Laurel, Maryland, for the U.S. Department of the Interior, Fish and Wildlife Service, Biological Report 85(1.5), pp. 40-44.
- EPA (U.S. Environmental Protection Agency), 1990. Health Effects Assessment Summary Tables, Fourth Quarter FY-1990, OERR 9200 6-303(90-4), Washington, D.C.
- EPA (U.S. Environmental Protection Agency), 1989a. Exposure Factors Handbook, EPA/600/8-89/043, Washington D.C.
- EPA (U.S. Environmental Protection Agency), 1989b. Risk Assessment Guidance for Superfund, Volume I, Human Health Evaluation Manual, Part A, Interim Final, EPA/540/1-89/002, Washington, D.C.
- EPA (Environmental Protection Agency), 1989c. Integrated Risk Information System (IRIS), as described in 53 Federal Register 41280 (June 2, 1988).
- EPA (U.S. Environmental Protection Agency), 1986. Quality Criteria for Water, 1986, EPA 440/5-86-001, Washington, D.C.
- EPA (U.S. Environmental Protection Agency), 1973. Quality Criteria for Water 1972, A Report of the Committee on Water Quality Criteria, prepared by the National Academy of Sciences-National Academy of Engineering, Environmental Studies Board, Washington, D.C., PB-236 199.

- Merritt, R. C., 1971. The Extractive Metallurgy of Uranium, Colorado School of Mines Press, Golden, Colorado, pp. 422-428.
- NRC (U.S. Nuclear Regulatory Commission), 1977. Regulatory Guide 1.109, Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 CFR part 50, Appendix I, Revision 1, Washington, D.C.
- Ohlendorf, H. M., 1989. "Bioaccumulation and Effects of Selenium in Wildlife," in Selenium in Agriculture and the Environment, SSSA Special Publication No. 23, Soil Science Society of America and American Society of Agronomy, Madison, Wisconsin, pp. 133-77.
- ORNL (Oak Ridge National Laboratory), 1984. A Review and Analysis of Parameters for Assessing Transport of Environmentally Released Radionuclides Through Agriculture, ORNL-5786, Oak Ridge, Tennessee.
- USDA (U.S. Department of Agriculture), 1952. Better Feeding of Livestock, Farmers' Bulletin No. 2050, Washington, D.C., pp. 33-36.

APPENDIX A

GROUNDWATER QUALITY DATA BY PARAMETER FOR TERRACE ALLUVIUM

GROUNDWATER QUALITY DATA BY PARAMETER, (TERRACE ALLUVIUM)
 APPENDIX A
 SITE: SHP02 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	0600	10/11/88	0001	TA	O	MG/L CaCO3		1542.		-	-
	0600	04/19/89	0001	TA	O		1489.	-	-		
	0600	06/04/90	0001	TA	O		1427.	-	-		
	0600	10/12/90	0001	TA	O		1605.	-	-		
	0601	10/11/88	0002	TA	O		382.	-	-		
	0601	04/19/89	0001	TA	O		294.	-	-		
	0601	06/04/90	0001	TA	O		452.	-	-		
	0601	10/12/90	0001	TA	O		408.	-	-		
	0602	10/11/88	0001	TA	O		2293.	-	-		
	0602	04/19/89	0001	TA	O		2254.	-	-		
	0602	06/04/90	0001	TA	O		2140.	-	-		
	0602	10/11/90	0001	TA	O		2231.	-	-		
	0603	06/04/90	0001	AL	N		310.	-	-		
	ALUMINUM	0600	04/19/89	0001	TA		O	MG/L	<	0.1	
0600		06/04/90	0001	TA	O	<	.1			0.1	-
0600		10/12/90	0001	TA	O	<	0.05			0.05	-
0601		04/19/89	0001	TA	O	<	0.3			0.1	-
0601		06/04/90	0001	TA	O	<	.1			0.1	-
0601		10/12/90	0001	TA	O	<	0.12			0.05	-
0602		04/19/89	0001	TA	O	<	0.1			0.1	-
0602		06/04/90	0001	TA	O	<	.1			0.1	-
0602		10/11/90	0001	TA	O	<	0.1		Ic	0.1	-
0603		06/04/90	0001	AL	N	<	.1			0.1	-
AMMONIUM		0600	10/11/88	0001	TA	O	MG/L			280.	
	0600	04/19/89	0001	TA	O	120.			0.1	-	
	0600	06/04/90	0001	TA	O	178.			0.1	-	
	0600	10/12/90	0001	TA	O	193.			0.1	-	
	0601	10/11/88	0002	TA	O	2920.			0.1	-	
	0601	04/19/89	0001	TA	O	2400.			0.1	-	
	0601	06/04/90	0001	TA	O	1840.			0.1	-	
	0601	10/12/90	0001	TA	O	1570.			0.1	-	
	0602	10/11/88	0001	TA	O	600.			0.1	-	
	0602	04/19/89	0001	TA	O	670.			0.1	-	
	0602	06/04/90	0001	TA	O	.613			0.1	-	
	0602	10/11/90	0001	TA	O	386.			0.1	-	
	0603	06/04/90	0001	AL	N	3780.			0.1	-	

FORMATION OF COMPLETION CODE:
 TA - URANIUM MILL TAILINGS
 AL - ALLUVIUM

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

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (TERRACE ALLUVIUM)
 APPENDIX A
 SITE: SHP02 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER		DETECTION LIMIT	PARAMETER UNCERTAINTY
							PVI	VALUE FLAGS		
ANTIMONY	0600	10/11/88	0001	TA	0	MG/L		0.098	0.003	-
	0600	04/19/89	0001	TA	0		0.106	0.003	-	
	0600	06/04/90	0001	TA	0		.060	0.003	-	
	0600	10/12/90	0001	TA	0		< 0.02	c	0.02	-
	0601	10/11/88	0002	TA	0		0.037		0.003	-
	0601	04/19/89	0001	TA	0		0.010		0.003	-
	0601	06/04/90	0001	TA	0		.007		0.003	-
	0601	10/12/90	0001	TA	0		< 0.02	Ic	0.02	-
	0602	10/11/88	0001	TA	0		0.043		0.003	-
	0602	04/19/89	0001	TA	0		0.035		0.003	-
	0602	06/04/90	0001	TA	0		.028		0.003	-
	0602	10/11/90	0001	TA	0		< 0.02	Ic	0.02	-
	0603	06/04/90	0001	AL	N		.025		0.003	-
	ARSENIC	0600	10/11/88	0001	TA		0	MG/L		0.09
0600		04/19/89	0001	TA	0	0.03			0.01	-
0600		06/04/90	0001	TA	0	< .01			0.01	-
0600		10/12/90	0001	TA	0	< 0.1	c		0.1	-
0601		10/11/88	0002	TA	0	0.06			0.01	-
0601		04/19/89	0001	TA	0	0.02			0.01	-
0601		06/04/90	0001	TA	0	.02			0.01	-
0601		10/12/90	0001	TA	0	< 0.05	Ic		0.05	-
0602		10/11/88	0001	TA	0	0.31			0.01	-
0602		04/19/89	0001	TA	0	0.05			0.01	-
0602		06/04/90	0001	TA	0	.02			0.01	-
0602		10/11/90	0001	TA	0	< 0.1	Ic		0.1	-
0603		06/04/90	0001	AL	N	.02			0.01	-
BARIUM		0600	10/11/88	0001	TA	0	MG/L		<	0.1
	0600	04/19/89	0001	TA	0	<		0.1	0.1	-
	0600	06/04/90	0001	TA	0	<		.1	0.1	-
	0600	10/12/90	0001	TA	0			0.01	0.01	-
	0601	10/11/88	0002	TA	0	<		0.1	0.1	-
	0601	04/19/89	0001	TA	0	<		0.1	0.1	-
	0601	06/04/90	0001	TA	0	<		.1	0.1	-
	0601	10/12/90	0001	TA	0			0.01	0.01	-
	0602	10/11/88	0001	TA	0	<		0.1	0.1	-
	0602	04/19/89	0001	TA	0	<		0.1	0.1	-

FORMATION OF COMPLETION CODE:
 TA - URANIUM MILL TAILINGS
 AL - ALLUVIUM

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

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (TERRACE ALLUVIUM)
 APPENDIX A
 SITE: SHP02 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BARIUM	0602	06/04/90	0001	TA	O	MG/L	<	.1		0.1	-
	0602	10/11/90	0001	TA	O		<	0.01		0.01	-
	0603	06/04/90	0001	AL	N		<	.1		0.1	-
BERYLLIUM	0600	04/19/89	0001	TA	O	MG/L	<	0.01		0.01	-
	0600	06/04/90	0001	TA	O		<	.01		0.01	-
	0600	10/12/90	0001	TA	O		<	0.005		0.005	-
	0601	04/19/89	0001	TA	O		<	0.01		0.01	-
	0601	06/04/90	0001	TA	O		<	.01		0.01	-
	0601	10/12/90	0001	TA	O		<	0.005		0.005	-
	0602	04/19/89	0001	TA	O		<	0.01		0.01	-
	0602	06/04/90	0001	TA	O		<	.01		0.01	-
	0602	10/11/90	0001	TA	O		<	0.01	Ic	0.01	-
0603	06/04/90	0001	AL	N		<	.01		0.01	-	
BORON	0600	04/19/89	0001	TA	O	MG/L		1.1		0.1	-
	0600	06/04/90	0001	TA	O			1.1		0.1	-
	0600	10/12/90	0001	TA	O			1.08		0.05	-
	0601	04/19/89	0001	TA	O			0.2		0.1	-
	0601	06/04/90	0001	TA	O			.3		0.1	-
	0601	10/12/90	0001	TA	O			0.27		0.05	-
	0602	04/19/89	0001	TA	O			0.7		0.1	-
	0602	06/04/90	0001	TA	O			.7		0.1	-
	0602	10/11/90	0001	TA	O			0.71		0.05	-
	0603	06/04/90	0001	AL	N		<	.1		0.1	-
BROMIDE	0600	04/19/89	0001	TA	O	MG/L	<	0.1		0.1	-
	0601	04/19/89	0001	TA	O			0.1		0.1	-
	0602	04/19/89	0001	TA	O		<	0.1		0.1	-
CADMIUM	0600	10/11/88	0001	TA	O	MG/L		0.002		0.001	-
	0600	04/19/89	0001	TA	O			0.011		0.001	-
	0600	06/04/90	0001	TA	O			.001		0.001	-
	0600	10/12/90	0001	TA	O		<	0.005	c	0.005	-
	0601	10/11/88	0002	TA	O			0.180		0.001	-
	0601	04/19/89	0001	TA	O			0.111		0.001	-
	0601	06/04/90	0001	TA	O			.060		0.001	-
	0601	10/12/90	0001	TA	O			0.048		0.001	-

FORMATION OF COMPLETION CODE:
 TA - URANIUM MILL TAILINGS
 AL - ALLUVIUM

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

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (TERRACE ALLUVIUM)
 APPENDIX A
 SITE: SHP02 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CADMIUM	0602	10/11/88	0001	TA	O	MG/L	0.008		0.001	-
	0602	04/19/89	0001	TA	O		0.013		0.001	-
	0602	06/04/90	0001	TA	O		< .001		0.001	-
	0602	10/11/90	0001	TA	O		< 0.005	Ic	0.005	-
	0603	06/04/90	0001	AL	N		.057		0.001	-
CALCIUM	0600	10/11/88	0001	TA	O	MG/L	378.		0.01	-
	0600	04/19/89	0001	TA	O		357.		0.01	-
	0600	06/04/90	0001	TA	O		366.		0.01	-
	0600	10/12/90	0001	TA	O		355.		0.01	-
	0601	10/11/88	0002	TA	O		380.		0.01	-
	0601	04/19/89	0001	TA	O		468.		0.01	-
	0601	06/04/90	0001	TA	O		404.		0.01	-
	0601	10/12/90	0001	TA	O		395.		0.01	-
	0602	10/11/88	0001	TA	O		354.		0.01	-
	0602	04/19/89	0001	TA	O		416.		0.01	-
	0602	06/04/90	0001	TA	O		354.		0.01	-
	0602	10/11/90	0001	TA	O		357.		0.01	-
	0603	06/04/90	0001	AL	N		367.		0.01	-
	CHLORIDE	0600	10/11/88	0001	TA	O	MG/L	380.		1.0
0600		04/19/89	0001	TA	O		680.		1.0	-
0600		06/04/90	0001	TA	O		79.		1.0	-
0600		10/12/90	0001	TA	O		411.		1.0	-
0601		10/11/88	0002	TA	O		570.		1.0	-
0601		04/19/89	0001	TA	O		440.		1.0	-
0601		06/04/90	0001	TA	O		384.		1.0	-
0601		10/12/90	0001	TA	O		286.		1.0	-
0602		10/11/88	0001	TA	O		790.		1.0	-
0602		04/19/89	0001	TA	O		717.		1.0	-
0602		06/04/90	0001	TA	O		820.		1.0	-
0602		10/11/90	0001	TA	O		780.		1.0	-
0603		06/04/90	0001	AL	N		731.		1.0	-
CHROMIUM		0600	10/11/88	0001	TA	O	MG/L	0.16		0.01
	0600	04/19/89	0001	TA	O		< 0.01		0.01	-
	0600	06/04/90	0001	TA	O		< .01		0.01	-
	0600	10/12/90	0001	TA	O		< 0.01		0.01	-

FORMATION OF COMPLETION CODE:
 TA - URANIUM MILL TAILINGS
 AL - ALLUVIUM

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

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (TERRACE ALLUVIUM)
 APPENDIX A
 SITE: SHP02 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CHROMIUM	0601	10/11/88	0002	TA	O	MG/L	0.24		0.01	-
	0601	04/19/89	0001	TA	O		< 0.01		0.01	-
	0601	06/04/90	0001	TA	O		< .01		0.01	-
	0601	10/12/90	0001	TA	O		< 0.01		0.01	-
	0602	10/11/88	0001	TA	O		0.24		0.01	-
	0602	04/19/89	0001	TA	O		< 0.01		0.01	-
	0602	06/04/90	0001	TA	O		< .01		0.01	-
	0602	10/11/90	0001	TA	O		< 0.02	Ic	0.02	-
	0603	06/04/90	0001	AL	N		< .01		0.01	-
COBALT	0600	10/11/88	0001	TA	O	MG/L	< 0.05		0.05	-
	0600	04/19/89	0001	TA	O		< 0.05		0.05	-
	0600	06/04/90	0001	TA	O		< .05		0.05	-
	0600	10/12/90	0001	TA	O		< 0.03		0.03	-
	0601	10/11/88	0002	TA	O		0.29		0.05	-
	0601	04/19/89	0001	TA	O		0.13		0.05	-
	0601	06/04/90	0001	TA	O		.12		0.05	-
	0601	10/12/90	0001	TA	O		0.07		0.03	-
	0602	10/11/88	0001	TA	O		0.12		0.05	-
	0602	04/19/89	0001	TA	O		< 0.05		0.05	-
	0602	06/04/90	0001	TA	O		< .05		0.05	-
	0602	10/11/90	0001	TA	O		< 0.06	Ic	0.06	-
	0603	06/04/90	0001	AL	N		< .05		0.05	-
COPPER	0600	10/11/88	0001	TA	O	MG/L	0.03		0.02	-
	0600	04/19/89	0001	TA	O		0.02		0.02	-
	0600	06/04/90	0001	TA	O		< .02		0.02	-
	0600	10/12/90	0001	TA	O		0.02		0.01	-
	0601	10/11/88	0002	TA	O		0.14		0.02	-
	0601	04/19/89	0001	TA	O		0.10		0.02	-
	0601	06/04/90	0001	TA	O		.05		0.02	-
	0601	10/12/90	0001	TA	O		0.04		0.01	-
	0602	10/11/88	0001	TA	O		0.03		0.02	-
	0602	04/19/89	0001	TA	O		0.02		0.02	-
	0602	06/04/90	0001	TA	O		< .02		0.02	-
	0602	10/11/90	0001	TA	O		< 0.02	Ic	0.02	-
	0603	06/04/90	0001	AL	N		< .02		0.02	-
CYANIDE	0600	04/19/89	0001	TA	O	MG/L	< 0.01		0.01	-

FORMATION OF COMPLETION CODE:
 TA - URANIUM MILL TAILINGS
 AL - ALLUVIUM

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

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (TERRACE ALLUVIUM)
 APPENDIX A
 SITE: SHP02 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CYANIDE	0601	04/19/89	0001	TA	0	MG/L	<	0.01		0.01	-
	0602	04/19/89	0001	TA	0		<	0.01		0.01	-
FLUORIDE	0600	10/11/88	0001	TA	0	MG/L		0.4		0.1	-
	0600	04/19/89	0001	TA	0			0.5		0.1	-
	0600	06/04/90	0001	TA	0			.5		0.1	-
	0600	10/12/90	0001	TA	0			0.4		0.1	-
	0601	10/11/88	0002	TA	0			1.9		0.1	-
	0601	04/19/89	0001	TA	0			1.4		0.1	-
	0601	06/04/90	0001	TA	0			1.3		0.1	-
	0601	10/12/90	0001	TA	0			1.6		0.1	-
	0602	10/11/88	0001	TA	0			0.3		0.1	-
	0602	04/19/89	0001	TA	0			0.4		0.1	-
	0602	06/04/90	0001	TA	0			.2		0.1	-
	0602	10/11/90	0001	TA	0			0.5		0.1	-
	0603	06/04/90	0001	AL	N			.1		0.1	-
	GROSS ALPHA	0600	10/11/88	0001	TA	0	PCI/L		1100.		0.2
0600		04/19/89	0001	TA	0			1000.		0.2	200.
0601		10/11/88	0002	TA	0			80.		0.2	130.
0601		04/19/89	0001	TA	0			400.		0.2	130.
0602		10/11/88	0001	TA	0			1200.		0.2	200.
0602		04/19/89	0001	TA	0			1200.		0.2	200.
GROSS BETA	0600	10/11/88	0001	TA	0	PCI/L		380.		1.0	70.
	0600	04/19/89	0001	TA	0			600.		1.0	70.
	0601	10/11/88	0002	TA	0			230.		1.0	60.
	0601	04/19/89	0001	TA	0			260.		1.0	70.
	0602	10/11/88	0001	TA	0			550.		1.0	80.
	0602	04/19/89	0001	TA	0			500.		1.0	100.
IRON	0600	10/11/88	0001	TA	0	MG/L		0.11		0.03	-
	0600	04/19/89	0001	TA	0			0.08		0.03	-
	0600	06/04/90	0001	TA	0			.13		0.03	-
	0600	10/12/90	0001	TA	0		<	0.03		0.03	-
	0601	10/11/88	0002	TA	0			0.95		0.03	-
	0601	04/19/89	0001	TA	0			0.28		0.03	-
	0601	06/04/90	0001	TA	0			.16		0.03	-
	0601	10/12/90	0001	TA	0		<	0.03		0.03	-
	0602	10/11/88	0001	TA	0			0.21		0.03	-

FORMATION OF COMPLETION CODE:
 TA - URANIUM MILL TAILINGS
 AL - ALLUVIUM

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

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

GROUNDWATER QUALITY DATA BY PARAMETER, (TERRACE ALLUVIUM)
 APPENDIX A
 SITE: SHPO2 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
IRON	0602	04/19/89	0001	TA	O	MG/L		0.19		0.03	-
	0602	06/04/90	0001	TA	O			.20		0.03	-
	0602	10/11/90	0001	TA	O		<	0.06	Ic	0.06	-
	0603	06/04/90	0001	AL	N			.20		0.03	-
LEAD	0600	10/11/88	0001	TA	O	MG/L		0.02		0.01	-
	0600	04/19/89	0001	TA	O			0.01		0.01	-
	0600	06/04/90	0001	TA	O		<	.01		0.01	-
	0600	10/12/90	0001	TA	O		<	0.05	c	0.05	-
	0601	10/11/88	0002	TA	O		<	0.01		0.01	-
	0601	04/19/89	0001	TA	O		<	0.01		0.01	-
	0601	06/04/90	0001	TA	O		<	.01		0.01	-
	0601	10/12/90	0001	TA	O		<	0.05	Ic	0.05	-
	0602	10/11/88	0001	TA	O			0.02		0.01	-
	0602	04/19/89	0001	TA	O			0.02		0.01	-
	0602	06/04/90	0001	TA	O		<	.01		0.01	-
	0602	10/11/90	0001	TA	O		<	0.05	Ic	0.05	-
	0603	06/04/90	0001	AL	N		<	.01		0.01	-
	LEAD-210	0600	04/19/89	0001	TA	O	PCI/L		1.4		1.5
0601		04/19/89	0001	TA	O		<	0.8	b	1.5	0.8
0602		04/19/89	0001	TA	O			1.5		1.5	1.0
MAGNESIUM	0600	10/11/88	0001	TA	O	MG/L		857.		0.001	-
	0600	04/19/89	0001	TA	O			543.		0.001	-
	0600	06/04/90	0001	TA	O			750.		0.001	-
	0600	10/12/90	0001	TA	O			675.		0.001	-
	0601	10/11/88	0002	TA	O			1960.		0.001	-
	0601	04/19/89	0001	TA	O			1510.		0.001	-
	0601	06/04/90	0001	TA	O			1240.		0.001	-
	0601	10/12/90	0001	TA	O			466.		0.001	-
	0602	10/11/88	0001	TA	O			2940.		0.001	-
	0602	04/19/89	0001	TA	O			2800.		0.001	-
	0602	06/04/90	0001	TA	O			2680.		0.001	-
	0602	10/11/90	0001	TA	O			1820.		0.001	-
	0603	06/04/90	0001	AL	N			2690.		0.001	-
MANGANESE	0600	04/19/89	0001	TA	O	MG/L		0.62		0.01	-

FORMATION OF COMPLETION CODE:
 TA - URANIUM MILL TAILINGS
 AL - ALLUVIUM

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

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 b - CHANGED PARAMETER VALUE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (TERRACE ALLUVIUM)
 APPENDIX A
 SITE: SHP02 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MANGANESE	0600	06/04/90	0001	TA	O	MG/L	.95		0.01	-
	0600	10/12/90	0001	TA	O		0.92		0.01	-
	0601	04/19/89	0001	TA	O		39.8		0.01	-
	0601	06/04/90	0001	TA	O		33.8		0.01	-
	0601	10/12/90	0001	TA	O		28.0		0.01	-
	0602	04/19/89	0001	TA	O		1.70		0.01	-
	0602	06/04/90	0001	TA	O		1.63		0.01	-
	0602	10/11/90	0001	TA	O		1.28		0.01	-
	0603	06/04/90	0001	AL	N		68.8		0.01	-
MERCURY	0600	10/11/88	0001	TA	O	MG/L	0.0005		0.0002	-
	0600	04/19/89	0001	TA	O		< 0.0002		0.0002	-
	0600	06/04/90	0001	TA	O		< .0002		0.0002	-
	0600	10/12/90	0001	TA	O		< 0.0002		0.0002	-
	0601	10/11/88	0002	TA	O		0.0002		0.0002	-
	0601	04/19/89	0001	TA	O		< 0.0002		0.0002	-
	0601	06/04/90	0001	TA	O		< .0002		0.0002	-
	0601	10/12/90	0001	TA	O		0.0014		0.0002	-
	0602	10/11/88	0001	TA	O		0.0002		0.0002	-
	0602	04/19/89	0001	TA	O		< 0.0002		0.0002	-
	0602	06/04/90	0001	TA	O		< .0002		0.0002	-
	0602	10/11/90	0001	TA	O		< 0.0002		0.0002	-
	0603	06/04/90	0001	AL	N		< .0002		0.0002	-
MOLYBDENUM	0600	10/11/88	0001	TA	O	MG/L	0.18		0.01	-
	0600	04/19/89	0001	TA	O		0.03		0.01	-
	0600	06/04/90	0001	TA	O		< .01		0.01	-
	0600	10/12/90	0001	TA	O		< 0.01		0.01	-
	0601	10/11/88	0002	TA	O		0.34		0.01	-
	0601	04/19/89	0001	TA	O		< 0.01		0.01	-
	0601	06/04/90	0001	TA	O		< .01		0.01	-
	0601	10/12/90	0001	TA	O		< 0.01		0.01	-
	0602	10/11/88	0001	TA	O		0.45		0.01	-
	0602	04/19/89	0001	TA	O		0.07		0.01	-
	0602	06/04/90	0001	TA	O		.11		0.01	-
	0602	10/11/90	0001	TA	O		< 0.02	Ic	0.02	-
	0603	06/04/90	0001	AL	N		.10		0.01	-
NET GROSS ALPHA *	0600	10/11/88	0001	TA	O	PCI/L	22.98		-	-

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

FORMATION OF COMPLETION CODE:
 TA - URANIUM MILL TAILINGS
 AL - ALLUVIUM

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

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (TERRACE ALLUVIUM)
 APPENDIX A
 SITE: SHP02 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/16/91

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 *	0600	04/19/89	0001	TA	O	PCI/L	-15.28		-	-
	0601	10/11/88	0002	TA	O		62.03		-	-
	0601	04/19/89	0001	TA	O		381.62		-	-
	0602	10/11/88	0001	TA	O		411.10		-	-
	0602	04/19/89	0001	TA	O		260.18		-	-
NICKEL	0600	04/19/89	0001	TA	O	MG/L	< 0.04		0.04	-
	0600	06/04/90	0001	TA	O		.04		0.04	-
	0600	10/12/90	0001	TA	O		< 0.04		0.04	-
	0601	04/19/89	0001	TA	O		0.40		0.04	-
	0601	06/04/90	0001	TA	O		.34		0.04	-
	0601	10/12/90	0001	TA	O		0.17		0.04	-
	0602	04/19/89	0001	TA	O		0.07		0.04	-
	0602	06/04/90	0001	TA	O		.10		0.04	-
	0602	10/11/90	0001	TA	O		< 0.08	Ic	0.08	-
	0603	06/04/90	0001	AL	N		.04		0.04	-
NITRATE	0600	10/11/88	0001	TA	O	MG/L	840.		1.0	-
	0600	04/19/89	0001	TA	O		470.		1.0	-
	0600	06/04/90	0001	TA	O		945.		1.0	-
	0600	10/12/90	0001	TA	O		385.		1.0	-
	0601	10/11/88	0002	TA	O		1990.		1.0	-
	0601	04/19/89	0001	TA	O		3300.		1.0	-
	0601	06/04/90	0001	TA	O		2320.		1.0	-
	0601	10/12/90	0001	TA	O		2090.		1.0	-
	0602	10/11/88	0001	TA	O		55.		1.0	-
	0602	04/19/89	0001	TA	O		140.		1.0	-
	0602	06/04/90	0001	TA	O		87.		1.0	-
	0602	10/11/90	0001	TA	O		65.		1.0	-
	0603	06/04/90	0001	AL	N		106.		1.0	-
	NITRITE AND NITRATE	0600	10/11/88	0001	TA		O	MG/L	190.	
0601		10/11/88	0002	TA	O	450.			1.0	-
0602		10/11/88	0001	TA	O	12.			1.0	-
PH	0600	10/11/88	0001	TA	O	SU	7.25		-	-

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

FORMATION OF COMPLETION CODE:
 TA - URANIUM MILL TAILINGS
 AL - ALLUVIUM

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

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (TERRACE ALLUVIUM)
 APPENDIX A
 SITE: SHP02 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PH	0600	04/19/89	0001	TA	0	SU	6.78		-	-
	0600	06/04/90	0001	TA	0		6.70		-	-
	0600	10/12/90	0001	TA	0		6.55		-	-
	0601	10/11/88	0002	TA	0		6.43		-	-
	0601	04/19/89	0001	TA	0		6.22		-	-
	0601	06/04/90	0001	TA	0		6.45		-	-
	0601	10/12/90	0001	TA	0		6.53		-	-
	0602	10/11/88	0001	TA	0		6.61		-	-
	0602	04/19/89	0001	TA	0		7.18		-	-
	0602	06/04/90	0001	TA	0		6.44		-	-
	0602	10/11/90	0001	TA	0		6.53		-	-
	0603	06/04/90	0001	AL	N		6.29		-	-
	PHOSPHATE	0600	10/11/88	0001	TA		0	MG/L	< 0.1	
0600		04/19/89	0001	TA	0	< 0.1			0.1	-
0600		06/04/90	0001	TA	0	< .1			0.1	-
0600		10/12/90	0001	TA	0	0.1			0.1	-
0601		10/11/88	0002	TA	0	< 0.1			0.1	-
0601		04/19/89	0001	TA	0	0.2			0.1	-
0601		06/04/90	0001	TA	0	< .1			0.1	-
0601		10/12/90	0001	TA	0	0.4			0.1	-
0602		10/11/88	0001	TA	0	< 0.1			0.1	-
0602		04/19/89	0001	TA	0	< 0.1			0.1	-
0602		06/04/90	0001	TA	0	.6			0.1	-
0602		10/11/90	0001	TA	0	0.1			0.1	-
0603		06/04/90	0001	AL	N	.6			0.1	-
POLONIUM-210		0600	04/19/89	0001	TA	0	PCI/L		1.7	
	0601	04/19/89	0001	TA	0	0.4		c	0.80000	0.4
	0602	04/19/89	0001	TA	0	3.1			1.0	1.0
POTASSIUM	0600	10/11/88	0001	TA	0	MG/L	103.		0.01	-
	0600	04/19/89	0001	TA	0		61.8		0.01	-
	0600	06/04/90	0001	TA	0		76.5		0.01	-
	0600	10/12/90	0001	TA	0		56.		0.01	-
	0601	10/11/88	0002	TA	0		195.		0.01	-
	0601	04/19/89	0001	TA	0		163.		0.01	-
	0601	06/04/90	0001	TA	0		127.		0.01	-
	0601	10/12/90	0001	TA	0		71.		0.01	-

FORMATION OF COMPLETION CODE:
 TA - URANIUM MILL TAILINGS
 AL - ALLUVIUM

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

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (TERRACE ALLUVIUM)
 APPENDIX A
 SITE: SHP02 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
POTASSIUM	0602	10/11/88	0001	TA	O	MG/L	266.		0.01	-
	0602	04/19/89	0001	TA	O		248.		0.01	-
	0602	06/04/90	0001	TA	O		215.		0.01	-
	0602	10/11/90	0001	TA	O		161.		0.01	-
	0603	06/04/90	0001	AL	N		353.		0.01	-
RADIUM-226	0600	10/11/88	0001	TA	O	PCI/L	0.2	c	0.40000	0.2
	0600	04/19/89	0001	TA	O		0.3	c	0.60000	0.3
	0600	06/04/90	0001	TA	O		0.9		1.0	0.4
	0600	10/12/90	0001	TA	O		1.2		1.0	0.5
	0601	10/11/88	0002	TA	O		0.5	c	0.70000	0.2
	0601	04/19/89	0001	TA	O		0.4	c	0.60000	0.2
	0601	06/04/90	0001	TA	O		1.1		1.0	0.4
	0601	10/12/90	0001	TA	O		0.5	c	0.80000	0.3
	0602	10/11/88	0001	TA	O		0.9		1.0	0.4
	0602	04/19/89	0001	TA	O		2.9		1.0	0.8
	0602	06/04/90	0001	TA	O		4.1		1.0	0.8
	0602	10/11/90	0001	TA	O		4.9		1.0	0.8
	0603	06/04/90	0001	AL	N		2.7		1.0	0.6
	RADIUM-226 + RADIUM-228	0600	10/11/88	0001	TA		O	PCI/L	2.90	
0600		04/19/89	0001	TA	O	3.50			-	-
0600		06/04/90	0001	TA	O	5.00			-	-
0600		10/12/90	0001	TA	O	3.90			-	-
0601		10/11/88	0002	TA	O	2.50			-	-
0601		04/19/89	0001	TA	O	3.40			-	-
0601		06/04/90	0001	TA	O	3.10			-	-
0601		10/12/90	0001	TA	O	1.00			-	-
0602		10/11/88	0001	TA	O	10.40			-	-
0602		04/19/89	0001	TA	O	12.30			-	-
0602		06/04/90	0001	TA	O	14.10			-	-
0602	10/11/90	0001	TA	O	10.70		-	-		
0603	06/04/90	0001	AL	N	6.00		-	-		
RADIUM-228	0600	10/11/88	0001	TA	O	PCI/L	2.7		1.0	1.0
	0600	04/19/89	0001	TA	O		3.2		1.0	1.0
	0600	06/04/90	0001	TA	O		4.1		1.0	0.9
	0600	10/12/90	0001	TA	O		2.7		1.0	3.4
	0601	10/11/88	0002	TA	O		2.0		1.0	1.0

FORMATION OF COMPLETION CODE:
 TA - URANIUM MILL TAILINGS
 AL - ALLUVIUM

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

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (TERRACE ALLUVIUM)
 APPENDIX A
 SITE: SHPO2 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/16/91

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	0601	04/19/89	0001	TA	O	PCI/L	3.0		1.0	0.9
	0601	06/04/90	0001	TA	O		2.0		1.0	0.8
	0601	10/12/90	0001	TA	O		< 2.2	b	1.0	2.2
	0602	10/11/88	0001	TA	O		9.5		1.0	2.0
	0602	04/19/89	0001	TA	O		9.4		1.0	1.2
	0602	06/04/90	0001	TA	O		10.		1.0	1.
	0602	10/11/90	0001	TA	O		5.8		1.0	2.5
	0602	10/11/90	0001	TA	O		5.8		1.0	2.5
	0603	06/04/90	0001	AL	N		3.3		1.0	1.9
SELENIUM	0600	10/11/88	0001	TA	O	MG/L	0.652		0.005	-
	0600	04/19/89	0001	TA	O		0.128		0.005	-
	0600	06/04/90	0001	TA	O		.091		0.005	-
	0600	10/12/90	0001	TA	O		0.070		0.005	-
	0601	10/11/88	0002	TA	O		0.684		0.005	-
	0601	04/19/89	0001	TA	O		0.070		0.005	-
	0601	06/04/90	0001	TA	O		.037		0.005	-
	0601	10/12/90	0001	TA	O		0.125		0.005	-
	0602	10/11/88	0001	TA	O		0.796		0.005	-
	0602	04/19/89	0001	TA	O		0.142		0.005	-
	0602	06/04/90	0001	TA	O		.163		0.005	-
	0602	10/11/90	0001	TA	O		< 0.05	Ic	0.05	-
	0602	10/11/90	0001	TA	O		0.05		0.05	-
	0603	06/04/90	0001	AL	N		.185		0.005	-
SILICA - SiO2	0600	04/19/89	0001	TA	O	MG/L	11.		2.0	-
	0600	06/04/90	0001	TA	O		13.		2.0	-
	0600	10/12/90	0001	TA	O		11.2		0.1	-
	0601	04/19/89	0001	TA	O		15.		2.0	-
	0601	06/04/90	0001	TA	O		10.		2.0	-
	0601	10/12/90	0001	TA	O		7.8		0.1	-
	0602	04/19/89	0001	TA	O		9.0		2.0	-
	0602	06/04/90	0001	TA	O		10.		2.0	-
	0602	10/11/90	0001	TA	O		7.8		0.1	-
	0603	06/04/90	0001	AL	N		3.		2.0	-
SILVER	0600	10/11/88	0001	TA	O	MG/L	0.01		0.01	-
	0600	04/19/89	0001	TA	O		< 0.01		0.01	-
	0600	06/04/90	0001	TA	O		< .01		0.01	-

FORMATION OF COMPLETION CODE:
 TA - URANIUM MILL TAILINGS
 AL - ALLUVIUM

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

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS:
 I - INTERFERENCE-DILUTION OF SAMPLE
 b - CHANGED PARAMETER VALUE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (TERRACE ALLUVIUM)
 APPENDIX A
 SITE: SHP02 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SILVER	0600	10/12/90	0001	TA	0	MG/L	<	0.01		0.01	-
	0601	10/11/88	0002	TA	0			0.03		0.01	-
	0601	04/19/89	0001	TA	0		<	0.01		0.01	-
	0601	06/04/90	0001	TA	0		<	.01		0.01	-
	0601	10/12/90	0001	TA	0		<	0.01		0.01	-
	0602	10/11/88	0001	TA	0			0.02		0.01	-
	0602	04/19/89	0001	TA	0		<	0.01		0.01	-
	0602	06/04/90	0001	TA	0		<	.01		0.01	-
	0602	10/11/90	0001	TA	0		<	0.02	Ic	0.02	-
	0603	06/04/90	0001	AL	N		<	.01		0.01	-
SODIUM	0600	10/11/88	0001	TA	0	MG/L		3270.		0.002	-
	0600	04/19/89	0001	TA	0			4066.		0.002	-
	0600	06/04/90	0001	TA	0			3730.		0.002	-
	0600	10/12/90	0001	TA	0			3380.		0.002	-
	0601	10/11/88	0002	TA	0			1530.		0.002	-
	0601	04/19/89	0001	TA	0			1100.		0.002	-
	0601	06/04/90	0001	TA	0			1120.		0.002	-
	0601	10/12/90	0001	TA	0			552.		0.002	-
	0602	10/11/88	0001	TA	0			3160.		0.002	-
	0602	04/19/89	0001	TA	0			2750.		0.002	-
	0602	06/04/90	0001	TA	0			3230.		0.002	-
	0602	10/11/90	0001	TA	0			2120.		0.002	-
	0603	06/04/90	0001	AL	N			2070.		0.002	-
SPECIFIC CONDUCTANCE	0600	10/11/88	0001	TA	0	UMHO/CM		13000.		-	-
	0600	04/19/89	0001	TA	0			11500.		-	-
	0600	06/04/90	0001	TA	0			12500.		-	-
	0600	10/12/90	0001	TA	0			13100.		-	-
	0601	10/11/88	0002	TA	0			20000.		-	-
	0601	04/19/89	0001	TA	0			9250.		-	-
	0601	06/04/90	0001	TA	0			15000.		-	-
	0601	10/12/90	0001	TA	0			13400.		-	-
	0602	10/11/88	0001	TA	0			16750.		-	-
	0602	04/19/89	0001	TA	0			13000.		-	-
	0602	06/04/90	0001	TA	0			17500.		-	-
	0602	10/11/90	0001	TA	0			17000.		-	-
	0603	06/04/90	0001	AL	N			25000.		-	-

FORMATION OF COMPLETION CODE:
 TA - URANIUM MILL TAILINGS
 AL - ALLUVIUM

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

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (TERRACE ALLUVIUM)
 APPENDIX A
 SITE: SHP02 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
STRONTIUM	0600	10/11/88	0001	TA	0	MG/L	9.4		0.1	-
	0600	04/19/89	0001	TA	0		6.2		0.1	-
	0600	06/04/90	0001	TA	0		8.52		0.1	-
	0600	10/12/90	0001	TA	0		8.95		0.01	-
	0601	10/11/88	0002	TA	0		3.5		0.1	-
	0601	04/19/89	0001	TA	0		2.7		0.1	-
	0601	06/04/90	0001	TA	0		2.34		0.1	-
	0601	10/12/90	0001	TA	0		2.02		0.01	-
	0602	10/11/88	0001	TA	0		15.6		0.1	-
	0602	04/19/89	0001	TA	0		11.0		0.1	-
	0602	06/04/90	0001	TA	0		11.2		0.1	-
	0602	10/11/90	0001	TA	0		7.84		0.01	-
	0603	06/04/90	0001	AL	N		4.09		0.1	-
	SULFATE	0600	10/11/88	0001	TA		0	MG/L	9250.	
0600		04/19/89	0001	TA	0	11100.			0.1	-
0600		06/04/90	0001	TA	0	9780.			0.1	-
0600		10/12/90	0001	TA	0	9840.			0.1	-
0601		10/11/88	0002	TA	0	17500.			0.1	-
0601		04/19/89	0001	TA	0	13900.			0.1	-
0601		06/04/90	0001	TA	0	11800.			0.1	-
0601		10/12/90	0001	TA	0	8450.			0.1	-
0602		10/11/88	0001	TA	0	18100.			0.1	-
0602		04/19/89	0001	TA	0	17600.			0.1	-
0602		06/04/90	0001	TA	0	16800.			0.1	-
0602		10/11/90	0001	TA	0	16700.			0.1	-
0603		06/04/90	0001	AL	N	15900.			0.1	-
SULFIDE		0600	04/19/89	0001	TA	0	MG/L		< 0.1	
	0601	04/19/89	0001	TA	0	< 0.1			0.1	-
	0602	04/19/89	0001	TA	0	< 0.1			0.1	-
TEMPERATURE	0600	10/11/88	0001	TA	0	C - DEGREE	17.5		-	-
	0600	04/19/89	0001	TA	0		15.		-	-
	0600	06/04/90	0001	TA	0		16.5		-	-
	0600	10/12/90	0001	TA	0		17.0		-	-
	0601	10/11/88	0002	TA	0		15.		-	-
	0601	04/19/89	0001	TA	0		15.		-	-
	0601	06/04/90	0001	TA	0		18.		-	-
	0601	10/12/90	0001	TA	0		15.0		-	-

FORMATION OF COMPLETION CODE:
 TA - URANIUM MILL TAILINGS
 AL - ALLUVIUM

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

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

GROUNDWATER QUALITY DATA BY PARAMETER, (TERRACE ALLUVIUM)
 APPENDIX A
 SITE: SHP02 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TEMPERATURE	0602	10/11/88	0001	TA	O	C - DEGREE	16.0		-	-
	0602	04/19/89	0001	TA	O		17.		-	-
	0602	06/04/90	0001	TA	O		16.5		-	-
	0602	10/11/90	0001	TA	O		16.2		-	-
	0603	06/04/90	0001	AL	N		16.0		-	-
THALLIUM	0600	04/19/89	0001	TA	O	MG/L	0.02		0.01	-
	0600	06/04/90	0001	TA	O		.01		0.01	-
	0600	10/12/90	0001	TA	O		< 0.05	c	0.05	-
	0601	04/19/89	0001	TA	O		0.05		0.01	-
	0601	06/04/90	0001	TA	O		.03		0.01	-
	0601	10/12/90	0001	TA	O		< 0.05	Ic	0.05	-
	0602	04/19/89	0001	TA	O		0.03		0.01	-
	0602	06/04/90	0001	TA	O		.02		0.01	-
	0602	10/11/90	0001	TA	O		< 0.05	Ic	0.05	-
0603	06/04/90	0001	AL	N	.04		0.01	-		
THORIUM-230	0600	10/11/88	0001	TA	O	PCI/L	0.3		1.0	1.2
	0600	04/19/89	0001	TA	O		< 0.7	b	1.0	0.7
	0601	10/11/88	0002	TA	O		< 0.4	d	0.1	0.4
	0601	04/19/89	0001	TA	O		0.1	c	0.50000	0.4
	0602	10/11/88	0001	TA	O		< 0.9	b	1.0	0.9
	0602	04/19/89	0001	TA	O		< 0.9	b	1.0	0.9
TIN	0600	04/19/89	0001	TA	O	MG/L	0.098		0.005	-
	0600	06/04/90	0001	TA	O		< .005		0.005	-
	0600	10/12/90	0001	TA	O		< 0.05	c	0.05	-
	0601	04/19/89	0001	TA	O		0.019		0.005	-
	0601	06/04/90	0001	TA	O		< .005		0.005	-
	0601	10/12/90	0001	TA	O		< 0.05	Ic	0.05	-
	0602	04/19/89	0001	TA	O		0.027		0.005	-
	0602	06/04/90	0001	TA	O		< .005		0.005	-
	0602	10/11/90	0001	TA	O		< 0.1	Ic	0.1	-
0603	06/04/90	0001	AL	N	< .005		0.005	-		
TOTAL DISSOLVED SOLIDS	0600	10/11/88	0001	TA	O	MG/L	15900.		10.0	-

FORMATION OF COMPLETION CODE:
 TA - URANIUM MILL TAILINGS
 AL - ALLUVIUM

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

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS:
 I - INTERFERENCE-DILUTION OF SAMPLE
 b - CHANGED PARAMETER VALUE
 c - CHANGED DETECTION LIMIT
 d - CHANGED DETECTION LIMIT AND PARAMETER VALUE

GROUNDWATER QUALITY DATA BY PARAMETER, (TERRACE ALLUVIUM)
 APPENDIX A
 SITE: SHPO2 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/16/91

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	0600	04/19/89	0001	TA	O	MG/L	17900.		10.0	-
	0600	06/04/90	0001	TA	O		15400.		10.0	-
	0600	10/12/90	0001	TA	O		15800.		10.0	-
	0601	10/11/88	0002	TA	O		25300.		10.0	-
	0601	04/19/89	0001	TA	O		19800.		10.0	-
	0601	06/04/90	0001	TA	O		14700.		10.0	-
	0601	10/12/90	0001	TA	O		11600.		10.0	-
	0602	10/11/88	0001	TA	O		27800.		10.0	-
	0602	04/19/89	0001	TA	O		28300.		10.0	-
	0602	06/04/90	0001	TA	O		25500.		10.0	-
	0602	10/11/90	0001	TA	O		25400.		10.0	-
	0603	06/04/90	0001	AL	N		32700.		10.0	-
	TOTAL ORGANIC CARBON	0600	04/19/89	0001	TA		O	MG/L	314.	
0601		04/19/89	0001	TA	O	93.5			1.0	-
0602		04/19/89	0001	TA	O	417.			1.0	-
URANIUM	0600	10/11/88	0001	TA	O	MG/L	1.57		0.003	-
	0600	04/19/89	0001	TA	O		1.48		0.003	-
	0600	06/04/90	0001	TA	O		1.06		0.003	-
	0600	10/12/90	0001	TA	O		1.44		0.001	-
	0601	10/11/88	0002	TA	O		0.0262		0.003	-
	0601	04/19/89	0001	TA	O		0.0268		0.003	-
	0601	06/04/90	0001	TA	O		0.030		0.003	-
	0601	10/12/90	0001	TA	O		0.026		0.001	-
	0602	10/11/88	0001	TA	O		1.15		0.003	-
	0602	04/19/89	0001	TA	O		1.37		0.003	-
	0602	06/04/90	0001	TA	O		0.971		0.003	-
	0602	10/11/90	0001	TA	O		0.975		0.001	-
	0603	06/04/90	0001	AL	N		0.017		0.003	-
	VANADIUM	0600	10/11/88	0001	TA		O	MG/L	0.08	
0600		04/19/89	0001	TA	O	0.06			0.01	-
0600		06/04/90	0001	TA	O	< .01			0.01	-
0600		10/12/90	0001	TA	O	< 0.01			0.01	-
0601		10/11/88	0002	TA	O	0.20			0.01	-
0601		04/19/89	0001	TA	O	0.15			0.01	-
0601		06/04/90	0001	TA	O	.04			0.01	-
0601		10/12/90	0001	TA	O	0.03			0.01	-
0602		10/11/88	0001	TA	O	0.17			0.01	-

FORMATION OF COMPLETION CODE:
 TA - URANIUM MILL TAILINGS
 AL - ALLUVIUM

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

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

GROUNDWATER QUALITY DATA BY PARAMETER, (TERRACE ALLUVIUM)
 APPENDIX A
 SITE: SHP02 SHIPROCK (TAILINGS AREA)
 10/11/88 TO 10/12/90
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
VANADIUM	0602	04/19/89	0001	TA	0	MG/L		0.17		0.01	-
	0602	06/04/90	0001	TA	0			.04		0.01	-
	0602	10/11/90	0001	TA	0		<	0.02	Ic	0.02	-
	0603	06/04/90	0001	AL	N			.18		0.01	-
ZINC	0600	10/11/88	0001	TA	0	MG/L		0.091		0.005	-
	0600	04/19/89	0001	TA	0			0.014		0.005	-
	0600	06/04/90	0001	TA	0		<	.005		0.005	-
	0600	10/12/90	0001	TA	0		<	0.005		0.005	-
	0601	10/11/88	0002	TA	0			0.599		0.005	-
	0601	04/19/89	0001	TA	0			0.435		0.005	-
	0601	06/04/90	0001	TA	0			.291		0.005	-
	0601	10/12/90	0001	TA	0			0.163		0.005	-
	0602	10/11/88	0001	TA	0			0.048		0.005	-
	0602	04/19/89	0001	TA	0			0.015		0.005	-
	0602	06/04/90	0001	TA	0		<	.005		0.005	-
	0602	10/11/90	0001	TA	0		<	0.05	Ic	0.05	-
	0603	06/04/90	0001	AL	N			.053		0.005	-

FORMATION OF COMPLETION CODE:
 TA - URANIUM MILL TAILINGS
 AL - ALLUVIUM

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

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

DATA FILE NAME: M:\DART\SHP02\GMQ10003.DAT

APPENDIX B

GROUNDWATER QUALITY DATA BY PARAMETER FOR FLOODPLAIN ALLUVIUM

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	0425	01/08/91	N001	NR	N	MG/L CaCO3		766.		-	-
	0426	01/08/91	N001	NR	N		485.	-	-		
	0601	09/19/86	0001	AL	U		219.0	-	-		
	0602	09/18/87	0001	AL	D		231.	-	-		
	0603	09/03/87	0001	AL	D		1791.	-	-		
	0603	04/06/89	0001	AL	D		749.	-	-		
	0603	06/04/90	0001	AL	D		310.	-	-		
	0604	09/03/87	0001	AL	D		339.	-	-		
	0607	09/19/86	0001	AL	D		620.0	-	-		
	0607	09/01/87	0001	AL	D		1660.	-	-		
	0608	09/18/86	0001	AL	D		845.0	-	-		
	0608	09/22/87	0001	AL	D		1001.	-	-		
	0608	04/03/89	0001	AL	D		1138.	-	-		
	0608	06/01/90	0001	AL	D		1178.	-	-		
	0608	10/07/90	0001	AL	D		1199.	-	-		
	0609	09/17/86	0001	AL	D		820.0	-	-		
	0609	09/21/87	0001	AL	D		1039.	-	-		
	0610	09/18/86	0001	AL	D		318.0	-	-		
	0610	09/21/87	0001	AL	D		471.	-	-		
	0610	04/03/89	0001	AL	D		624.	-	-		
	0610	06/01/90	0001	AL	D		675.	-	-		
	0610	10/07/90	0001	AL	D		674.	-	-		
	0611	09/19/87	0001	AL	D		591.	-	-		
	0612	09/17/86	0001	AL	D		291.0	-	-		
	0612	09/19/87	0001	AL	D		273.	-	-		
	0612	04/03/89	0001	AL	D		201.	-	-		
	0613	09/18/86	0001	AL	D		548.0	-	-		
	0613	09/18/87	0001	AL	D		440.	-	-		
	0614	09/18/87	0001	AL	D		426.	-	-		
	0614	10/11/88	0001	AL	D		406.	-	-		
	0614	04/03/89	0001	AL	D		406.	-	-		
	0614	06/01/90	0001	AL	D		493.	-	-		
0614	10/07/90	0001	AL	D	565.	-	-				
0615	09/18/87	0001	AL	D	489.	-	-				
0615	04/03/89	0001	AL	D	768.	-	-				
0615	06/01/90	0001	AL	D	695.	-	-				
0615	10/09/90	0001	AL	D	728.	-	-				
0616	09/15/86	0001	AL	D	247.0	-	-				
0616	09/18/87	0001	AL	D	318.	-	-				

FORMATION OF COMPLETION CODE:
 NR - NO RECOVERY OF DATA FOR CLASSIFYING
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 N - UNKNOWN
 U - UPGRADIENT
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	0616	04/04/89	0001	AL	D	MG/L CaCO3		295.		-	-
	0616	06/01/90	0001	AL	D		287.		-	-	
	0616	10/09/90	0001	AL	D		323.		-	-	
	0617	09/18/87	0001	AL	D		407.		-	-	
	0617	04/04/89	0001	AL	D		387.		-	-	
	0617	06/01/90	0001	AL	D		352.		-	-	
	0617	10/09/90	0001	AL	D		390.		5.	-	-
	0618	09/18/87	0001	AL	D		344.		-	-	-
	0618	10/11/88	0001	AL	D		340.		-	-	-
	0619	09/19/87	0001	AL	D		778.		-	-	-
	0619	04/05/89	0001	AL	D		1210.		-	-	-
	0619	06/01/90	0001	AL	D		1141.		-	-	-
	0619	10/09/90	0001	AL	D		1060.		5.	-	-
	0620	09/16/86	0001	AL	D		1172.0		-	-	-
	0620	08/30/87	0001	AL	D		1405.		-	-	-
	0620	04/05/89	0001	AL	D		1168.		-	-	-
	0620	06/01/90	0001	AL	D		939.		-	-	-
	0621	09/15/86	0001	AL	D		1299.0		-	-	-
	0621	09/01/87	0001	AL	D		1370.		-	-	-
	0622	09/16/86	0001	AL	D		1466.0		-	-	-
	0622	09/01/87	0001	AL	D		1666.		-	-	-
	0623	09/01/87	0001	AL	D		995.		-	-	-
	0624	09/18/86	0001	AL	D		879.0		-	-	-
	0624	09/01/87	0001	AL	D		960.		-	-	-
	0624	04/04/89	0001	AL	D		1374.		-	-	-
	0624	10/09/90	0001	AL	D		723.		-	-	-
	0625	09/03/87	0001	AL	D		1091.		-	-	-
	0626	09/01/87	0001	AL	D		829.		-	-	-
	0626	04/05/89	0001	AL	D		403.		-	-	-
	0626	06/04/90	0001	AL	D		320.		-	-	-
	0626	10/11/90	0001	AL	D		301.		-	-	-
	0627	09/14/86	0001	AL	D		593.0		-	-	-
	0627	09/16/87	0001	AL	D		330.		-	-	-
	0628	09/16/87	0001	AL	D		399.		-	-	-
	0628	04/05/89	0001	AL	D		277.		-	-	-
	0628	06/04/90	0001	AL	D		243.		-	-	-
	0628	10/11/90	0001	AL	D		293.		-	-	-
	0629	08/30/87	0001	AL	D		125.		-	-	-
	0629	04/18/89	0001	AL	D		116.		-	-	-
	0630	09/15/86	0001	AL	D		170.0		-	-	-
0630	08/30/87	0001	AL	D	124.		-	-	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	0630	06/04/90	0001	AL	D	MG/L CACO3	130.		-	-
	0630	10/10/90	0001	AL	D		218.		5.	-
	0631	09/20/86	0001	AL	D		486.0		-	-
	0631	08/30/87	0001	AL	D		447.		-	-
	0632	09/20/86	0001	AL	D		406.0		-	-
	0632	09/01/87	0001	AL	D		428.		-	-
	0632	11/12/87	0001	AL	D		469.		-	-
	0633	04/19/89	0001	AL	D		108.		-	-
	0638	03/19/87	0001	AL	D		578.		-	-
	0638	05/14/87	0001	AL	D		521.		-	-
	0638	09/25/87	0001	AL	D		254.		-	-
	0638	10/09/88	0001	AL	D		180.		-	-
	0638	04/20/89	0001	AL	D		250.		-	-
	0639	03/19/87	0001	AL	D		604.		-	-
	0639	05/14/87	0001	AL	D		350.		-	-
	0639	09/25/87	0001	AL	D		538.		-	-
	0639	10/09/88	0001	AL	D		488.		-	-
	0639	04/20/89	0001	AL	D		422.		-	-
	0640	03/19/87	0001	AL	D		823.		-	-
	0640	09/24/87	0001	AL	D		742.		-	-
	0640	04/19/89	0001	AL	D		548.		-	-
	0641	03/18/87	0001	AL	D		1853.		-	-
	0641	05/14/87	0001	AL	D		1564.		-	-
	0641	09/24/87	0001	AL	D		1561.		-	-
	0641	10/09/88	0001	AL	D		2325.		-	-
	0641	04/18/89	0001	AL	D		1042.		-	-
	0642	03/19/87	0001	AL	D		842.		-	-
	0642	05/20/87	0001	AL	D		521.		-	-
	0642	09/23/87	0001	AL	D		959.		-	-
	0642	04/18/89	0001	AL	D		859.		-	-
	0643	03/19/87	0001	AL	D		1727.		-	-
	0643	09/24/87	0001	AL	D		1418.		-	-
	0643	04/18/89	0001	AL	D		1276.		-	-
	0644	03/18/87	0001	AL	D		749.		-	-
	0644	05/20/87	0001	AL	D		865.		-	-
	0644	09/23/87	0001	AL	D		857.		-	-
	0644	10/09/88	0001	AL	D		617.		-	-
	0645	03/17/87	0001	AL	U		197.		-	-
	0645	05/16/87	0001	AL	U		219.		-	-
	0645	09/23/87	0001	AL	U		185.		-	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)

APPENDIX B

SITE: SHP01 SHIPROCK

09/14/86 TO 01/08/91

REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	0645	04/02/89	0001	AL	U	MG/L CaCO3	217.		-	-
	0646	03/18/87	0001	AL	U		286.		-	-
	0646	05/16/87	0001	AL	U		247.		-	-
	0646	09/22/87	0001	AL	U		184.		-	-
	0646	10/09/88	0001	AL	U		165.		-	-
	0646	04/02/89	0001	AL	U		183.		-	-
	0647	03/18/87	0001	AL	U		320.		-	-
	0647	05/17/87	0001	AL	U		185.		-	-
	0647	09/20/87	0001	AL	U		112.		-	-
	0647	04/02/89	0001	AL	U		218.		-	-
	0670	01/20/88	0001	AL	D		377.		-	-
	0670	05/17/88	0001	AL	D		366.		-	-
	0670	10/09/88	0001	AL	D		347.		-	-
	0670	04/21/89	0001	AL	D		338.		-	-
	0671	01/20/88	0001	AL	D		379.		-	-
	0671	05/17/88	0001	AL	D		565.		-	-
	0671	10/09/88	0001	AL	D		470.		-	-
	0671	04/21/89	0001	AL	D		554.		-	-
	0672	01/20/88	0001	AL	D		404.		-	-
	0672	05/17/88	0001	AL	D		416.		-	-
0672	10/09/88	0001	AL	D	322.		-	-		
0672	04/22/89	0001	AL	D	345.		-	-		
ALUMINUM	0601	09/19/86	0001	AL	U	MG/L	0.3		0.1	-
	0602	09/18/87	0001	AL	D		0.29		0.1	-
	0603	09/03/87	0001	AL	D		0.59		0.1	-
	0603	04/06/89	0001	AL	D		< 0.1		0.1	-
	0603	06/04/90	0001	AL	D		< .1		0.1	-
	0604	09/03/87	0001	AL	D		0.31		0.1	-
	0607	09/19/86	0001	AL	D		0.4		0.1	-
	0607	09/01/87	0001	AL	D		0.53		0.1	-
	0608	09/18/86	0001	AL	D		0.2		0.1	-
	0608	09/22/87	0001	AL	D		0.61		0.1	-
	0608	04/03/89	0001	AL	D		< 0.1		0.1	-
	0608	06/01/90	0001	AL	D		< .1		0.1	-
	0608	10/07/90	0001	AL	D		< 0.1	1c	0.1	-
	0609	09/17/86	0001	AL	D		0.2		0.1	-
	0609	09/21/87	0001	AL	D		0.73		0.1	-

FORMATION OF COMPLETION CODE:

AL - ALLUVIUM

FLOW RELATIONSHIP CODE:

U - UPGRADIENT

D - DOWN GRADIENT

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

OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE

c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALUMINUM	0610	09/18/86	0001	AL	D	MG/L	0.3		0.1	-
	0610	09/21/87	0001	AL	D		0.77		0.1	-
	0610	04/03/89	0001	AL	D		< 0.1		0.1	-
	0610	06/01/90	0001	AL	D		< .1		0.1	-
	0610	10/07/90	0001	AL	D		< 0.05		0.05	-
	0611	09/19/87	0001	AL	D		0.34		0.1	-
	0612	09/17/86	0001	AL	D		0.2		0.1	-
	0612	09/19/87	0001	AL	D		0.14		0.1	-
	0612	04/03/89	0001	AL	D		< 0.1		0.1	-
	0613	09/18/86	0001	AL	D		0.3		0.1	-
	0613	09/18/87	0001	AL	D		0.43		0.1	-
	0614	09/18/87	0001	AL	D		0.41		0.1	-
	0614	04/03/89	0001	AL	D		< 0.1		0.1	-
	0614	06/01/90	0001	AL	D		< .1		0.1	-
	0614	10/07/90	0001	AL	D		< 0.05		0.05	-
	0615	09/18/87	0001	AL	D		0.46		0.1	-
	0615	04/03/89	0001	AL	D		< 0.1		0.1	-
	0615	06/01/90	0001	AL	D		< .1		0.1	-
	0615	10/09/90	0001	AL	D		< 0.1	Ic	0.1	-
	0616	09/15/86	0001	AL	D		0.2		0.1	-
	0616	09/18/87	0001	AL	D		0.25		0.1	-
	0616	04/04/89	0001	AL	D		< 0.1		0.1	-
	0616	06/01/90	0001	AL	D		< .1		0.1	-
	0616	10/09/90	0001	AL	D		< 0.05		0.05	-
	0617	09/18/87	0001	AL	D		0.45		0.1	-
	0617	04/04/89	0001	AL	D		< 0.1		0.1	-
	0617	06/01/90	0001	AL	D		< .1		0.1	-
	0617	10/09/90	0001	AL	D		< 0.05		0.05	-
	0618	09/18/87	0001	AL	D		0.74		0.1	-
	0619	09/19/87	0001	AL	D		1.15		0.1	-
	0619	04/05/89	0001	AL	D		< 0.1		0.1	-
	0619	06/01/90	0001	AL	D		< .1		0.1	-
	0619	10/09/90	0001	AL	D		< 0.05		0.05	-
0620	09/16/86	0001	AL	D		0.3		0.1	-	
0620	08/30/87	0001	AL	D		0.51		0.1	-	
0620	04/05/89	0001	AL	D		< 0.1		0.1	-	
0620	06/01/90	0001	AL	D		< .1		0.1	-	
0621	09/15/86	0001	AL	D		0.3		0.1	-	
0621	09/01/87	0001	AL	D		0.52		0.1	-	

B-7

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALUMINUM	0622	09/16/86	0001	AL	D	MG/L	0.4		0.1	-
	0622	09/01/87	0001	AL	D		0.54		0.1	-
	0623	09/01/87	0001	AL	D		0.49		0.1	-
	0624	09/18/86	0001	AL	D		0.3		0.1	-
	0624	09/01/87	0001	AL	D		0.51		0.1	-
	0624	04/04/89	0001	AL	D		< 0.1		0.1	-
	0624	10/09/90	0001	AL	D		< 0.05		0.05	-
	0625	09/03/87	0001	AL	D		0.50		0.1	-
	0626	09/01/87	0001	AL	D		0.36		0.1	-
	0626	04/05/89	0001	AL	D		< 0.1		0.1	-
	0626	06/04/90	0001	AL	D		< .1		0.1	-
	0626	10/11/90	0001	AL	D		< 0.05		0.05	-
	0627	09/14/86	0001	AL	D		0.3		0.1	-
	0627	09/16/87	0001	AL	D		0.32		0.1	-
	0628	09/16/87	0001	AL	D		0.33		0.1	-
	0628	04/05/89	0001	AL	D		< 0.1		0.1	-
	0628	06/04/90	0001	AL	D		< .1		0.1	-
	0628	10/11/90	0001	AL	D		< 0.05		0.05	-
	0629	08/30/87	0001	AL	D		0.30		0.1	-
	0629	04/18/89	0001	AL	D		< 0.1		0.1	-
	0630	09/15/86	0001	AL	D		0.1		0.1	-
	0630	08/30/87	0001	AL	D		0.51		0.1	-
	0630	06/04/90	0001	AL	D		< .1		0.1	-
	0630	10/10/90	0001	AL	D		< 0.05		0.05	-
	0631	09/20/86	0001	AL	D		0.2		0.1	-
	0631	08/30/87	0001	AL	D		0.92		0.1	-
	0632	09/20/86	0001	AL	D		0.3		0.1	-
	0632	09/01/87	0001	AL	D		0.26		0.1	-
	0632	11/12/87	0001	AL	D		0.28		0.1	-
	0633	04/19/89	0001	AL	D		< 0.1		0.1	-
	0638	03/19/87	0001	AL	D		0.2		0.1	-
	0638	05/14/87	0001	AL	D		0.06	c	0.06	-
	0638	09/25/87	0001	AL	D		0.08	c	0.08	-
	0638	04/20/89	0001	AL	D		< 0.1		0.1	-
	0639	03/19/87	0001	AL	D		0.1		0.1	-
	0639	05/14/87	0001	AL	D		0.13		0.1	-
	0639	09/25/87	0001	AL	D		0.27		0.1	-
	0639	04/20/89	0001	AL	D		< 0.1		0.1	-
	0640	03/19/87	0001	AL	D		0.2		0.1	-
	0640	09/24/87	0001	AL	D		0.34		0.1	-

B-8

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALUMINIUM	0640	04/19/89	0001	AL	D	MG/L	< 0.1		0.1	-
	0641	03/18/87	0001	AL	D		< 0.1		0.1	-
	0641	05/14/87	0001	AL	D		0.38		0.1	-
	0641	09/24/87	0001	AL	D		0.42		0.1	-
	0641	04/18/89	0001	AL	D		< 0.1		0.1	-
	0642	03/19/87	0001	AL	D		0.1		0.1	-
	0642	05/20/87	0001	AL	D		0.20		0.1	-
	0642	09/23/87	0001	AL	D		0.53		0.1	-
	0642	04/18/89	0001	AL	D		< 0.1		0.1	-
	0643	03/19/87	0001	AL	D		0.1		0.1	-
	0643	09/24/87	0001	AL	D		0.52		0.1	-
	0643	04/18/89	0001	AL	D		< 0.1		0.1	-
	0644	03/18/87	0001	AL	D		0.1		0.1	-
	0644	05/20/87	0001	AL	D		0.45		0.1	-
	0644	09/23/87	0001	AL	D		0.56		0.1	-
	0645	03/17/87	0001	AL	U		0.2		0.1	-
	0645	05/16/87	0001	AL	U		0.04	c	0.04	-
	0645	09/23/87	0001	AL	U		0.05	c	0.05	-
	0645	04/02/89	0001	AL	U		< 0.1		0.1	-
	0646	03/18/87	0001	AL	U		0.1		0.1	-
	0646	05/16/87	0001	AL	U		0.06	c	0.06	-
	0646	09/22/87	0001	AL	U		0.06	c	0.06	-
	0646	04/02/89	0001	AL	U		< 0.1		0.1	-
	0647	03/18/87	0001	AL	U		0.2		0.1	-
	0647	05/17/87	0001	AL	U		0.06	c	0.06	-
	0647	09/20/87	0001	AL	U		0.05	c	0.05	-
	0647	04/02/89	0001	AL	U		< 0.1		0.1	-
	0670	03/31/88	0001	AL	D		0.15		0.1	-
	0670	04/21/89	0001	AL	D		< 0.1		0.1	-
	0671	03/31/88	0001	AL	D		0.15		0.1	-
0671	04/21/89	0001	AL	D		< 0.1		0.1	-	
0672	03/31/88	0001	AL	D		0.09	c	0.09	-	
0672	04/22/89	0001	AL	D		< 0.1		0.1	-	
AMMONIUM	0601	09/19/86	0001	AL	U	MG/L	0.2		0.1	-
	0602	09/18/87	0001	AL	D		41.3		0.1	-
	0603	09/03/87	0001	AL	D		0.1		0.1	-
	0603	04/06/89	0001	AL	D		< 0.1		0.1	-
	0603	06/04/90	0001	AL	D		3780.		0.1	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI	VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
AMMONIUM	0604	09/03/87	0001	AL	D	MG/L	<	0.1		0.1	-
	0607	09/19/86	0001	AL	D			0.2		0.1	-
	0607	09/01/87	0001	AL	D			11.2		0.1	-
	0608	09/18/86	0001	AL	D			380.0		0.1	-
	0608	09/22/87	0001	AL	D			516.		0.1	-
	0608	04/03/89	0001	AL	D			460.		0.1	-
	0608	06/01/90	0001	AL	D			520.		0.1	-
	0608	10/07/90	0001	AL	D			443.		0.1	-
	0609	09/17/86	0001	AL	D			390.0		0.1	-
	0609	09/21/87	0001	AL	D			568.		0.1	-
	0610	09/18/86	0001	AL	D			30.0		0.1	-
	0610	09/21/87	0001	AL	D			37.4		0.1	-
	0610	04/03/89	0001	AL	D			82.		0.1	-
	0610	06/01/90	0001	AL	D			143.		0.1	-
	0610	10/07/90	0001	AL	D			173.		0.1	-
	0611	09/19/87	0001	AL	D			21.9		0.1	-
	0612	09/17/86	0001	AL	D			21.0		0.1	-
	0612	09/19/87	0001	AL	D			16.8		0.1	-
	0612	04/03/89	0001	AL	D			0.1	<	0.1	-
	0613	09/18/86	0001	AL	D			57.0		0.1	-
	0613	09/18/87	0001	AL	D			90.3		0.1	-
	0614	09/18/87	0001	AL	D			64.5		0.1	-
	0614	10/11/88	0001	AL	D			56.		0.1	-
	0614	04/03/89	0001	AL	D			57.		0.1	-
	0614	06/01/90	0001	AL	D			74.2		0.1	-
	0614	10/07/90	0001	AL	D			75.7		0.1	-
	0615	09/18/87	0001	AL	D			190.		0.1	-
	0615	04/03/89	0001	AL	D			200.		0.1	-
	0615	06/01/90	0001	AL	D			141.		0.1	-
	0615	10/09/90	0001	AL	D			140.		0.1	-
	0616	09/15/86	0001	AL	D			1.0		0.1	-
	0616	09/18/87	0001	AL	D			14.2		0.1	-
	0616	04/04/89	0001	AL	D			17.		0.1	-
	0616	06/01/90	0001	AL	D			19.4		0.1	-
0616	10/09/90	0001	AL	D			22.5		0.1	-	
0617	09/18/87	0001	AL	D			129.		0.1	-	
0617	04/04/89	0001	AL	D			120.		0.1	-	
0617	06/01/90	0001	AL	D			108.		0.1	-	
0617	10/09/90	0001	AL	D			109.		0.1	-	
0618	09/18/87	0001	AL	D			124.		0.1	-	
0618	10/11/88	0001	AL	D			110.		0.1	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
AMMONIUM	0619	09/19/87	0001	AL	D	MG/L	83.9		0.1	-
	0619	04/05/89	0001	AL	D		81.		0.1	-
	0619	06/01/90	0001	AL	D		28.8		0.1	-
	0619	10/09/90	0001	AL	D		273.		0.1	-
	0620	09/16/86	0001	AL	D		18.0		0.1	-
	0620	08/30/87	0001	AL	D		11.2		0.1	-
	0620	04/05/89	0001	AL	D		2.6		0.1	-
	0620	06/01/90	0001	AL	D		1.2		0.1	-
	0621	09/15/86	0001	AL	D		13.0		0.1	-
	0621	09/01/87	0001	AL	D		9.0		0.1	-
	0622	09/16/86	0001	AL	D		15.0		0.1	-
	0622	09/01/87	0001	AL	D		10.3		0.1	-
	0623	09/01/87	0001	AL	D		47.7		0.1	-
	0624	09/18/86	0001	AL	D		15.0		0.1	-
	0624	09/01/87	0001	AL	D		71.		0.1	-
	0624	04/04/89	0001	AL	D		27.		0.1	-
	0624	10/09/90	0001	AL	D		10.4		0.1	-
	0625	09/03/87	0001	AL	D		42.6		0.1	-
	0626	09/01/87	0001	AL	D		< 0.1		0.1	-
	0626	04/05/89	0001	AL	D		< 0.1		0.1	-
	0626	06/04/90	0001	AL	D		< .1		0.1	-
	0626	10/11/90	0001	AL	D		0.2		0.1	-
	0627	09/14/86	0001	AL	D		0.6		0.1	-
	0627	09/16/87	0001	AL	D		< 0.1		0.1	-
	0628	09/16/87	0001	AL	D		< 0.1		0.1	-
	0628	04/05/89	0001	AL	D		< 0.1		0.1	-
	0628	06/04/90	0001	AL	D		< .1		0.1	-
	0628	10/11/90	0001	AL	D		0.2		0.1	-
	0629	08/30/87	0001	AL	D		2.5		0.1	-
	0629	04/18/89	0001	AL	D		< 0.1		0.1	-
	0630	09/15/86	0001	AL	D		0.6		0.1	-
	0630	08/30/87	0001	AL	D		2.5		0.1	-
	0630	06/04/90	0001	AL	D		< .1		0.1	-
	0630	10/10/90	0001	AL	D		0.1		0.1	-
	0631	09/20/86	0001	AL	D		< 0.1		0.1	-
	0631	08/30/87	0001	AL	D		6.8		0.1	-
	0632	09/20/86	0001	AL	D		0.2		0.1	-
	0632	09/01/87	0001	AL	D		3.6		0.1	-
	0632	11/12/87	0001	AL	D		< 0.1		0.1	-
	0633	04/19/89	0001	AL	D		< 0.1		0.1	-
0638	03/19/87	0001	AL	D	0.6		0.1	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
AMMONIUM	0638	05/14/87	0001	AL	D	MG/L	<	0.1		0.1	-
	0638	09/25/87	0001	AL	D		<	0.1		0.1	-
	0638	10/09/88	0001	AL	D			0.4		0.1	-
	0638	04/20/89	0001	AL	D			0.4		0.1	-
	0639	03/19/87	0001	AL	D		<	0.1		0.1	-
	0639	05/14/87	0001	AL	D		<	0.1		0.1	-
	0639	09/25/87	0001	AL	D		<	0.1		0.1	-
	0639	10/09/88	0001	AL	D		<	0.1		0.1	-
	0639	04/20/89	0001	AL	D			0.3		0.1	-
	0640	03/19/87	0001	AL	D			0.3		0.1	-
	0640	09/24/87	0001	AL	D		<	0.1		0.1	-
	0640	04/19/89	0001	AL	D			3.0		0.1	-
	0641	03/18/87	0001	AL	D		<	0.1		0.1	-
	0641	05/14/87	0001	AL	D			0.4		0.1	-
	0641	09/24/87	0001	AL	D		<	0.1		0.1	-
	0641	10/09/88	0001	AL	D		<	0.1		0.1	-
	0641	04/18/89	0001	AL	D		<	0.1		0.1	-
	0642	03/19/87	0001	AL	D			0.8		0.1	-
	0642	05/20/87	0001	AL	D			0.3		0.1	-
	0642	09/23/87	0001	AL	D			0.6		0.1	-
	0642	04/18/89	0001	AL	D			0.3		0.1	-
	0643	03/19/87	0001	AL	D			1.0		0.1	-
	0643	09/24/87	0001	AL	D			5.0		0.1	-
	0643	04/18/89	0001	AL	D			0.2		0.1	-
	0644	03/18/87	0001	AL	D			0.5		0.1	-
	0644	05/20/87	0001	AL	D			0.9		0.1	-
	0644	09/23/87	0001	AL	D			1.3		0.1	-
	0644	10/09/88	0001	AL	D			0.6		0.1	-
	0645	03/17/87	0001	AL	U		<	0.1		0.1	-
	0645	05/16/87	0001	AL	U		<	0.1		0.1	-
	0645	09/23/87	0001	AL	U		<	0.1		0.1	-
	0645	04/02/89	0001	AL	U			2.2		0.1	-
	0646	03/18/87	0001	AL	U			0.5		0.1	-
0646	05/16/87	0001	AL	U			1.3		0.1	-	
0646	09/22/87	0001	AL	U			2.2		0.1	-	
0646	10/09/88	0001	AL	U			3.1		0.1	-	
0646	04/02/89	0001	AL	U			1.4		0.1	-	
0647	03/18/87	0001	AL	U			2.3		0.1	-	
0647	05/17/87	0001	AL	U			1.0		0.1	-	
0647	09/20/87	0001	AL	U			0.8		0.1	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI	VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
AMMONIUM	0647	04/02/89	0001	AL	U	MG/L		6.3		0.1	-
	0670	01/20/88	0001	AL	D		<	0.1		0.1	-
	0670	03/31/88	0001	AL	D		<	0.1		0.1	-
	0670	05/17/88	0001	AL	D		<	0.1		0.1	-
	0670	10/09/88	0001	AL	D			0.7		0.1	-
	0670	04/21/89	0001	AL	D			0.8		0.1	-
	0671	01/20/88	0001	AL	D			0.1		0.1	-
	0671	03/31/88	0001	AL	D			0.8		0.1	-
	0671	05/17/88	0001	AL	D			1.1		0.1	-
	0671	10/09/88	0001	AL	D			0.6		0.1	-
	0671	04/21/89	0001	AL	D			2.2		0.1	-
	0672	01/20/88	0001	AL	D		<	0.1		0.1	-
	0672	03/31/88	0001	AL	D		<	0.1		0.1	-
	0672	05/17/88	0001	AL	D		<	0.1		0.1	-
	0672	10/09/88	0001	AL	D			0.2		0.1	-
	0672	04/22/89	0001	AL	D		<	0.1		0.1	-
ANTIMONY	0601	09/19/86	0001	AL	U	MG/L	<	0.003		0.003	-
	0602	09/18/87	0001	AL	D			0.116		0.003	-
	0603	09/03/87	0001	AL	D			0.068		0.003	-
	0603	04/06/89	0001	AL	D			0.071		0.003	-
	0603	06/04/90	0001	AL	D			.025		0.003	-
	0604	09/03/87	0001	AL	D			0.068		0.003	-
	0607	09/19/86	0001	AL	D		<	0.003		0.003	-
	0607	09/01/87	0001	AL	D			0.039		0.003	-
	0608	09/18/86	0001	AL	D		<	0.003		0.003	-
	0608	09/22/87	0001	AL	D			0.129		0.003	-
	0608	04/03/89	0001	AL	D			0.037		0.003	-
	0608	06/01/90	0001	AL	D			.005		0.003	-
	0608	10/07/90	0001	AL	D		<	0.02	Ic	0.02	-
	0609	09/17/86	0001	AL	D		<	0.003		0.003	-
	0609	09/21/87	0001	AL	D			0.055		0.003	-
	0610	09/18/86	0001	AL	D		<	0.003		0.003	-
	0610	09/21/87	0001	AL	D			0.103		0.003	-
	0610	04/03/89	0001	AL	D			0.009		0.003	-
	0610	06/01/90	0001	AL	D		<	.1	c	.1	-
0610	10/07/90	0001	AL	D		<	0.02	Ic	0.02	-	
0611	09/19/87	0001	AL	D			0.084		0.003	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 U - UPGRADIENT
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ANTIMONY	0612	09/17/86	0001	AL	D	MG/L	<	0.003		0.003	-
	0612	09/19/87	0001	AL	D			0.042		0.003	-
	0612	04/03/89	0001	AL	D			0.004		0.003	-
	0613	09/18/86	0001	AL	D		<	0.003		0.003	-
	0613	09/18/87	0001	AL	D			0.103		0.003	-
	0614	09/18/87	0001	AL	D			0.068		0.003	-
	0614	10/11/88	0001	AL	D			0.027		0.003	-
	0614	04/03/89	0001	AL	D			0.007		0.003	-
	0614	06/01/90	0001	AL	D		<	.003		0.003	-
	0614	10/07/90	0001	AL	D		<	0.02	Ic	0.02	-
	0615	09/18/87	0001	AL	D			0.074		0.003	-
	0615	04/03/89	0001	AL	D			0.049		0.003	-
	0615	06/01/90	0001	AL	D			.003		0.003	-
	0615	10/09/90	0001	AL	D		<	0.02	Ic	0.02	-
	0616	09/15/86	0001	AL	D		<	0.003		0.003	-
	0616	09/18/87	0001	AL	D			0.080		0.003	-
	0616	04/04/89	0001	AL	D			0.007		0.003	-
	0616	06/01/90	0001	AL	D			.003		0.003	-
	0616	10/09/90	0001	AL	D		<	0.003		0.003	-
	0617	09/18/87	0001	AL	D			0.068		0.003	-
	0617	04/04/89	0001	AL	D			0.004		0.003	-
	0617	06/01/90	0001	AL	D		<	.003		0.003	-
	0617	10/09/90	0001	AL	D		<	0.003		0.003	-
	0618	09/18/87	0001	AL	D			0.042		0.003	-
	0618	10/11/88	0001	AL	D			0.010		0.003	-
	0619	09/19/87	0001	AL	D			0.084		0.003	-
	0619	04/05/89	0001	AL	D			0.042		0.003	-
	0619	06/01/90	0001	AL	D			.003		0.003	-
	0619	10/09/90	0001	AL	D		<	0.02	Ic	0.02	-
	0620	09/16/86	0001	AL	D		<	0.003		0.003	-
	0620	08/30/87	0001	AL	D			0.205		0.003	-
	0620	04/05/89	0001	AL	D			0.026		0.003	-
0620	06/01/90	0001	AL	D	<	.003		0.003	-		
0621	09/15/86	0001	AL	D	<	0.003		0.003	-		
0621	09/01/87	0001	AL	D		0.205		0.003	-		
0622	09/16/86	0001	AL	D	<	0.003		0.003	-		
0622	09/01/87	0001	AL	D		0.226		0.003	-		
0623	09/01/87	0001	AL	D		0.188		0.003	-		
0624	09/18/86	0001	AL	D	<	0.003		0.003	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ANTIMONY	0624	09/01/87	0001	AL	D	MG/L		0.162		0.003	-
	0624	04/04/89	0001	AL	D			0.036		0.003	-
	0624	10/09/90	0001	AL	D		<	0.02	Ic	0.02	-
	0625	09/03/87	0001	AL	D			0.174		0.003	-
	0626	09/01/87	0001	AL	D			0.084		0.003	-
	0626	04/05/89	0001	AL	D			0.022		0.003	-
	0626	06/04/90	0001	AL	D			.025		0.003	-
	0626	10/11/90	0001	AL	D		<	0.02	Ic	0.02	-
	0627	09/14/86	0001	AL	D		<	0.003		0.003	-
	0627	09/16/87	0001	AL	D			0.026		0.003	-
	0628	09/16/87	0001	AL	D			0.009		0.003	-
	0628	04/05/89	0001	AL	D			0.028		0.003	-
	0628	06/04/90	0001	AL	D			.038		0.003	-
	0628	10/11/90	0001	AL	D		<	0.02	c	0.02	-
	0629	08/30/87	0001	AL	D			0.016		0.003	-
	0629	04/18/89	0001	AL	D			0.006		0.003	-
	0630	09/15/86	0001	AL	D		<	0.003		0.003	-
	0630	08/30/87	0001	AL	D			0.009		0.003	-
	0630	06/04/90	0001	AL	D			.026		0.003	-
	0630	10/10/90	0001	AL	D		<	0.02	Ic	0.02	-
	0631	09/20/86	0001	AL	D		<	0.003		0.003	-
	0631	08/30/87	0001	AL	D			0.008		0.003	-
	0632	09/20/86	0001	AL	D		<	0.003		0.003	-
	0632	09/01/87	0001	AL	D		<	0.003		0.003	-
	0632	11/12/87	0001	AL	D			0.043		0.003	-
	0633	04/19/89	0001	AL	D			0.006		0.003	-
	0638	03/19/87	0001	AL	D		<	0.003		0.003	-
	0638	05/14/87	0001	AL	D			0.103		0.003	-
	0638	09/25/87	0001	AL	D		<	0.003		0.003	-
	0638	10/09/88	0001	AL	D		<	0.003		0.003	-
	0638	04/20/89	0001	AL	D		<	0.003		0.003	-
	0639	03/19/87	0001	AL	D		<	0.003		0.003	-
	0639	05/14/87	0001	AL	D			0.172		0.003	-
	0639	09/25/87	0001	AL	D			0.026		0.003	-
	0639	10/09/88	0001	AL	D			0.013		0.003	-
	0639	04/20/89	0001	AL	D			0.008		0.003	-
	0640	03/19/87	0001	AL	D		<	0.003		0.003	-
	0640	09/24/87	0001	AL	D			0.029		0.003	-
	0640	04/19/89	0001	AL	D			0.013		0.003	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ANTIMONY	0641	03/18/87	0001	AL	D	MG/L	<	0.003		0.003	-
	0641	05/14/87	0001	AL	D			0.622		0.003	-
	0641	09/24/87	0001	AL	D			0.019		0.003	-
	0641	10/09/88	0001	AL	D			0.098		0.003	-
	0641	04/18/89	0001	AL	D			0.048		0.003	-
	0642	03/19/87	0001	AL	D		<	0.003		0.003	-
	0642	05/20/87	0001	AL	D			0.372		0.003	-
	0642	09/23/87	0001	AL	D			0.032		0.003	-
	0642	04/18/89	0001	AL	D			0.048		0.003	-
	0643	03/19/87	0001	AL	D		<	0.003		0.003	-
	0643	09/24/87	0001	AL	D			0.142		0.003	-
	0643	04/18/89	0001	AL	D			0.093		0.003	-
	0644	03/18/87	0001	AL	D		<	0.003		0.003	-
	0644	05/20/87	0001	AL	D			0.742		0.003	-
	0644	09/23/87	0001	AL	D			0.039		0.003	-
	0644	10/09/88	0001	AL	D			0.046		0.003	-
	0645	03/17/87	0001	AL	U		<	0.003		0.003	-
	0645	05/16/87	0001	AL	U			0.052		0.003	-
	0645	09/23/87	0001	AL	U			0.055		0.003	-
	0645	04/02/89	0001	AL	U			0.008		0.003	-
	0646	03/18/87	0001	AL	U		<	0.003		0.003	-
	0646	05/16/87	0001	AL	U			0.087		0.003	-
	0646	09/22/87	0001	AL	U		<	0.003		0.003	-
	0646	10/09/88	0001	AL	U			0.004		0.003	-
	0646	04/02/89	0001	AL	U		<	0.003		0.003	-
	0647	03/18/87	0001	AL	U		<	0.003		0.003	-
	0647	05/17/87	0001	AL	U			0.037		0.003	-
	0647	09/20/87	0001	AL	U			0.004		0.003	-
	0647	04/02/89	0001	AL	U			0.005		0.003	-
	0670	10/09/88	0001	AL	D			0.003		0.003	-
	0670	04/21/89	0001	AL	D		<	0.003		0.003	-
	0671	10/09/88	0001	AL	D		<	0.003		0.003	-
0671	04/21/89	0001	AL	D			0.004		0.003	-	
0672	10/09/88	0001	AL	D		<	0.003		0.003	-	
0672	04/22/89	0001	AL	D			0.004		0.003	-	
ARSENIC	0601	09/19/86	0001	AL	U	MG/L	<	0.01		0.01	-
	0602	09/18/87	0001	AL	D			0.008	c	0.008	-
	0603	09/03/87	0001	AL	D			0.082		0.01	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ARSENIC	0603	04/06/89	0001	AL	D	MG/L		0.02		0.01	-
	0603	06/04/90	0001	AL	D		.02		0.01	-	
	0604	09/03/87	0001	AL	D		0.017		0.01	-	
	0607	09/19/86	0001	AL	D		<	0.01		0.01	-
	0607	09/01/87	0001	AL	D			0.032		0.01	-
	0608	09/18/86	0001	AL	D		<	0.01		0.01	-
	0608	09/22/87	0001	AL	D			0.038		0.01	-
	0608	04/03/89	0001	AL	D			0.03		0.01	-
	0608	06/01/90	0001	AL	D			.03		0.01	-
	0608	10/07/90	0001	AL	D		<	0.05	Ic	0.05	-
	0609	09/17/86	0001	AL	D		<	0.01		0.01	-
	0609	09/21/87	0001	AL	D			0.034		0.01	-
	0610	09/18/86	0001	AL	D		<	0.01		0.01	-
	0610	09/21/87	0001	AL	D			0.028		0.01	-
	0610	04/03/89	0001	AL	D			0.02		0.01	-
	0610	06/01/90	0001	AL	D			.02		0.01	-
	0610	10/07/90	0001	AL	D		<	0.05	Ic	0.05	-
	0611	09/19/87	0001	AL	D			0.028		0.01	-
	0612	09/17/86	0001	AL	D		<	0.01		0.01	-
	0612	09/19/87	0001	AL	D			0.004	c	0.004	-
	0612	04/03/89	0001	AL	D		<	0.01		0.01	-
	0613	09/18/86	0001	AL	D		<	0.01		0.01	-
	0613	09/18/87	0001	AL	D			0.019		0.01	-
	0614	09/18/87	0001	AL	D			0.016		0.01	-
	0614	10/11/88	0001	AL	D			0.05		0.01	-
	0614	04/03/89	0001	AL	D		<	0.01		0.01	-
	0614	06/01/90	0001	AL	D		<	.01		0.01	-
	0614	10/07/90	0001	AL	D		<	0.05	Ic	0.05	-
	0615	09/18/87	0001	AL	D			0.031		0.01	-
	0615	04/03/89	0001	AL	D			0.03		0.01	-
	0615	06/01/90	0001	AL	D			.04		0.01	-
	0615	10/09/90	0001	AL	D		<	0.1	Ic	0.1	-
	0616	09/15/86	0001	AL	D		<	0.01		0.01	-
0616	09/18/87	0001	AL	D		0.009	c	0.009	-		
0616	04/04/89	0001	AL	D	<	0.01		0.01	-		
0616	06/01/90	0001	AL	D	<	.01		0.01	-		
0616	10/09/90	0001	AL	D	<	0.05	Ic	0.05	-		
0617	09/18/87	0001	AL	D		0.013		0.01	-		
0617	04/04/89	0001	AL	D		0.01		0.01	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ARSENIC	0617	06/01/90	0001	AL	D	MG/L	<	.01		0.01	-
	0617	10/09/90	0001	AL	D		<	0.05	Ic	0.05	-
	0618	09/18/87	0001	AL	D			0.006	c	0.006	-
	0618	10/11/88	0001	AL	D			0.03		0.01	-
	0619	09/19/87	0001	AL	D			0.053		0.01	-
	0619	04/05/89	0001	AL	D			0.05		0.01	-
	0619	06/01/90	0001	AL	D			.04		0.01	-
	0619	10/09/90	0001	AL	D		<	0.05	Ic	0.05	-
	0620	09/16/86	0001	AL	D		<	0.01		0.01	-
	0620	08/30/87	0001	AL	D			0.049		0.01	-
	0620	04/05/89	0001	AL	D			0.01		0.01	-
	0620	06/01/90	0001	AL	D			.01		0.01	-
	0621	09/15/86	0001	AL	D		<	0.01		0.01	-
	0621	09/01/87	0001	AL	D			0.061		0.01	-
	0622	09/16/86	0001	AL	D		<	0.01		0.01	-
	0622	09/01/87	0001	AL	D			0.059		0.01	-
	0623	09/01/87	0001	AL	D			0.064		0.01	-
	0624	09/18/86	0001	AL	D		<	0.01		0.01	-
	0624	09/01/87	0001	AL	D			0.056		0.01	-
	0624	04/04/89	0001	AL	D			0.02		0.01	-
	0624	10/09/90	0001	AL	D		<	0.05	Ic	0.05	-
	0625	09/03/87	0001	AL	D			0.052		0.01	-
	0626	09/01/87	0001	AL	D			0.033		0.01	-
	0626	04/05/89	0001	AL	D			0.01		0.01	-
	0626	06/04/90	0001	AL	D		<	.01		0.01	-
	0626	10/11/90	0001	AL	D		<	0.05	Ic	0.05	-
	0627	09/14/86	0001	AL	D		<	0.01		0.01	-
	0627	09/16/87	0001	AL	D			0.016		0.01	-
	0628	09/16/87	0001	AL	D			0.020		0.01	-
	0628	04/05/89	0001	AL	D		<	0.01		0.01	-
	0628	06/04/90	0001	AL	D		<	.01		0.01	-
0628	10/11/90	0001	AL	D		<	0.05	c	0.05	-	
0629	08/30/87	0001	AL	D			0.005	c	0.005	-	
0629	04/18/89	0001	AL	D		<	0.01		0.01	-	
0630	09/15/86	0001	AL	D		<	0.01		0.01	-	
0630	08/30/87	0001	AL	D			0.005	c	0.005	-	
0630	06/04/90	0001	AL	D			.02		0.01	-	
0630	10/10/90	0001	AL	D		<	0.05	Ic	0.05	-	
0631	09/20/86	0001	AL	D		<	0.01		0.01	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY	
ARSENIC	0631	08/30/87	0001	AL	D	MG/L		0.011		0.01	-	
	0632	09/20/86	0001	AL	D		<	0.01		0.01	-	
	0632	09/01/87	0001	AL	D			0.010		0.01	-	
	0632	11/12/87	0001	AL	D			0.010		0.01	-	
	0633	04/19/89	0001	AL	D		<	0.01		0.01	-	
	0638	03/19/87	0001	AL	D			0.005	c	0.005	-	
	0638	05/14/87	0001	AL	D			0.004	c	0.004	-	
	0638	09/25/87	0001	AL	D			0.005	c	0.005	-	
	0638	10/09/88	0001	AL	D			0.02		0.01	-	
	0638	04/20/89	0001	AL	D		<	0.01		0.01	-	
	0639	03/19/87	0001	AL	D			0.005	c	0.005	-	
	0639	05/14/87	0001	AL	D			0.003	c	0.003	-	
	0639	09/25/87	0001	AL	D			0.032		0.01	-	
	0639	10/09/88	0001	AL	D			0.04		0.01	-	
	0639	04/20/89	0001	AL	D			0.02		0.01	-	
	0640	03/19/87	0001	AL	D			0.006	c	0.006	-	
	0640	09/24/87	0001	AL	D			0.079		0.01	-	
	0640	04/19/89	0001	AL	D			0.04		0.01	-	
	0641	03/18/87	0001	AL	D			0.011		0.01	-	
	0641	05/14/87	0001	AL	D			0.003	c	0.003	-	
	0641	09/24/87	0001	AL	D			0.003	c	0.003	-	
	0641	10/09/88	0001	AL	D			0.32		0.01	-	
	0641	04/18/89	0001	AL	D			0.04		0.01	-	
	0642	03/19/87	0001	AL	D			0.007	c	0.007	-	
	0642	05/20/87	0001	AL	D			0.002	c	0.002	-	
	0642	09/23/87	0001	AL	D			0.129		0.01	-	
	0642	04/18/89	0001	AL	D			0.05		0.01	-	
	0643	03/19/87	0001	AL	D			0.008	c	0.008	-	
	0643	09/24/87	0001	AL	D			0.003	c	0.003	-	
	0643	04/18/89	0001	AL	D			0.05		0.01	-	
	0644	03/18/87	0001	AL	D			0.019		0.01	-	
	0644	05/20/87	0001	AL	D			0.002	c	0.002	-	
	0644	09/23/87	0001	AL	D			0.082		0.01	-	
	0644	10/09/88	0001	AL	D			0.15		0.01	-	
	0645	03/17/87	0001	AL	U			0.003	c	0.003	-	
	0645	05/16/87	0001	AL	U			<	0.001		0.01	-
	0645	09/23/87	0001	AL	U			<	0.003	c	0.003	-
	0645	04/02/89	0001	AL	U			<	0.01		0.01	-
	0646	03/18/87	0001	AL	U				0.003	c	0.003	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI	VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ARSENIC	0646	05/16/87	0001	AL	U	MG/L		0.001	c	0.001	-
	0646	09/22/87	0001	AL	U			0.006	c	0.006	-
	0646	10/09/88	0001	AL	U			0.02		0.01	-
	0646	04/02/89	0001	AL	U		<	0.01		0.01	-
	0647	03/18/87	0001	AL	U			0.004	c	0.004	-
	0647	05/17/87	0001	AL	U		<	0.001		0.01	-
	0647	09/20/87	0001	AL	U			0.001	c	0.001	-
	0647	04/02/89	0001	AL	U		<	0.01		0.01	-
	0670	01/20/88	0001	AL	D			0.009	c	0.009	-
	0670	03/31/88	0001	AL	D			0.010		0.01	-
	0670	05/17/88	0001	AL	D			0.007	c	0.007	-
	0670	10/09/88	0001	AL	D			0.02		0.01	-
	0670	04/21/89	0001	AL	D		<	0.01		0.01	-
	0671	01/20/88	0001	AL	D			0.003	c	0.003	-
	0671	03/31/88	0001	AL	D			0.010		0.01	-
	0671	05/17/88	0001	AL	D			0.010		0.01	-
	0671	10/09/88	0001	AL	D			0.02		0.01	-
	0671	04/21/89	0001	AL	D		<	0.01		0.01	-
	0672	01/20/88	0001	AL	D			0.002	c	0.002	-
	0672	03/31/88	0001	AL	D			0.005	c	0.005	-
0672	05/17/88	0001	AL	D			0.003	c	0.003	-	
0672	10/09/88	0001	AL	D			0.02		0.01	-	
0672	04/22/89	0001	AL	D		<	0.01		0.01	-	
BARIUM	0601	09/19/86	0001	AL	U	MG/L		0.2		0.1	-
	0602	09/18/87	0001	AL	D			0.02	c	0.02	-
	0603	09/03/87	0001	AL	D			0.01	c	0.01	-
	0603	04/06/89	0001	AL	D		<	0.1		0.1	-
	0603	06/04/90	0001	AL	D		<	.1		0.1	-
	0604	09/03/87	0001	AL	D			0.02	c	0.02	-
	0607	09/19/86	0001	AL	D		<	0.1		0.1	-
	0607	09/01/87	0001	AL	D			0.01	c	0.01	-
	0608	09/18/86	0001	AL	D			0.2		0.1	-
	0608	09/22/87	0001	AL	D			0.03	c	0.03	-
	0608	04/03/89	0001	AL	D		<	0.1		0.1	-
	0608	06/01/90	0001	AL	D		<	.1		0.1	-
	0608	10/07/90	0001	AL	D			0.02		0.01	-
	0609	09/17/86	0001	AL	D			0.1		0.1	-
	0609	09/21/87	0001	AL	D			0.04	c	0.04	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 U - UPGRADIENT
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BARIUM	0610	09/18/86	0001	AL	D	MG/L	<	0.1		0.1	-
	0610	09/21/87	0001	AL	D			0.03	c	0.03	-
	0610	04/03/89	0001	AL	D		<	0.1		0.1	-
	0610	06/01/90	0001	AL	D		<	.1		0.1	-
	0610	10/07/90	0001	AL	D			0.02		0.01	-
	0611	09/19/87	0001	AL	D			0.02	c	0.02	-
	0612	09/17/86	0001	AL	D			0.2		0.1	-
	0612	09/19/87	0001	AL	D			0.04	c	0.04	-
	0612	04/03/89	0001	AL	D		<	0.1		0.1	-
	0613	09/18/86	0001	AL	D			0.1		0.1	-
	0613	09/18/87	0001	AL	D			0.02	c	0.02	-
	0614	09/18/87	0001	AL	D			0.03	c	0.03	-
	0614	10/11/88	0001	AL	D		<	0.1		0.1	-
	0614	04/03/89	0001	AL	D		<	0.1		0.1	-
	0614	06/01/90	0001	AL	D		<	.1		0.1	-
	0614	10/07/90	0001	AL	D			0.02		0.01	-
	0615	09/18/87	0001	AL	D			0.03	c	0.03	-
	0615	04/03/89	0001	AL	D		<	0.1		0.1	-
	0615	06/01/90	0001	AL	D		<	.1		0.1	-
	0615	10/09/90	0001	AL	D			0.01		0.01	-
	0616	09/15/86	0001	AL	D			0.1		0.1	-
	0616	09/18/87	0001	AL	D			0.04	c	0.04	-
	0616	04/04/89	0001	AL	D		<	0.1		0.1	-
	0616	06/01/90	0001	AL	D		<	.1		0.1	-
	0616	10/09/90	0001	AL	D			0.02		0.01	-
	0617	09/18/87	0001	AL	D			0.02	c	0.02	-
	0617	04/04/89	0001	AL	D		<	0.1		0.1	-
	0617	06/01/90	0001	AL	D		<	.1		0.1	-
	0617	10/09/90	0001	AL	D			0.01		0.01	-
	0618	09/18/87	0001	AL	D			0.03	c	0.03	-
	0618	10/11/88	0001	AL	D		<	0.1		0.1	-
0619	09/19/87	0001	AL	D			0.03	c	0.03	-	
0619	04/05/89	0001	AL	D		<	0.1		0.1	-	
0619	06/01/90	0001	AL	D		<	.1		0.1	-	
0619	10/09/90	0001	AL	D		<	0.01		0.01	-	
0620	09/16/86	0001	AL	D			0.1		0.1	-	
0620	08/30/87	0001	AL	D			0.01	c	0.01	-	
0620	04/05/89	0001	AL	D		<	0.1		0.1	-	
0620	06/01/90	0001	AL	D		<	.1		0.1	-	
0621	09/15/86	0001	AL	D		<	0.1		0.1	-	

B-21

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI	VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BARIUM	0621	09/01/87	0001	AL	D	MG/L		0.01	c	0.01	-
	0622	09/16/86	0001	AL	D			0.1		0.1	-
	0622	09/01/87	0001	AL	D			0.02	c	0.02	-
	0623	09/01/87	0001	AL	D			0.02	c	0.02	-
	0624	09/18/86	0001	AL	D		<	0.1		0.1	-
	0624	09/01/87	0001	AL	D			0.02	c	0.02	-
	0624	04/04/89	0001	AL	D		<	0.1		0.1	-
	0624	10/09/90	0001	AL	D			0.01		0.01	-
	0625	09/03/87	0001	AL	D			0.02	c	0.02	-
	0626	09/01/87	0001	AL	D			0.01	c	0.01	-
	0626	04/05/89	0001	AL	D		<	0.1		0.1	-
	0626	06/04/90	0001	AL	D		<	.1		0.1	-
	0626	10/11/90	0001	AL	D			0.02		0.01	-
	0627	09/14/86	0001	AL	D		<	0.1		0.1	-
	0627	09/16/87	0001	AL	D			0.02	c	0.02	-
	0628	09/16/87	0001	AL	D			0.01	c	0.01	-
	0628	04/05/89	0001	AL	D		<	0.1		0.1	-
	0628	06/04/90	0001	AL	D		<	.1		0.1	-
	0628	10/11/90	0001	AL	D			0.02		0.01	-
	0629	08/30/87	0001	AL	D			0.02	c	0.02	-
	0629	04/18/89	0001	AL	D		<	0.1		0.1	-
	0630	09/15/86	0001	AL	D			0.1		0.1	-
	0630	08/30/87	0001	AL	D			0.03	c	0.03	-
	0630	06/04/90	0001	AL	D		<	.1		0.1	-
	0630	10/10/90	0001	AL	D			0.01		0.01	-
	0631	09/20/86	0001	AL	D		<	0.1		0.1	-
	0631	08/30/87	0001	AL	D			0.03	c	0.03	-
	0632	09/20/86	0001	AL	D		<	0.1		0.1	-
	0632	09/01/87	0001	AL	D			0.03	c	0.03	-
	0632	11/12/87	0001	AL	D			0.02	c	0.02	-
	0633	04/19/89	0001	AL	D		<	0.1		0.1	-
	0638	03/19/87	0001	AL	D		<	0.1		0.1	-
	0638	05/14/87	0001	AL	D			0.03	c	0.03	-
0638	09/25/87	0001	AL	D		0.05	c	0.05	-		
0638	10/09/88	0001	AL	D	<	0.1		0.1	-		
0638	04/20/89	0001	AL	D	<	0.1		0.1	-		
0639	03/19/87	0001	AL	D	<	0.1		0.1	-		
0639	05/14/87	0001	AL	D		0.03	c	0.03	-		
0639	09/25/87	0001	AL	D		0.04	c	0.04	-		
0639	10/09/88	0001	AL	D	<	0.1		0.1	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BARIUM	0639	04/20/89	0001	AL	D	MG/L	<	0.1		0.1	-
	0640	03/19/87	0001	AL	D		<	0.1		0.1	-
	0640	09/24/87	0001	AL	D		<	0.01	c	0.01	-
	0640	04/19/89	0001	AL	D		<	0.1		0.1	-
	0641	03/18/87	0001	AL	D		<	0.1		0.1	-
	0641	05/14/87	0001	AL	D		<	0.04	c	0.04	-
	0641	09/24/87	0001	AL	D		<	0.03	c	0.03	-
	0641	10/09/88	0001	AL	D		<	0.1		0.1	-
	0641	04/18/89	0001	AL	D		<	0.1		0.1	-
	0642	03/19/87	0001	AL	D		<	0.1		0.1	-
	0642	05/20/87	0001	AL	D		<	0.04	c	0.04	-
	0642	09/23/87	0001	AL	D		<	0.02	c	0.02	-
	0642	04/18/89	0001	AL	D		<	0.1		0.1	-
	0643	03/19/87	0001	AL	D		<	0.1		0.1	-
	0643	09/24/87	0001	AL	D		<	0.01		0.1	-
	0643	04/18/89	0001	AL	D		<	0.1		0.1	-
	0644	03/18/87	0001	AL	D		<	0.1		0.1	-
	0644	05/20/87	0001	AL	D		<	0.01	c	0.01	-
	0644	09/23/87	0001	AL	D		<	0.02	c	0.02	-
	0644	10/09/88	0001	AL	D		<	0.1		0.1	-
	0645	03/17/87	0001	AL	U		<	0.1		0.1	-
	0645	05/16/87	0001	AL	U		<	0.07	c	0.07	-
	0645	09/23/87	0001	AL	U		<	0.10		0.1	-
	0645	04/02/89	0001	AL	U		<	0.1		0.1	-
	0646	03/18/87	0001	AL	U		<	0.1		0.1	-
	0646	05/16/87	0001	AL	U		<	0.05	c	0.05	-
	0646	09/22/87	0001	AL	U		<	0.07	c	0.07	-
	0646	10/09/88	0001	AL	U		<	0.1		0.1	-
	0646	04/02/89	0001	AL	U		<	0.1		0.1	-
	0647	03/18/87	0001	AL	U		<	0.1		0.1	-
	0647	05/17/87	0001	AL	U		<	0.05	c	0.05	-
	0647	09/20/87	0001	AL	U		<	0.07	c	0.07	-
	0647	04/02/89	0001	AL	U		<	0.1		0.1	-
	0670	10/09/88	0001	AL	D		<	0.1		0.1	-
0670	04/21/89	0001	AL	D	<	0.1		0.1	-		
0671	10/09/88	0001	AL	D	<	0.1		0.1	-		
0671	04/21/89	0001	AL	D	<	0.1		0.1	-		
0672	10/09/88	0001	AL	D	<	0.1		0.1	-		
0672	04/22/89	0001	AL	D	<	0.1		0.1	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BERYLLIUM	0603	04/06/89	0001	AL	D	MG/L	<	0.01		0.01	-
	0603	06/04/90	0001	AL	D		<	.01		0.01	-
	0608	04/03/89	0001	AL	D		<	0.01		0.01	-
	0608	06/01/90	0001	AL	D		<	.01		0.01	-
	0608	10/07/90	0001	AL	D		<	0.01	Ic	0.01	-
	0610	04/03/89	0001	AL	D		<	0.01		0.01	-
	0610	06/01/90	0001	AL	D		<	.01		0.01	-
	0610	10/07/90	0001	AL	D		<	0.005		0.005	-
	0612	04/03/89	0001	AL	D		<	0.01		0.01	-
	0614	04/03/89	0001	AL	D		<	0.01		0.01	-
	0614	06/01/90	0001	AL	D		<	.01		0.01	-
	0614	10/07/90	0001	AL	D		<	0.005		0.005	-
	0615	04/03/89	0001	AL	D		<	0.01		0.01	-
	0615	06/01/90	0001	AL	D		<	.01		0.01	-
	0615	10/09/90	0001	AL	D		<	0.01	Ic	0.01	-
	0616	04/04/89	0001	AL	D		<	0.01		0.01	-
	0616	06/01/90	0001	AL	D		<	.01		0.01	-
	0616	10/09/90	0001	AL	D		<	0.005		0.005	-
	0617	04/04/89	0001	AL	D		<	0.01		0.01	-
	0617	06/01/90	0001	AL	D		<	.01		0.01	-
	0617	10/09/90	0001	AL	D		<	0.005		0.005	-
	0619	04/05/89	0001	AL	D		<	0.01		0.01	-
	0619	06/01/90	0001	AL	D		<	.01		0.01	-
	0619	10/09/90	0001	AL	D		<	0.005		0.005	-
	0620	04/05/89	0001	AL	D		<	0.01		0.01	-
	0620	06/01/90	0001	AL	D		<	.01		0.01	-
	0624	04/04/89	0001	AL	D		<	0.01		0.01	-
	0624	10/09/90	0001	AL	D		<	0.005		0.005	-
	0626	04/05/89	0001	AL	D		<	0.01		0.01	-
	0626	06/04/90	0001	AL	D		<	.01		0.01	-
	0626	10/11/90	0001	AL	D		<	0.005		0.005	-
	0628	04/05/89	0001	AL	D		<	0.01		0.01	-
	0628	06/04/90	0001	AL	D		<	.01		0.01	-
0628	10/11/90	0001	AL	D		<	0.005		0.005	-	
0630	06/04/90	0001	AL	D		<	.01		0.01	-	
0630	10/10/90	0001	AL	D		<	0.005		0.005	-	
0638	04/20/89	0001	AL	D		<	0.01		0.01	-	
0639	04/20/89	0001	AL	D		<	0.01		0.01	-	
0645	04/02/89	0001	AL	U		<	0.01		0.01	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY	
BERYLLIUM	0646	04/02/89	0001	AL	U	MG/L	<	0.01		0.01	-	
	0647	04/02/89	0001	AL	U		<	0.01		0.01	-	
	0670	04/21/89	0001	AL	D		<	0.01		0.01	-	
	0671	04/21/89	0001	AL	D		<	0.01		0.01	-	
	0672	04/22/89	0001	AL	D		<	0.01		0.01	-	
BORON	0601	09/19/86	0001	AL	U	MG/L	<	0.1		0.1	-	
	0602	09/18/87	0001	AL	D				0.48		0.1	-
	0603	09/03/87	0001	AL	D				1.12		0.1	-
	0603	04/06/89	0001	AL	D				0.6		0.1	-
	0603	06/04/90	0001	AL	D		<		.1		0.1	-
	0604	09/03/87	0001	AL	D				0.47		0.1	-
	0607	09/19/86	0001	AL	D				0.6		0.1	-
	0607	09/01/87	0001	AL	D				1.13		0.1	-
	0608	09/18/86	0001	AL	D				0.3		0.1	-
	0608	09/22/87	0001	AL	D				0.71		0.1	-
	0608	04/03/89	0001	AL	D				0.4		0.1	-
	0608	06/01/90	0001	AL	D				.5		0.1	-
	0608	10/07/90	0001	AL	D				0.62		0.05	-
	0609	09/17/86	0001	AL	D				0.3		0.1	-
	0609	09/21/87	0001	AL	D				0.75		0.1	-
	0610	09/18/86	0001	AL	D				0.5		0.1	-
	0610	09/21/87	0001	AL	D				0.75		0.1	-
	0610	04/03/89	0001	AL	D				0.4		0.1	-
	0610	06/01/90	0001	AL	D				.5		0.1	-
	0610	10/07/90	0001	AL	D				0.62		0.05	-
	0611	09/19/87	0001	AL	D				0.81		0.1	-
	0612	09/17/86	0001	AL	D				0.3		0.1	-
	0612	09/19/87	0001	AL	D				0.19		0.1	-
	0612	04/03/89	0001	AL	D		<		0.1		0.1	-
	0613	09/18/86	0001	AL	D				0.3		0.1	-
	0613	09/18/87	0001	AL	D				0.65		0.1	-
	0614	09/18/87	0001	AL	D				0.69		0.1	-
	0614	04/03/89	0001	AL	D				0.3		0.1	-
	0614	06/01/90	0001	AL	D				.4		0.1	-
	0614	10/07/90	0001	AL	D				0.46		0.05	-
0615	09/18/87	0001	AL	D			0.92		0.1	-		
0615	04/03/89	0001	AL	D			0.6		0.1	-		
0615	06/01/90	0001	AL	D			.6		0.1	-		
0615	10/09/90	0001	AL	D			0.9		0.05	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 U - UPGRADIENT
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BORON	0616	09/15/86	0001	AL	D	MG/L	0.3		0.1	-
	0616	09/18/87	0001	AL	D		0.32		0.1	-
	0616	04/04/89	0001	AL	D		0.3		0.1	-
	0616	06/01/90	0001	AL	D		.3		0.1	-
	0616	10/09/90	0001	AL	D		0.37		0.05	-
	0617	09/18/87	0001	AL	D		0.63		0.1	-
	0617	04/04/89	0001	AL	D		0.36		0.1	-
	0617	06/01/90	0001	AL	D		.4		0.1	-
	0617	10/09/90	0001	AL	D		0.34		0.05	-
	0618	09/18/87	0001	AL	D		0.65		0.1	-
	0619	09/19/87	0001	AL	D		1.49		0.1	-
	0619	04/05/89	0001	AL	D		0.9		0.1	-
	0619	06/01/90	0001	AL	D		1.0		0.1	-
	0619	10/09/90	0001	AL	D		0.59		0.05	-
	0620	09/16/86	0001	AL	D		0.6		0.1	-
	0620	08/30/87	0001	AL	D		1.09		0.1	-
	0620	04/05/89	0001	AL	D		0.8		0.1	-
	0620	06/01/90	0001	AL	D		.7		0.1	-
	0621	09/15/86	0001	AL	D		0.3		0.1	-
	0621	09/01/87	0001	AL	D		1.08		0.1	-
	0622	09/16/86	0001	AL	D		0.3		0.1	-
	0622	09/01/87	0001	AL	D		1.21		0.1	-
	0623	09/01/87	0001	AL	D		1.12		0.1	-
	0624	09/18/86	0001	AL	D		0.3		0.1	-
	0624	09/01/87	0001	AL	D		1.05		0.1	-
	0624	04/04/89	0001	AL	D		0.9		0.1	-
	0624	10/09/90	0001	AL	D		0.70		0.05	-
	0625	09/03/87	0001	AL	D		1.10		0.1	-
	0626	09/01/87	0001	AL	D		0.79		0.1	-
	0626	04/05/89	0001	AL	D		0.4		0.1	-
	0626	06/04/90	0001	AL	D		.4		0.1	-
	0626	10/11/90	0001	AL	D		0.36		0.05	-
	0627	09/14/86	0001	AL	D		0.3		0.1	-
	0627	09/16/87	0001	AL	D		0.49		0.1	-
	0628	09/16/87	0001	AL	D		0.51		0.1	-
	0628	04/05/89	0001	AL	D		0.2		0.1	-
	0628	06/04/90	0001	AL	D		.3		0.1	-
	0628	10/11/90	0001	AL	D		0.30		0.05	-
	0629	08/30/87	0001	AL	D		0.34		0.1	-
	0629	04/18/89	0001	AL	D		0.2		0.1	-
0630	09/15/86	0001	AL	D		0.3		0.1	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BORON	0630	08/30/87	0001	AL	D	MG/L	0.36		0.1	-
	0630	06/04/90	0001	AL	D		.2		0.1	-
	0630	10/10/90	0001	AL	D		0.24		0.05	-
	0631	09/20/86	0001	AL	D		0.4		0.1	-
	0631	08/30/87	0001	AL	D		0.59		0.1	-
	0632	09/20/86	0001	AL	D		0.7		0.1	-
	0632	09/01/87	0001	AL	D		0.59		0.1	-
	0632	11/12/87	0001	AL	D		0.52		0.1	-
	0633	04/19/89	0001	AL	D		0.2		0.1	-
	0638	03/19/87	0001	AL	D		0.21		0.1	-
	0638	05/14/87	0001	AL	D		0.14		0.1	-
	0638	09/25/87	0001	AL	D		0.11		0.1	-
	0638	04/20/89	0001	AL	D		0.1	<	0.1	-
	0639	03/19/87	0001	AL	D		0.66		0.1	-
	0639	05/14/87	0001	AL	D		0.35		0.1	-
	0639	09/25/87	0001	AL	D		0.59		0.1	-
	0639	04/20/89	0001	AL	D		0.5		0.1	-
	0640	03/19/87	0001	AL	D		0.96		0.1	-
	0640	09/24/87	0001	AL	D		0.74		0.1	-
	0640	04/19/89	0001	AL	D		0.4		0.1	-
	0641	03/18/87	0001	AL	D		0.52		0.1	-
	0641	05/14/87	0001	AL	D		0.96		0.1	-
	0641	09/24/87	0001	AL	D		1.20		0.1	-
	0641	04/18/89	0001	AL	D		0.7		0.1	-
	0642	03/19/87	0001	AL	D		0.19		0.1	-
	0642	05/20/87	0001	AL	D		0.19		0.1	-
	0642	09/23/87	0001	AL	D		0.64		0.1	-
	0642	04/18/89	0001	AL	D		0.5		0.1	-
	0643	03/19/87	0001	AL	D		0.32		0.1	-
	0643	09/24/87	0001	AL	D		0.76		0.1	-
	0643	04/18/89	0001	AL	D		0.5		0.1	-
	0644	03/18/87	0001	AL	D		0.13		0.1	-
	0644	05/20/87	0001	AL	D		0.56		0.1	-
	0644	09/23/87	0001	AL	D		0.73		0.1	-
0645	03/17/87	0001	AL	U	0.11		0.1	-		
0645	05/16/87	0001	AL	U	0.04	c	0.04	-		
0645	09/23/87	0001	AL	U	0.06	c	0.06	-		
0645	04/02/89	0001	AL	U	0.1	<	0.1	-		
0646	03/18/87	0001	AL	U	0.05	c	0.05	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI	VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY	
BORON	0646	05/16/87	0001	AL	U	MG/L		0.07	c	0.07	-	
	0646	09/22/87	0001	AL	U			0.09	c	0.09	-	
	0646	04/02/89	0001	AL	U		<	0.1		0.1	-	
	0647	03/18/87	0001	AL	U			0.28		0.1	-	
	0647	05/17/87	0001	AL	U			0.05	c	0.05	-	
	0647	09/20/87	0001	AL	U			0.05	c	0.05	-	
	0647	04/02/89	0001	AL	U		<	0.1		0.1	-	
	0670	04/21/89	0001	AL	D			0.2		0.1	-	
	0671	04/21/89	0001	AL	D			0.3		0.1	-	
	0672	10/09/88	0001	AL	D		<	0.01		0.1	-	
	0672	04/22/89	0001	AL	D			0.1		0.1	-	
	BROMIDE	0602	09/18/87	0001	AL	D	MG/L		0.1		0.01	-
		0603	09/03/87	0001	AL	D			0.6		0.01	-
0603		04/06/89	0001	AL	D			0.3		0.1	-	
0604		09/03/87	0001	AL	D		<	0.1	c	0.1	-	
0607		09/01/87	0001	AL	D			0.5		0.01	-	
0608		09/22/87	0001	AL	D			0.1		0.01	-	
0608		04/03/89	0001	AL	D		<	0.1		0.1	-	
0609		09/21/87	0001	AL	D			0.1		0.01	-	
0610		09/21/87	0001	AL	D		<	0.1	c	0.1	-	
0610		04/03/89	0001	AL	D		<	0.1		0.1	-	
0611		09/19/87	0001	AL	D			0.1		0.01	-	
0612		09/19/87	0001	AL	D		<	0.1	c	0.1	-	
0612		04/03/89	0001	AL	D		<	0.1		0.1	-	
0613		09/18/87	0001	AL	D			0.2		0.01	-	
0614		09/18/87	0001	AL	D		<	0.1	c	0.1	-	
0614		04/03/89	0001	AL	D		<	0.1		0.1	-	
0615		09/18/87	0001	AL	D			0.1		0.01	-	
0615		04/03/89	0001	AL	D		<	0.1		0.1	-	
0616		09/18/87	0001	AL	D		<	0.1	c	0.1	-	
0616		04/04/89	0001	AL	D			0.1		0.1	-	
0617	09/18/87	0001	AL	D		<	0.1	c	0.1	-		
0617	04/04/89	0001	AL	D		<	0.1		0.1	-		
0618	09/18/87	0001	AL	D		<	0.1	c	0.1	-		
0619	09/19/87	0001	AL	D			0.1		0.01	-		
0619	04/05/89	0001	AL	D			0.1		0.1	-		
0620	08/30/87	0001	AL	D		<	0.1	c	0.1	-		
0620	04/05/89	0001	AL	D			0.1		0.1	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 U - UPGRADIENT
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER		DETECTION LIMIT	PARAMETER UNCERTAINTY
							PVI	VALUE		
BROMIDE	0621	09/01/87	0001	AL	D	MG/L		0.2	0.1	-
	0622	09/01/87	0001	AL	D			0.3	0.1	-
	0623	09/01/87	0001	AL	D			0.2	0.01	-
	0624	09/01/87	0001	AL	D		<	0.1	0.1	-
	0624	04/04/89	0001	AL	D			0.2	0.1	-
	0625	09/03/87	0001	AL	D		<	0.1	0.1	-
	0626	09/01/87	0001	AL	D			0.1	0.1	-
	0626	04/05/89	0001	AL	D		<	0.1	0.1	-
	0627	09/16/87	0001	AL	D		<	0.1	0.1	-
	0628	09/16/87	0001	AL	D		<	0.1	0.1	-
	0628	04/05/89	0001	AL	D		<	0.1	0.1	-
	0629	08/30/87	0001	AL	D		<	0.1	0.1	-
	0629	04/18/89	0001	AL	D		<	0.1	0.1	-
	0630	08/30/87	0001	AL	D		<	0.1	0.1	-
	0631	08/30/87	0001	AL	D			0.3	0.01	-
	0632	09/01/87	0001	AL	D			0.5	0.01	-
	0632	11/12/87	0001	AL	D			0.03	0.01	-
	0633	04/19/89	0001	AL	D		<	0.1	0.1	-
	0638	09/25/87	0001	AL	D		<	0.1	0.1	-
	0638	04/20/89	0001	AL	D		<	0.1	0.1	-
	0639	09/25/87	0001	AL	D		<	0.1	0.1	-
	0639	04/20/89	0001	AL	D			1.7	0.1	-
	0640	09/24/87	0001	AL	D		<	0.1	0.1	-
	0640	04/19/89	0001	AL	D			0.1	0.1	-
	0641	09/24/87	0001	AL	D		<	0.1	0.1	-
	0641	04/18/89	0001	AL	D		<	0.1	0.1	-
	0642	09/23/87	0001	AL	D			0.2	0.01	-
	0642	04/18/89	0001	AL	D		<	0.1	0.1	-
	0643	09/24/87	0001	AL	D		<	0.1	0.1	-
	0643	04/18/89	0001	AL	D			0.2	0.1	-
0644	09/23/87	0001	AL	D		<	0.1	0.1	-	
0645	09/23/87	0001	AL	U		<	0.1	0.1	-	
0645	04/02/89	0001	AL	U		<	0.1	0.1	-	
0646	09/22/87	0001	AL	U		<	0.1	0.1	-	
0646	04/02/89	0001	AL	U			0.4	0.1	-	
0647	09/20/87	0001	AL	U		<	0.1	0.1	-	
0647	04/02/89	0001	AL	U			0.4	0.1	-	
0670	04/21/89	0001	AL	D		<	0.1	0.1	-	
0671	04/21/89	0001	AL	D		<	0.1	0.1	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY	
BROMIDE	0672	04/22/89	0001	AL	D	MG/L	<	0.1		0.1	-	
CADMIUM	0601	09/19/86	0001	AL	U	MG/L	<	0.001		0.001	-	
	0602	09/18/87	0001	AL	D		<	0.005	c	0.005	-	
	0603	09/03/87	0001	AL	D		<	0.005	c	0.005	-	
	0603	04/06/89	0001	AL	D					0.020	0.001	-
	0603	06/04/90	0001	AL	D					.057	0.001	-
	0604	09/03/87	0001	AL	D		<	0.005	c	0.005	0.005	-
	0607	09/19/86	0001	AL	D		<	0.001		0.001	0.001	-
	0607	09/01/87	0001	AL	D		<	0.005	c	0.005	0.005	-
	0608	09/18/86	0001	AL	D		<	0.001		0.001	0.001	-
	0608	09/22/87	0001	AL	D		<	0.005	c	0.005	0.005	-
	0608	04/03/89	0001	AL	D					0.018	0.001	-
	0608	06/01/90	0001	AL	D		<	.001		0.001	0.001	-
	0608	10/07/90	0001	AL	D					0.001	0.001	-
	0609	09/17/86	0001	AL	D		<	0.001		0.001	0.001	-
	0609	09/21/87	0001	AL	D		<	0.005	c	0.005	0.005	-
	0610	09/18/86	0001	AL	D		<	0.001		0.001	0.001	-
	0610	09/21/87	0001	AL	D		<	0.005	c	0.005	0.005	-
	0610	04/03/89	0001	AL	D					0.007	0.001	-
	0610	06/01/90	0001	AL	D		<	.001		0.001	0.001	-
	0610	10/07/90	0001	AL	D		<	0.001		0.001	0.001	-
	0611	09/19/87	0001	AL	D		<	0.005	c	0.005	0.005	-
	0612	09/17/86	0001	AL	D		<	0.001		0.001	0.001	-
	0612	09/19/87	0001	AL	D		<	0.005	c	0.005	0.005	-
	0612	04/03/89	0001	AL	D		<	0.001		0.001	0.001	-
	0613	09/18/86	0001	AL	D		<	0.001		0.001	0.001	-
	0613	09/18/87	0001	AL	D		<	0.005	c	0.005	0.005	-
	0614	09/18/87	0001	AL	D		<	0.005	c	0.005	0.005	-
	0614	10/11/88	0001	AL	D					0.002	0.001	-
	0614	04/03/89	0001	AL	D					0.008	0.001	-
	0614	06/01/90	0001	AL	D		<	.001		0.001	0.001	-
0614	10/07/90	0001	AL	D	<	0.001		0.001	0.001	-		
0615	09/18/87	0001	AL	D	<	0.005	c	0.005	0.005	-		
0615	04/03/89	0001	AL	D				0.013	0.001	-		
0615	06/01/90	0001	AL	D	<	.001		0.001	0.001	-		
0615	10/09/90	0001	AL	D				0.001	0.001	-		
0616	09/15/86	0001	AL	D	<	0.001		0.001	0.001	-		
0616	09/18/87	0001	AL	D	<	0.005	c	0.005	0.005	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CADMIUM	0616	04/04/89	0001	AL	D	MG/L	0.004		0.001	-
	0616	06/01/90	0001	AL	D		< .001		0.001	-
	0616	10/09/90	0001	AL	D		< 0.001		0.001	-
	0617	09/18/87	0001	AL	D		< 0.005	c	0.005	-
	0617	04/04/89	0001	AL	D		0.005		0.001	-
	0617	06/01/90	0001	AL	D		< .001		0.001	-
	0617	10/09/90	0001	AL	D		< 0.001		0.001	-
	0618	09/18/87	0001	AL	D		< 0.005	c	0.005	-
	0618	10/11/88	0001	AL	D		0.001		0.001	-
	0619	09/19/87	0001	AL	D		< 0.005	c	0.005	-
	0619	04/05/89	0001	AL	D		0.020		0.001	-
	0619	06/01/90	0001	AL	D		< .001		0.001	-
	0619	10/09/90	0001	AL	D		< 0.001		0.001	-
	0620	09/16/86	0001	AL	D		< 0.001		0.001	-
	0620	08/30/87	0001	AL	D		< 0.005	c	0.005	-
	0620	04/05/89	0001	AL	D		0.015		0.001	-
	0620	06/01/90	0001	AL	D		< .001		0.001	-
	0621	09/15/86	0001	AL	D		< 0.001		0.001	-
	0621	09/01/87	0001	AL	D		< 0.005	c	0.005	-
	0622	09/16/86	0001	AL	D		< 0.001		0.001	-
	0622	09/01/87	0001	AL	D		< 0.005	c	0.005	-
	0623	09/01/87	0001	AL	D		< 0.005	c	0.005	-
	0624	09/18/86	0001	AL	D		< 0.001		0.001	-
	0624	09/01/87	0001	AL	D		< 0.005	c	0.005	-
	0624	04/04/89	0001	AL	D		0.013		0.001	-
	0624	10/09/90	0001	AL	D		< 0.001		0.001	-
	0625	09/03/87	0001	AL	D		< 0.005	c	0.005	-
	0626	09/01/87	0001	AL	D		< 0.005	c	0.005	-
	0626	04/05/89	0001	AL	D		0.003		0.001	-
	0626	06/04/90	0001	AL	D		< .001		0.001	-
0626	10/11/90	0001	AL	D		< 0.001		0.001	-	
0627	09/14/86	0001	AL	D		< 0.001		0.001	-	
0627	09/16/87	0001	AL	D		< 0.005	c	0.005	-	
0628	09/16/87	0001	AL	D		< 0.005	c	0.005	-	
0628	04/05/89	0001	AL	D		0.002		0.001	-	
0628	06/04/90	0001	AL	D		< .001		0.001	-	
0628	10/11/90	0001	AL	D		< 0.001		0.001	-	
0629	08/30/87	0001	AL	D		< 0.005	c	0.005	-	
0629	04/18/89	0001	AL	D		0.003		0.001	-	
0630	09/15/86	0001	AL	D		< 0.001		0.001	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER			DETECTION LIMIT	PARAMETER UNCERTAINTY
							PVI	VALUE	FLAGS		
CADMIUM	0630	08/30/87	0001	AL	D	MG/L	<	0.005	c	0.005	-
	0630	06/04/90	0001	AL	D		<	.001		0.001	-
	0630	10/10/90	0001	AL	D		<	0.001		0.001	-
	0631	09/20/86	0001	AL	D		<	0.001		0.001	-
	0631	08/30/87	0001	AL	D		<	0.005	c	0.005	-
	0632	09/20/86	0001	AL	D		<	0.001		0.001	-
	0632	09/01/87	0001	AL	D		<	0.005	c	0.005	-
	0632	11/12/87	0001	AL	D		<	0.005	c	0.005	-
	0633	04/19/89	0001	AL	D			0.002		0.001	-
	0638	03/19/87	0001	AL	D		<	0.001		0.001	-
	0638	05/14/87	0001	AL	D			0.010		0.001	-
	0638	09/25/87	0001	AL	D		<	0.005	c	0.005	-
	0638	10/09/88	0001	AL	D		<	0.001		0.001	-
	0638	04/20/89	0001	AL	D			0.002		0.001	-
	0639	03/19/87	0001	AL	D		<	0.001		0.001	-
	0639	05/14/87	0001	AL	D			0.025		0.001	-
	0639	09/25/87	0001	AL	D		<	0.005	c	0.005	-
	0639	10/09/88	0001	AL	D		<	0.001		0.001	-
	0639	04/20/89	0001	AL	D			0.003		0.001	-
	0640	03/19/87	0001	AL	D			0.002		0.001	-
	0640	09/24/87	0001	AL	D		<	0.005	c	0.005	-
	0640	04/19/89	0001	AL	D			0.007		0.001	-
	0641	03/18/87	0001	AL	D		<	0.001		0.001	-
	0641	05/14/87	0001	AL	D			0.077		0.001	-
	0641	09/24/87	0001	AL	D		<	0.005	c	0.005	-
	0641	10/09/88	0001	AL	D			0.007		0.001	-
	0641	04/18/89	0001	AL	D			0.010		0.001	-
	0642	03/19/87	0001	AL	D			0.001		0.001	-
	0642	05/20/87	0001	AL	D			0.053		0.001	-
	0642	09/23/87	0001	AL	D		<	0.005	c	0.005	-
	0642	04/18/89	0001	AL	D			0.002		0.001	-
	0643	03/19/87	0001	AL	D		<	0.001		0.001	-
0643	09/24/87	0001	AL	D		<	0.005	c	0.005	-	
0643	04/18/89	0001	AL	D			0.002		0.001	-	
0644	03/18/87	0001	AL	D		<	0.001		0.001	-	
0644	05/20/87	0001	AL	D			0.117		0.001	-	
0644	09/23/87	0001	AL	D		<	0.005	c	0.005	-	
0644	10/09/88	0001	AL	D			0.003		0.001	-	
0645	03/17/87	0001	AL	U		<	0.001		0.001	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CADMIUM	0645	05/16/87	0001	AL	U	MG/L		0.004		0.001	-
	0645	09/23/87	0001	AL	U		<	0.005	c	0.005	-
	0645	04/02/89	0001	AL	U			0.002		0.001	-
	0646	03/18/87	0001	AL	U		<	0.001		0.001	-
	0646	05/16/87	0001	AL	U			0.012		0.001	-
	0646	09/22/87	0001	AL	U		<	0.005	c	0.005	-
	0646	10/09/88	0001	AL	U		<	0.001		0.001	-
	0646	04/02/89	0001	AL	U			0.001		0.001	-
	0647	03/18/87	0001	AL	U		<	0.001		0.001	-
	0647	05/17/87	0001	AL	U			0.009		0.001	-
	0647	09/20/87	0001	AL	U		<	0.005	c	0.005	-
	0647	04/02/89	0001	AL	U			0.002		0.001	-
	0670	10/09/88	0001	AL	D		<	0.001		0.001	-
	0670	04/21/89	0001	AL	D			0.009		0.001	-
	0671	10/09/88	0001	AL	D		<	0.001		0.001	-
	0671	04/21/89	0001	AL	D			0.007		0.001	-
	0672	10/09/88	0001	AL	D		<	0.001		0.001	-
0672	04/22/89	0001	AL	D			0.002		0.001	-	
CALCIUM	0601	09/19/86	0001	AL	U	MG/L		49.2		0.01	-
	0602	09/18/87	0001	AL	D			520.		0.01	-
	0603	09/03/87	0001	AL	D			519.		0.01	-
	0603	04/06/89	0001	AL	D			369.		0.01	-
	0603	06/04/90	0001	AL	D			367.		0.01	-
	0604	09/03/87	0001	AL	D			390.		0.01	-
	0607	09/19/86	0001	AL	D			550.0		0.01	-
	0607	09/01/87	0001	AL	D			510.		0.01	-
	0608	09/18/86	0001	AL	D			457.0		0.01	-
	0608	09/22/87	0001	AL	D			510.		0.01	-
	0608	04/03/89	0001	AL	D			449.		0.01	-
	0608	06/01/90	0001	AL	D			482.		0.01	-
	0608	10/07/90	0001	AL	D			460.		0.01	-
	0609	09/17/86	0001	AL	D			427.0		0.01	-
	0609	09/21/87	0001	AL	D			504.		0.01	-
	0610	09/18/86	0001	AL	D			563.0		0.01	-
	0610	09/21/87	0001	AL	D			507.		0.01	-
0610	04/03/89	0001	AL	D			461.		0.01	-	
0610	06/01/90	0001	AL	D			505.		0.01	-	
0610	10/07/90	0001	AL	D			467.		0.01	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 U - UPGRADIENT
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CALCIUM	0611	09/19/87	0001	AL	D	MG/L	464.		0.01	-
	0612	09/17/86	0001	AL	D		192.0		0.01	-
	0612	09/19/87	0001	AL	D		208.		0.01	-
	0612	04/03/89	0001	AL	D		194.		0.01	-
	0613	09/18/86	0001	AL	D		517.0		0.01	-
	0613	09/18/87	0001	AL	D		516.		0.01	-
	0614	09/18/87	0001	AL	D		478.		0.01	-
	0614	10/11/88	0001	AL	D		407.		0.01	-
	0614	04/03/89	0001	AL	D		428.		0.01	-
	0614	06/01/90	0001	AL	D		520.		0.01	-
	0614	10/07/90	0001	AL	D		581.		0.01	-
	0615	09/18/87	0001	AL	D		510.		0.01	-
	0615	04/03/89	0001	AL	D		390.		0.01	-
	0615	06/01/90	0001	AL	D		495.		0.01	-
	0615	10/09/90	0001	AL	D		435.		0.01	-
	0616	09/15/86	0001	AL	D		310.0		0.01	-
	0616	09/18/87	0001	AL	D		514.		0.01	-
	0616	04/04/89	0001	AL	D		445.		0.01	-
	0616	06/01/90	0001	AL	D		522.		0.01	-
	0616	10/09/90	0001	AL	D		502.		0.01	-
	0617	09/18/87	0001	AL	D		462.		0.01	-
	0617	04/04/89	0001	AL	D		428.		0.01	-
	0617	06/01/90	0001	AL	D		458.		0.01	-
	0617	10/09/90	0001	AL	D		530.		0.01	-
	0618	09/18/87	0001	AL	D		474.		0.01	-
	0618	10/11/88	0001	AL	D		446.		0.01	-
	0619	09/19/87	0001	AL	D		490.		0.01	-
	0619	04/05/89	0001	AL	D		429.		0.01	-
	0619	06/01/90	0001	AL	D		416.		0.01	-
	0619	10/09/90	0001	AL	D		461.		0.01	-
	0620	09/16/86	0001	AL	D		580.		0.01	-
	0620	08/30/87	0001	AL	D		519.		0.01	-
	0620	04/05/89	0001	AL	D		374.		0.01	-
0620	06/01/90	0001	AL	D		376.		0.01	-	
0621	09/15/86	0001	AL	D		562.		0.01	-	
0621	09/01/87	0001	AL	D		547.		0.01	-	
0622	09/16/86	0001	AL	D		540.		0.01	-	
0622	09/01/87	0001	AL	D		591.		0.01	-	
0623	09/01/87	0001	AL	D		535.		0.01	-	
0624	09/18/86	0001	AL	D		550.		0.01	-	
0624	09/01/87	0001	AL	D		556.		0.01	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CALCIUM	0624	04/04/89	0001	AL	D	MG/L	382.		0.01	-
	0624	10/09/90	0001	AL	D		403.		0.01	-
	0625	09/03/87	0001	AL	D		543.		0.01	-
	0626	09/01/87	0001	AL	D		428.		0.01	-
	0626	04/05/89	0001	AL	D		326.		0.01	-
	0626	06/04/90	0001	AL	D		279.		0.01	-
	0626	10/11/90	0001	AL	D		274.		0.01	-
	0627	09/14/86	0001	AL	D		549.0		0.01	-
	0627	09/16/87	0001	AL	D		410.		0.01	-
	0628	09/16/87	0001	AL	D		418.		0.01	-
	0628	04/05/89	0001	AL	D		400.		0.01	-
	0628	06/04/90	0001	AL	D		475.		0.01	-
	0628	10/11/90	0001	AL	D		444.		0.01	-
	0629	08/30/87	0001	AL	D		395.		0.01	-
	0629	04/18/89	0001	AL	D		431.		0.01	-
	0630	09/15/86	0001	AL	D		417.0		0.01	-
	0630	08/30/87	0001	AL	D		416.		0.01	-
	0630	06/04/90	0001	AL	D		392.		0.01	-
	0630	10/10/90	0001	AL	D		400.		0.01	-
	0631	09/20/86	0001	AL	D		550.0		0.01	-
	0631	08/30/87	0001	AL	D		559.		0.01	-
	0632	09/20/86	0001	AL	D		550.0		0.01	-
	0632	09/01/87	0001	AL	D		489.		0.01	-
	0632	11/12/87	0001	AL	D		530.		0.01	-
	0633	04/19/89	0001	AL	D		156.		0.01	-
	0638	03/19/87	0001	AL	D		321.		0.01	-
	0638	05/14/87	0001	AL	D		125.		0.01	-
	0638	09/25/87	0001	AL	D		54.3		0.01	-
	0638	10/09/88	0001	AL	D		82.2		0.01	-
	0638	04/20/89	0001	AL	D		113.		0.01	-
	0639	03/19/87	0001	AL	D		483.		0.01	-
	0639	05/14/87	0001	AL	D		309.		0.01	-
	0639	09/25/87	0001	AL	D		426.		0.01	-
	0639	10/09/88	0001	AL	D		502.		0.01	-
	0639	04/20/89	0001	AL	D		502.		0.01	-
	0640	03/19/87	0001	AL	D		461.		0.01	-
	0640	09/24/87	0001	AL	D		399.		0.01	-
	0640	04/19/89	0001	AL	D		382.		0.01	-
	0641	03/18/87	0001	AL	D		535.		0.01	-
	0641	05/14/87	0001	AL	D		438.		0.01	-
0641	09/24/87	0001	AL	D	439.		0.01	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CALCIUM	0641	10/09/88	0001	AL	D	MG/L	404.		0.01	-
	0641	04/18/89	0001	AL	D		438.		0.01	-
	0642	03/19/87	0001	AL	D		620.		0.01	-
	0642	05/20/87	0001	AL	D		444.		0.01	-
	0642	09/23/87	0001	AL	D		494.		0.01	-
	0642	04/18/89	0001	AL	D		459.		0.01	-
	0643	03/19/87	0001	AL	D		549.		0.01	-
	0643	09/24/87	0001	AL	D		470.		0.01	-
	0643	04/18/89	0001	AL	D		373.		0.01	-
	0644	03/18/87	0001	AL	D		517.		0.01	-
	0644	05/20/87	0001	AL	D		441.		0.01	-
	0644	09/23/87	0001	AL	D		507.		0.01	-
	0644	10/09/88	0001	AL	D		378.		0.01	-
	0645	03/17/87	0001	AL	U		112.		0.01	-
	0645	05/16/87	0001	AL	U		99.6		0.01	-
	0645	09/23/87	0001	AL	U		82.5		0.01	-
	0645	04/02/89	0001	AL	U		272.		0.01	-
	0646	03/18/87	0001	AL	U		165.		0.01	-
	0646	05/16/87	0001	AL	U		131.		0.01	-
	0646	09/22/87	0001	AL	U		93.5		0.01	-
	0646	10/09/88	0001	AL	U		225.		0.01	-
	0646	04/02/89	0001	AL	U		84.2		0.01	-
	0647	03/18/87	0001	AL	U		316.		0.01	-
	0647	05/17/87	0001	AL	U		64.9		0.01	-
	0647	09/20/87	0001	AL	U		47.0		0.01	-
	0647	04/02/89	0001	AL	U		240.		0.01	-
	0670	01/20/88	0001	AL	D		358.		0.01	-
	0670	03/31/88	0001	AL	D		313.		0.01	-
	0670	05/17/88	0001	AL	D		276.		0.01	-
	0670	10/09/88	0001	AL	D		210.		0.01	-
	0670	04/21/89	0001	AL	D		300.		0.01	-
	0671	01/20/88	0001	AL	D		534.		0.01	-
	0671	03/31/88	0001	AL	D		327.		0.01	-
	0671	05/17/88	0001	AL	D		281.		0.01	-
0671	10/09/88	0001	AL	D	174.		0.01	-		
0671	04/21/89	0001	AL	D	360.		0.01	-		
0672	01/20/88	0001	AL	D	432.		0.01	-		
0672	03/31/88	0001	AL	D	174.		0.01	-		
0672	05/17/88	0001	AL	D	215.		0.01	-		
0672	10/09/88	0001	AL	D	138.		0.01	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CALCIUM	0672	04/22/89	0001	AL	D	MG/L	183.		0.01	-
CHLORIDE	0601	09/19/86	0001	AL	U	MG/L	3.0		1.0	-
	0602	09/18/87	0001	AL	D		44.		1.0	-
	0603	09/03/87	0001	AL	D		1060.		1.0	-
	0603	04/06/89	0001	AL	D		880.		1.0	-
	0603	06/04/90	0001	AL	D		731.		1.0	-
	0604	09/03/87	0001	AL	D		170.		1.0	-
	0607	09/19/86	0001	AL	D		490.0		1.0	-
	0607	09/01/87	0001	AL	D		800.		1.0	-
	0608	09/18/86	0001	AL	D		340.0		1.0	-
	0608	09/22/87	0001	AL	D		510.		1.0	-
	0608	04/03/89	0001	AL	D		490.		1.0	-
	0608	06/01/90	0001	AL	D		420.		1.0	-
	0608	10/07/90	0001	AL	D		398.		1.0	-
	0609	09/17/86	0001	AL	D		310.0		1.0	-
	0609	09/21/87	0001	AL	D		520.		1.0	-
	0610	09/18/86	0001	AL	D		260.		1.0	-
	0610	09/21/87	0001	AL	D		300.		1.0	-
	0610	04/03/89	0001	AL	D		340.		1.0	-
	0610	06/01/90	0001	AL	D		353.		1.0	-
	0610	10/07/90	0001	AL	D		291.		1.0	-
	0611	09/19/87	0001	AL	D		416.		1.0	-
	0612	09/17/86	0001	AL	D		24.		1.0	-
	0612	09/19/87	0001	AL	D		47.8		1.0	-
	0612	04/03/89	0001	AL	D		27.		1.0	-
	0613	09/18/86	0001	AL	D		280.0		1.0	-
	0613	09/18/87	0001	AL	D		230.		1.0	-
	0614	09/18/87	0001	AL	D		205.		1.0	-
	0614	10/11/88	0001	AL	D		240.		1.0	-
	0614	04/03/89	0001	AL	D		250.		1.0	-
	0614	06/01/90	0001	AL	D		260.		1.0	-
	0614	10/07/90	0001	AL	D		300.		1.0	-
	0615	09/18/87	0001	AL	D		385.		1.0	-
	0615	04/03/89	0001	AL	D		610.		1.0	-
	0615	06/01/90	0001	AL	D		634.		1.0	-
	0615	10/09/90	0001	AL	D		605.		1.0	-
	0616	09/15/86	0001	AL	D		32.		1.0	-
	0616	09/18/87	0001	AL	D		86.3		1.0	-
	0616	04/04/89	0001	AL	D		65.		1.0	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CHLORIDE	0616	06/01/90	0001	AL	D	MG/L	76.		1.0	-
	0616	10/09/90	0001	AL	D		62.		1.0	-
	0617	09/18/87	0001	AL	D		82.6		1.0	-
	0617	04/04/89	0001	AL	D		100.		1.0	-
	0617	06/01/90	0001	AL	D		131.		1.0	-
	0617	10/09/90	0001	AL	D		134.		1.	-
	0618	09/18/87	0001	AL	D		63.9		1.0	-
	0618	10/11/88	0001	AL	D		85.		1.0	-
	0619	09/19/87	0001	AL	D		552.		1.0	-
	0619	04/05/89	0001	AL	D		800.		1.0	-
	0619	06/01/90	0001	AL	D		763.		1.0	-
	0619	10/09/90	0001	AL	D		630.		1.	-
	0620	09/16/86	0001	AL	D		750.0		1.0	-
	0620	08/30/87	0001	AL	D		719.		1.0	-
	0620	04/05/89	0001	AL	D		640.		1.0	-
	0620	06/01/90	0001	AL	D		491.		1.0	-
	0621	09/15/86	0001	AL	D		710.0		1.0	-
	0621	09/01/87	0001	AL	D		732.		1.0	-
	0622	09/16/86	0001	AL	D		730.0		1.0	-
	0622	09/01/87	0001	AL	D		817.		1.0	-
	0623	09/01/87	0001	AL	D		634.		1.0	-
	0624	09/18/86	0001	AL	D		750.0		1.0	-
	0624	09/01/87	0001	AL	D		658.		1.0	-
	0624	04/04/89	0001	AL	D		730.		1.0	-
	0624	10/09/90	0001	AL	D		390.		1.0	-
	0625	09/03/87	0001	AL	D		646.		1.0	-
	0626	09/01/87	0001	AL	D		395.		1.0	-
	0626	04/05/89	0001	AL	D		220.		1.0	-
	0626	06/04/90	0001	AL	D		124.		1.0	-
	0626	10/11/90	0001	AL	D		119.		1.0	-
	0627	09/14/86	0001	AL	D		430.0		1.0	-
	0627	09/16/87	0001	AL	D		157.		1.0	-
	0628	09/16/87	0001	AL	D		193.		1.0	-
	0628	04/05/89	0001	AL	D		130.		1.0	-
	0628	06/04/90	0001	AL	D		110.		1.0	-
	0628	10/11/90	0001	AL	D		137.		1.0	-
	0629	08/30/87	0001	AL	D		72.		1.0	-
	0629	04/18/89	0001	AL	D		65.		1.0	-
	0630	09/15/86	0001	AL	D		69.0		1.0	-
	0630	08/30/87	0001	AL	D		73.		1.0	-
	0630	06/04/90	0001	AL	D		78.		1.0	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CHLORIDE	0630	10/10/90	0001	AL	D	MG/L	87.		1.	-
	0631	09/20/86	0001	AL	D		240.0		1.0	-
	0631	08/30/87	0001	AL	D		188.		1.0	-
	0632	09/20/86	0001	AL	D		200.0		1.0	-
	0632	09/01/87	0001	AL	D		179.		1.0	-
	0632	11/12/87	0001	AL	D		169.		1.0	-
	0633	04/19/89	0001	AL	D		67.		1.0	-
	0638	03/19/87	0001	AL	D		348.		1.0	-
	0638	05/14/87	0001	AL	D		222.		1.0	-
	0638	09/25/87	0001	AL	D		26.5		1.0	-
	0638	10/09/88	0001	AL	D		41.		1.0	-
	0638	04/20/89	0001	AL	D		90.		1.0	-
	0639	03/19/87	0001	AL	D		225.		1.0	-
	0639	05/14/87	0001	AL	D		82.9		1.0	-
	0639	09/25/87	0001	AL	D		168.		1.0	-
	0639	10/09/88	0001	AL	D		220.		1.0	-
	0639	04/20/89	0001	AL	D		160.		1.0	-
	0640	03/19/87	0001	AL	D		360.		1.0	-
	0640	09/24/87	0001	AL	D		315.		1.0	-
	0640	04/19/89	0001	AL	D		220.		1.0	-
	0641	03/18/87	0001	AL	D		719.		1.0	-
	0641	05/14/87	0001	AL	D		723.		1.0	-
	0641	09/24/87	0001	AL	D		825.		1.0	-
	0641	10/09/88	0001	AL	D		1280.		1.0	-
	0641	04/18/89	0001	AL	D		440.		1.0	-
	0642	03/19/87	0001	AL	D		483.		1.0	-
	0642	05/20/87	0001	AL	D		348.		1.0	-
	0642	09/23/87	0001	AL	D		830.		1.0	-
	0642	04/18/89	0001	AL	D		629.		1.0	-
	0643	03/19/87	0001	AL	D		3780.		1.0	-
	0643	09/24/87	0001	AL	D		2790.		1.0	-
	0643	04/18/89	0001	AL	D		1070.		1.0	-
	0644	03/18/87	0001	AL	D		1310.		1.0	-
0644	05/20/87	0001	AL	D		1210.		1.0	-	
0644	09/23/87	0001	AL	D		1180.		1.0	-	
0644	10/09/88	0001	AL	D		870.		1.0	-	
0645	03/17/87	0001	AL	U		27.4		1.0	-	
0645	05/16/87	0001	AL	U		12.5		1.0	-	
0645	09/23/87	0001	AL	U		5.3		1.0	-	
0645	04/02/89	0001	AL	U		79.		1.0	-	

B-39

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CHLORIDE	0646	03/18/87	0001	AL	U	MG/L	26.7		1.0	-
	0646	05/16/87	0001	AL	U		37.2		1.0	-
	0646	09/22/87	0001	AL	U		23.0		1.0	-
	0646	10/09/88	0001	AL	U		73.		1.0	-
	0646	04/02/89	0001	AL	U		26.		1.0	-
	0647	03/18/87	0001	AL	U		81.4		1.0	-
	0647	05/17/87	0001	AL	U		12.2		1.0	-
	0647	09/20/87	0001	AL	U		6.8		1.0	-
	0647	04/02/89	0001	AL	U		100.		1.0	-
	0670	01/20/88	0001	AL	D		62.2		1.0	-
	0670	03/31/88	0001	AL	D		39.		1.0	-
	0670	05/17/88	0001	AL	D		35.		1.0	-
	0670	10/09/88	0001	AL	D		35.		1.0	-
	0670	04/21/89	0001	AL	D		36.		1.0	-
	0671	01/20/88	0001	AL	D		469.		1.0	-
	0671	03/31/88	0001	AL	D		260.		1.0	-
	0671	05/17/88	0001	AL	D		92.		1.0	-
	0671	10/09/88	0001	AL	D		34.		1.0	-
	0671	04/21/89	0001	AL	D		51.		1.0	-
	0672	01/20/88	0001	AL	D		76.2		1.0	-
	0672	03/31/88	0001	AL	D		25.		1.0	-
	0672	05/17/88	0001	AL	D		30.		1.0	-
	0672	10/09/88	0001	AL	D		20.		1.0	-
0672	04/22/89	0001	AL	D		19.		1.0	-	
CHROMIUM	0601	09/19/86	0001	AL	U	MG/L	0.04		0.01	-
	0602	09/18/87	0001	AL	D		< 0.01		0.01	-
	0603	09/03/87	0001	AL	D		< 0.01		0.01	-
	0603	04/06/89	0001	AL	D		< 0.01		0.01	-
	0603	06/04/90	0001	AL	D		< .01		0.01	-
	0604	09/03/87	0001	AL	D		< 0.01		0.01	-
	0607	09/19/86	0001	AL	D		0.08		0.01	-
	0607	09/01/87	0001	AL	D		< 0.01		0.01	-
	0608	09/18/86	0001	AL	D		0.09		0.01	-
	0608	09/22/87	0001	AL	D		< 0.01		0.01	-
	0608	04/03/89	0001	AL	D		< 0.01		0.01	-
	0608	06/01/90	0001	AL	D		< .01		0.01	-
	0608	10/07/90	0001	AL	D		< 0.02	Ic	0.02	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 U - UPGRADIENT
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CHROMIUM	0609	09/17/86	0001	AL	D	MG/L		0.06		0.01	-
	0609	09/21/87	0001	AL	D		<	0.01		0.01	-
	0610	09/18/86	0001	AL	D			0.06		0.01	-
	0610	09/21/87	0001	AL	D		<	0.01		0.01	-
	0610	04/03/89	0001	AL	D		<	0.01		0.01	-
	0610	06/01/90	0001	AL	D		<	.01		0.01	-
	0610	10/07/90	0001	AL	D		<	0.01		0.01	-
	0611	09/19/87	0001	AL	D		<	0.01		0.01	-
	0612	09/17/86	0001	AL	D			0.04		0.01	-
	0612	09/19/87	0001	AL	D		<	0.01		0.01	-
	0612	04/03/89	0001	AL	D		<	0.01		0.01	-
	0613	09/18/86	0001	AL	D			0.05		0.01	-
	0613	09/18/87	0001	AL	D		<	0.01		0.01	-
	0614	09/18/87	0001	AL	D		<	0.01		0.01	-
	0614	10/11/88	0001	AL	D			0.20		0.01	-
	0614	04/03/89	0001	AL	D		<	0.01		0.01	-
	0614	06/01/90	0001	AL	D		<	.01		0.01	-
	0614	10/07/90	0001	AL	D		<	0.01		0.01	-
	0615	09/18/87	0001	AL	D		<	0.01		0.01	-
	0615	04/03/89	0001	AL	D		<	0.01		0.01	-
	0615	06/01/90	0001	AL	D		<	.01		0.01	-
	0615	10/09/90	0001	AL	D			0.32		0.01	-
	0616	09/15/86	0001	AL	D			0.01		0.01	-
	0616	09/18/87	0001	AL	D		<	0.01		0.01	-
	0616	04/04/89	0001	AL	D		<	0.01		0.01	-
	0616	06/01/90	0001	AL	D		<	.01		0.01	-
	0616	10/09/90	0001	AL	D		<	0.01		0.01	-
	0617	09/18/87	0001	AL	D		<	0.01		0.01	-
	0617	04/04/89	0001	AL	D		<	0.01		0.01	-
	0617	06/01/90	0001	AL	D		<	.01		0.01	-
	0617	10/09/90	0001	AL	D		<	0.01		0.01	-
	0618	09/18/87	0001	AL	D		<	0.01		0.01	-
	0618	10/11/88	0001	AL	D			0.15		0.01	-
0619	09/19/87	0001	AL	D	<	0.01		0.01	-		
0619	04/05/89	0001	AL	D	<	0.01		0.01	-		
0619	06/01/90	0001	AL	D	<	.01		0.01	-		
0619	10/09/90	0001	AL	D	<	0.01		0.01	-		
0620	09/16/86	0001	AL	D		0.11		0.01	-		
0620	08/30/87	0001	AL	D	<	0.01		0.01	-		
0620	04/05/89	0001	AL	D	<	0.01		0.01	-		
0620	06/01/90	0001	AL	D	<	.01		0.01	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CHROMIUM	0621	09/15/86	0001	AL	D	MG/L	0.11		0.01	-
	0621	09/01/87	0001	AL	D		< 0.01		0.01	-
	0622	09/16/86	0001	AL	D		0.09		0.01	-
	0622	09/01/87	0001	AL	D		< 0.01		0.01	-
	0623	09/01/87	0001	AL	D		< 0.01		0.01	-
	0624	09/18/86	0001	AL	D		0.10		0.01	-
	0624	09/01/87	0001	AL	D		< 0.01		0.01	-
	0624	04/04/89	0001	AL	D		< 0.01		0.01	-
	0624	10/09/90	0001	AL	D		< 0.01		0.01	-
	0625	09/03/87	0001	AL	D		< 0.01		0.01	-
	0626	09/01/87	0001	AL	D		< 0.01		0.01	-
	0626	04/05/89	0001	AL	D		< 0.01		0.01	-
	0626	06/04/90	0001	AL	D		< .01		0.01	-
	0626	10/11/90	0001	AL	D		< 0.01		0.01	-
	0627	09/14/86	0001	AL	D		0.04		0.01	-
	0627	09/16/87	0001	AL	D		< 0.01		0.01	-
	0628	09/16/87	0001	AL	D		< 0.01		0.01	-
	0628	04/05/89	0001	AL	D		< 0.01		0.01	-
	0628	06/04/90	0001	AL	D		< .01		0.01	-
	0628	10/11/90	0001	AL	D		< 0.01		0.01	-
	0629	08/30/87	0001	AL	D		< 0.01		0.01	-
	0629	04/18/89	0001	AL	D		< 0.01		0.01	-
	0630	09/15/86	0001	AL	D		0.01		0.01	-
	0630	08/30/87	0001	AL	D		< 0.01		0.01	-
	0630	06/04/90	0001	AL	D		< .01		0.01	-
	0630	10/10/90	0001	AL	D		< 0.01		0.01	-
	0631	09/20/86	0001	AL	D		0.05		0.01	-
	0631	08/30/87	0001	AL	D		< 0.01		0.01	-
	0632	09/20/86	0001	AL	D		0.05		0.01	-
	0632	09/01/87	0001	AL	D		< 0.01		0.01	-
	0632	11/12/87	0001	AL	D		< 0.01		0.01	-
	0633	04/19/89	0001	AL	D		< 0.01		0.01	-
	0638	03/19/87	0001	AL	D		0.02		0.01	-
	0638	05/14/87	0001	AL	D		0.06		0.01	-
	0638	09/25/87	0001	AL	D		< 0.01		0.01	-
	0638	10/09/88	0001	AL	D		0.03		0.01	-
	0638	04/20/89	0001	AL	D		< 0.01		0.01	-
	0639	03/19/87	0001	AL	D		0.03		0.01	-
	0639	05/14/87	0001	AL	D		0.12		0.01	-
	0639	09/25/87	0001	AL	D		< 0.01		0.01	-
0639	10/09/88	0001	AL	D		0.15		0.01	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CHROMIUM	0639	04/20/89	0001	AL	D	MG/L	<	0.01		0.01	-
	0640	03/19/87	0001	AL	D		<	0.05		0.01	-
	0640	09/24/87	0001	AL	D		<	0.01		0.01	-
	0640	04/19/89	0001	AL	D		<	0.01		0.01	-
	0641	03/18/87	0001	AL	D		<	0.11		0.01	-
	0641	05/14/87	0001	AL	D		<	0.24		0.01	-
	0641	09/24/87	0001	AL	D		<	0.01		0.01	-
	0641	10/09/88	0001	AL	D		<	0.23		0.01	-
	0641	04/18/89	0001	AL	D		<	0.01		0.01	-
	0642	03/19/87	0001	AL	D		<	0.07		0.01	-
	0642	05/20/87	0001	AL	D		<	0.20		0.01	-
	0642	09/23/87	0001	AL	D		<	0.01		0.01	-
	0642	04/18/89	0001	AL	D		<	0.01		0.01	-
	0643	03/19/87	0001	AL	D		<	0.14		0.01	-
	0643	09/24/87	0001	AL	D		<	0.01		0.01	-
	0643	04/18/89	0001	AL	D		<	0.01		0.01	-
	0644	03/18/87	0001	AL	D		<	0.11		0.01	-
	0644	05/20/87	0001	AL	D		<	0.34		0.01	-
	0644	09/23/87	0001	AL	D		<	0.01		0.01	-
	0644	10/09/88	0001	AL	D		<	0.22		0.01	-
	0645	03/17/87	0001	AL	U		<	0.11	c	0.11	-
	0645	05/16/87	0001	AL	U		<	0.05		0.01	-
	0645	09/23/87	0001	AL	U		<	0.01		0.01	-
	0645	04/02/89	0001	AL	U		<	0.01		0.01	-
	0646	03/18/87	0001	AL	U		<	0.11	c	0.11	-
	0646	05/16/87	0001	AL	U		<	0.07		0.01	-
	0646	09/22/87	0001	AL	U		<	0.01		0.01	-
	0646	10/09/88	0001	AL	U		<	0.07		0.01	-
	0646	04/02/89	0001	AL	U		<	0.01		0.01	-
	0647	03/18/87	0001	AL	U		<	0.02		0.01	-
	0647	05/17/87	0001	AL	U		<	0.04		0.01	-
	0647	09/20/87	0001	AL	U		<	0.01		0.01	-
	0647	04/02/89	0001	AL	U		<	0.01		0.01	-
0670	10/09/88	0001	AL	D	<	0.06		0.01	-		
0670	04/21/89	0001	AL	D	<	0.01		0.01	-		
0671	10/09/88	0001	AL	D	<	0.06		0.01	-		
0671	04/21/89	0001	AL	D	<	0.01		0.01	-		
0672	10/09/88	0001	AL	D	<	0.04		0.01	-		
0672	04/22/89	0001	AL	D	<	0.01		0.01	-		

B-43

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)

APPENDIX B

SITE: SHP01 SHIPROCK

09/14/86 TO 01/08/91

REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER VALUE		FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
							PVI	VALUE			
COBALT	0601	09/19/86	0001	AL	U	MG/L	<	0.05		0.05	-
	0602	09/18/87	0001	AL	D		<	0.01		0.05	-
	0603	09/03/87	0001	AL	D		<	0.01		0.05	-
	0603	04/06/89	0001	AL	D		<	0.05		0.05	-
	0603	06/04/90	0001	AL	D		<	.05		0.05	-
	0604	09/03/87	0001	AL	D		<	0.01		0.05	-
	0607	09/19/86	0001	AL	D			0.15		0.05	-
	0607	09/01/87	0001	AL	D		<	0.01		0.05	-
	0608	09/18/86	0001	AL	D			0.14		0.05	-
	0608	09/22/87	0001	AL	D		<	0.01		0.05	-
	0608	04/03/89	0001	AL	D		<	0.05		0.05	-
	0608	06/01/90	0001	AL	D		<	.05		0.05	-
	0608	10/07/90	0001	AL	D		<	0.06	Ic	0.06	-
	0609	09/17/86	0001	AL	D			0.14		0.05	-
	0609	09/21/87	0001	AL	D		<	0.01		0.05	-
	0610	09/18/86	0001	AL	D			0.12		0.05	-
	0610	09/21/87	0001	AL	D		<	0.01		0.05	-
	0610	04/03/89	0001	AL	D		<	0.05		0.05	-
	0610	06/01/90	0001	AL	D		<	.05		0.05	-
	0610	10/07/90	0001	AL	D		<	0.03		0.03	-
	0611	09/19/87	0001	AL	D		<	0.01		0.05	-
	0612	09/17/86	0001	AL	D		<	0.05		0.05	-
	0612	09/19/87	0001	AL	D		<	0.01		0.05	-
	0612	04/03/89	0001	AL	D		<	0.05		0.05	-
	0613	09/18/86	0001	AL	D			0.14		0.05	-
	0613	09/18/87	0001	AL	D		<	0.01		0.05	-
	0614	09/18/87	0001	AL	D		<	0.01		0.05	-
	0614	10/11/88	0001	AL	D			0.06		0.05	-
	0614	04/03/89	0001	AL	D		<	0.05		0.05	-
	0614	06/01/90	0001	AL	D		<	.05		0.05	-
	0614	10/07/90	0001	AL	D		<	0.03		0.03	-
	0615	09/18/87	0001	AL	D			0.02	c	0.02	-
	0615	04/03/89	0001	AL	D		<	0.05		0.05	-
0615	06/01/90	0001	AL	D		<	.05		0.05	-	
0615	10/09/90	0001	AL	D			0.08		0.03	-	
0616	09/15/86	0001	AL	D			0.06		0.05	-	
0616	09/18/87	0001	AL	D		<	0.01		0.05	-	
0616	04/04/89	0001	AL	D		<	0.05		0.05	-	

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
U - UPGRADIENT
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
COBALT	0616	06/01/90	0001	AL	D	MG/L	<	.05		0.05	-
	0616	10/09/90	0001	AL	D		<	0.03		0.03	-
	0617	09/18/87	0001	AL	D		<	0.01		0.05	-
	0617	04/04/89	0001	AL	D		<	0.05		0.05	-
	0617	06/01/90	0001	AL	D		<	.05		0.05	-
	0617	10/09/90	0001	AL	D		<	0.03		0.03	-
	0618	09/18/87	0001	AL	D		<	0.01		0.05	-
	0618	10/11/88	0001	AL	D		<	0.05		0.05	-
	0619	09/19/87	0001	AL	D		<	0.01	c	0.01	-
	0619	04/05/89	0001	AL	D		<	0.05		0.05	-
	0619	06/01/90	0001	AL	D		<	.05		0.05	-
	0619	10/09/90	0001	AL	D		<	0.03		0.03	-
	0620	09/16/86	0001	AL	D		<	0.27		0.05	-
	0620	08/30/87	0001	AL	D		<	0.02	c	0.02	-
	0620	04/05/89	0001	AL	D		<	0.05		0.05	-
	0620	06/01/90	0001	AL	D		<	5.05		0.05	-
	0621	09/15/86	0001	AL	D		<	0.23		0.05	-
	0621	09/01/87	0001	AL	D		<	0.02	c	0.02	-
	0622	09/16/86	0001	AL	D		<	0.23		0.05	-
	0622	09/01/87	0001	AL	D		<	0.01		0.05	-
	0623	09/01/87	0001	AL	D		<	0.01	c	0.01	-
	0624	09/18/86	0001	AL	D		<	0.19		0.05	-
	0624	09/01/87	0001	AL	D		<	0.01		0.05	-
	0624	04/04/89	0001	AL	D		<	0.05		0.05	-
	0624	10/09/90	0001	AL	D		<	0.03		0.03	-
	0625	09/03/87	0001	AL	D		<	0.01	c	0.01	-
	0626	09/01/87	0001	AL	D		<	0.02	c	0.02	-
	0626	04/05/89	0001	AL	D		<	0.05		0.05	-
	0626	06/04/90	0001	AL	D		<	.05		0.05	-
	0626	10/11/90	0001	AL	D		<	0.03		0.03	-
	0627	09/14/86	0001	AL	D		<	0.12		0.05	-
	0627	09/16/87	0001	AL	D		<	0.01		0.05	-
	0628	09/16/87	0001	AL	D		<	0.01		0.05	-
0628	04/05/89	0001	AL	D		<	0.05		0.05	-	
0628	06/04/90	0001	AL	D		<	.05		0.05	-	
0628	10/11/90	0001	AL	D		<	0.03		0.03	-	
0629	08/30/87	0001	AL	D		<	0.01		0.05	-	
0629	04/18/89	0001	AL	D		<	0.05		0.05	-	
0630	09/15/86	0001	AL	D		<	0.07		0.05	-	
0630	08/30/87	0001	AL	D		<	0.01		0.05	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
COBALT	0630	06/04/90	0001	AL	D	MG/L	<	.05		0.05	-
	0630	10/10/90	0001	AL	D		<	0.03		0.03	-
	0631	09/20/86	0001	AL	D			0.07		0.05	-
	0631	08/30/87	0001	AL	D		<	0.01		0.05	-
	0632	09/20/86	0001	AL	D			0.08		0.05	-
	0632	09/01/87	0001	AL	D		<	0.01		0.05	-
	0632	11/12/87	0001	AL	D		<	0.01		0.05	-
	0633	04/19/89	0001	AL	D		<	0.05		0.05	-
	0638	03/19/87	0001	AL	D			0.10		0.05	-
	0638	05/14/87	0001	AL	D		<	0.01		0.05	-
	0638	09/25/87	0001	AL	D		<	0.01		0.05	-
	0638	10/09/88	0001	AL	D		<	0.05		0.05	-
	0638	04/20/89	0001	AL	D		<	0.05		0.05	-
	0639	03/19/87	0001	AL	D			0.12		0.05	-
	0639	05/14/87	0001	AL	D			0.02	c	0.02	-
	0639	09/25/87	0001	AL	D		<	0.01		0.05	-
	0639	10/09/88	0001	AL	D		<	0.05		0.05	-
	0639	04/20/89	0001	AL	D		<	0.05		0.05	-
	0640	03/19/87	0001	AL	D			0.21		0.05	-
	0640	09/24/87	0001	AL	D		<	0.01		0.05	-
	0640	04/19/89	0001	AL	D		<	0.05		0.05	-
	0641	03/18/87	0001	AL	D			0.33		0.05	-
	0641	05/14/87	0001	AL	D			0.07		0.05	-
	0641	09/24/87	0001	AL	D			0.01	c	0.01	-
	0641	10/09/88	0001	AL	D			0.09		0.05	-
	0641	04/18/89	0001	AL	D		<	0.05		0.05	-
	0642	03/19/87	0001	AL	D			0.23		0.05	-
	0642	05/20/87	0001	AL	D			0.04	c	0.04	-
	0642	09/23/87	0001	AL	D			0.01	c	0.01	-
	0642	04/18/89	0001	AL	D		<	0.05		0.05	-
	0643	03/19/87	0001	AL	D			0.60		0.05	-
	0643	09/24/87	0001	AL	D		<	0.01		0.05	-
	0643	04/18/89	0001	AL	D		<	0.05		0.05	-
0644	03/18/87	0001	AL	D			0.40		0.05	-	
0644	05/20/87	0001	AL	D			0.13		0.05	-	
0644	09/23/87	0001	AL	D		<	0.01		0.05	-	
0644	10/09/88	0001	AL	D			0.08		0.05	-	
0645	03/17/87	0001	AL	U			0.05		0.05	-	
0645	05/16/87	0001	AL	U		<	0.01		0.05	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
COBALT	0645	09/23/87	0001	AL	U	MG/L	<	0.01		0.05	-
	0645	04/02/89	0001	AL	U		<	0.05		0.05	-
	0646	03/18/87	0001	AL	U			0.06		0.05	-
	0646	05/16/87	0001	AL	U			0.01	c	0.01	-
	0646	09/22/87	0001	AL	U		<	0.01		0.05	-
	0646	10/09/88	0001	AL	U		<	0.05		0.05	-
	0646	04/02/89	0001	AL	U		<	0.05		0.05	-
	0647	03/18/87	0001	AL	U			0.09		0.05	-
	0647	05/17/87	0001	AL	U		<	0.01		0.05	-
	0647	09/20/87	0001	AL	U		<	0.01		0.05	-
	0647	04/02/89	0001	AL	U		<	0.05		0.05	-
	0670	10/09/88	0001	AL	D		<	0.05		0.05	-
	0670	04/21/89	0001	AL	D		<	0.05		0.05	-
	0671	10/09/88	0001	AL	D		<	0.05		0.05	-
	0671	04/21/89	0001	AL	D		<	0.05		0.05	-
	0672	10/09/88	0001	AL	D		<	0.05		0.05	-
0672	04/22/89	0001	AL	D	<	0.05		0.05	-		
COPPER	0601	09/19/86	0001	AL	U	MG/L	<	0.02		0.02	-
	0602	09/18/87	0001	AL	D		<	0.01		0.02	-
	0603	09/03/87	0001	AL	D			0.06		0.02	-
	0603	04/06/89	0001	AL	D			0.05		0.02	-
	0603	06/04/90	0001	AL	D		<	.02		0.02	-
	0604	09/03/87	0001	AL	D			0.02		0.02	-
	0607	09/19/86	0001	AL	D			0.08		0.02	-
	0607	09/01/87	0001	AL	D			0.05		0.02	-
	0608	09/18/86	0001	AL	D			0.08		0.02	-
	0608	09/22/87	0001	AL	D			0.03		0.02	-
	0608	04/03/89	0001	AL	D			0.03		0.02	-
	0608	06/01/90	0001	AL	D		<	.02		0.02	-
	0608	10/07/90	0001	AL	D		<	0.02	Ic	0.02	-
	0609	09/17/86	0001	AL	D			0.07		0.02	-
	0609	09/21/87	0001	AL	D			0.05		0.02	-
	0610	09/18/86	0001	AL	D			0.05		0.02	-
	0610	09/21/87	0001	AL	D			0.05		0.02	-
	0610	04/03/89	0001	AL	D			0.02		0.02	-
0610	06/01/90	0001	AL	D	<	.02		0.02	-		
0610	10/07/90	0001	AL	D	<	0.01		0.01	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 U - UPGRADIENT
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
COPPER	0611	09/19/87	0001	AL	D	MG/L	<	0.01		0.02	-
	0612	09/17/86	0001	AL	D			0.02		0.02	-
	0612	09/19/87	0001	AL	D		<	0.01		0.02	-
	0612	04/03/89	0001	AL	D		<	0.02		0.02	-
	0613	09/18/86	0001	AL	D			0.09		0.02	-
	0613	09/18/87	0001	AL	D			0.02		0.02	-
	0614	09/18/87	0001	AL	D			0.01	c	0.01	-
	0614	10/11/88	0001	AL	D			0.03		0.02	-
	0614	04/03/89	0001	AL	D		<	0.02		0.02	-
	0614	06/01/90	0001	AL	D		<	.02		0.02	-
	0614	10/07/90	0001	AL	D			0.01		0.01	-
	0615	09/18/87	0001	AL	D			0.01	c	0.01	-
	0615	04/03/89	0001	AL	D			0.03		0.02	-
	0615	06/01/90	0001	AL	D		<	.02		0.02	-
	0615	10/09/90	0001	AL	D		<	0.02	Ic	0.02	-
	0616	09/15/86	0001	AL	D		<	0.02		0.02	-
	0616	09/18/87	0001	AL	D		<	0.01		0.02	-
	0616	04/04/89	0001	AL	D		<	0.02		0.02	-
	0616	06/01/90	0001	AL	D		<	.02		0.02	-
	0616	10/09/90	0001	AL	D		<	0.01		0.01	-
	0617	09/18/87	0001	AL	D			0.02		0.02	-
	0617	04/04/89	0001	AL	D		<	0.02		0.02	-
	0617	06/01/90	0001	AL	D		<	.02		0.02	-
	0617	10/09/90	0001	AL	D		<	0.01		0.01	-
	0618	09/18/87	0001	AL	D			0.06		0.02	-
	0618	10/11/88	0001	AL	D		<	0.02		0.02	-
	0619	09/19/87	0001	AL	D			0.10		0.02	-
	0619	04/05/89	0001	AL	D			0.04		0.02	-
	0619	06/01/90	0001	AL	D		<	.02		0.02	-
	0619	10/09/90	0001	AL	D		<	0.01		0.01	-
0620	09/16/86	0001	AL	D			0.09		0.02	-	
0620	08/30/87	0001	AL	D			0.05		0.02	-	
0620	04/05/89	0001	AL	D			0.03		0.02	-	
0620	06/01/90	0001	AL	D		<	.02		0.02	-	
0621	09/15/86	0001	AL	D			0.09		0.02	-	
0621	09/01/87	0001	AL	D			0.04		0.02	-	
0622	09/16/86	0001	AL	D			0.11		0.02	-	
0622	09/01/87	0001	AL	D			0.07		0.02	-	
0623	09/01/87	0001	AL	D			0.03		0.02	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY	
COPPER	0624	09/18/86	0001	AL	D	MG/L		0.08		0.02	-	
	0624	09/01/87	0001	AL	D			0.02		0.02	-	
	0624	04/04/89	0001	AL	D			0.03		0.02	-	
	0624	10/09/90	0001	AL	D			0.01		0.01	-	
	0625	09/03/87	0001	AL	D			0.04		0.02	-	
	0626	09/01/87	0001	AL	D			0.03		0.02	-	
	0626	04/05/89	0001	AL	D			0.02		0.02	-	
	0626	06/04/90	0001	AL	D			<	.02		0.02	-
	0626	10/11/90	0001	AL	D			<	0.01		0.01	-
	0627	09/14/86	0001	AL	D				0.05		0.02	-
	0627	09/16/87	0001	AL	D				0.02		0.02	-
	0628	09/16/87	0001	AL	D				0.02		0.02	-
	0628	04/05/89	0001	AL	D				0.02		0.02	-
	0628	06/04/90	0001	AL	D			<	.02		0.02	-
	0628	10/11/90	0001	AL	D			<	0.01		0.01	-
	0629	08/30/87	0001	AL	D				0.01	c	0.01	-
	0629	04/18/89	0001	AL	D			<	0.02		0.02	-
	0630	09/15/86	0001	AL	D				0.03		0.02	-
	0630	08/30/87	0001	AL	D				0.05		0.02	-
	0630	06/04/90	0001	AL	D			<	.02		0.02	-
	0630	10/10/90	0001	AL	D			<	0.01		0.01	-
	0631	09/20/86	0001	AL	D				0.03		0.02	-
	0631	08/30/87	0001	AL	D				0.08		0.02	-
	0632	09/20/86	0001	AL	D				0.02		0.02	-
	0632	09/01/87	0001	AL	D			<	0.01		0.02	-
	0632	11/12/87	0001	AL	D				0.02		0.02	-
	0633	04/19/89	0001	AL	D				0.02		0.02	-
	0638	03/19/87	0001	AL	D				0.05		0.02	-
	0638	05/14/87	0001	AL	D			<	0.01		0.02	-
	0638	09/25/87	0001	AL	D			<	0.01		0.02	-
	0638	10/09/88	0001	AL	D			<	0.02		0.02	-
	0638	04/20/89	0001	AL	D			<	0.02		0.02	-
	0639	03/19/87	0001	AL	D				0.02		0.02	-
	0639	05/14/87	0001	AL	D				0.01	c	0.01	-
	0639	09/25/87	0001	AL	D			<	0.01		0.02	-
	0639	10/09/88	0001	AL	D			<	0.02		0.02	-
	0639	04/20/89	0001	AL	D				0.02		0.02	-
	0640	03/19/87	0001	AL	D				0.07		0.02	-
	0640	09/24/87	0001	AL	D				0.01	c	0.01	-
	0640	04/19/89	0001	AL	D				0.02		0.02	-

B-49

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

B-50

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
COPPER	0641	03/18/87	0001	AL	D	MG/L	0.09		0.02	-
	0641	05/14/87	0001	AL	D		0.03		0.02	-
	0641	09/24/87	0001	AL	D		< 0.01		0.02	-
	0641	10/09/88	0001	AL	D		0.03		0.02	-
	0641	04/18/89	0001	AL	D		< 0.02		0.02	-
	0642	03/19/87	0001	AL	D		0.06		0.02	-
	0642	05/20/87	0001	AL	D		0.02		0.02	-
	0642	09/23/87	0001	AL	D		0.02		0.02	-
	0642	04/18/89	0001	AL	D		0.03		0.02	-
	0643	03/19/87	0001	AL	D		0.19		0.02	-
	0643	09/24/87	0001	AL	D		0.04		0.02	-
	0643	04/18/89	0001	AL	D		0.02		0.02	-
	0644	03/18/87	0001	AL	D		0.10		0.02	-
	0644	05/20/87	0001	AL	D		0.05		0.02	-
	0644	09/23/87	0001	AL	D		0.04		0.02	-
	0644	10/09/88	0001	AL	D		0.03		0.02	-
	0645	03/17/87	0001	AL	U		< 0.01		0.02	-
	0645	05/16/87	0001	AL	U		< 0.01		0.02	-
	0645	09/23/87	0001	AL	U		< 0.01		0.02	-
	0645	04/02/89	0001	AL	U		< 0.02		0.02	-
	0646	03/18/87	0001	AL	U		0.01	c	0.01	-
	0646	05/16/87	0001	AL	U		< 0.01		0.02	-
	0646	09/22/87	0001	AL	U		< 0.01		0.02	-
	0646	10/09/88	0001	AL	U		< 0.02		0.02	-
	0646	04/02/89	0001	AL	U		< 0.02		0.02	-
	0647	03/18/87	0001	AL	U		0.02		0.02	-
	0647	05/17/87	0001	AL	U		< 0.01		0.02	-
	0647	09/20/87	0001	AL	U		< 0.01		0.02	-
	0647	04/02/89	0001	AL	U		< 0.02		0.02	-
	0670	10/09/88	0001	AL	D		< 0.02		0.02	-
0670	04/21/89	0001	AL	D		< 0.02		0.02	-	
0671	10/09/88	0001	AL	D		< 0.02		0.02	-	
0671	04/21/89	0001	AL	D		< 0.02		0.02	-	
0672	10/09/88	0001	AL	D		< 0.02		0.02	-	
0672	04/22/89	0001	AL	D		< 0.02		0.02	-	
CYANIDE	0601	09/19/86	0001	AL	U	MG/L	< 0.01		0.01	-
	0603	04/06/89	0001	AL	D		< 0.01		0.01	-
	0607	09/19/86	0001	AL	D		< 0.01		0.01	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CYANIDE	0608	09/18/86	0001	AL	D	MG/L	<	0.01		0.01	-
	0608	04/03/89	0001	AL	D		<	0.01		0.01	-
	0609	09/17/86	0001	AL	D		<	0.01		0.01	-
	0610	09/18/86	0001	AL	D		<	0.01		0.01	-
	0610	04/03/89	0001	AL	D		<	0.01		0.01	-
	0612	09/17/86	0001	AL	D		<	0.01		0.01	-
	0612	04/03/89	0001	AL	D		<	0.01		0.01	-
	0613	09/18/86	0001	AL	D		<	0.01		0.01	-
	0614	04/03/89	0001	AL	D		<	0.01		0.01	-
	0615	04/03/89	0001	AL	D		<	0.01		0.01	-
	0616	09/15/86	0001	AL	D		<	0.01		0.01	-
	0616	04/04/89	0001	AL	D		<	0.01		0.01	-
	0617	04/04/89	0001	AL	D		<	0.01		0.01	-
	0619	04/05/89	0001	AL	D		<	0.01		0.01	-
	0620	09/16/86	0001	AL	D		<	0.01		0.01	-
	0620	04/05/89	0001	AL	D		<	0.01		0.01	-
	0621	09/15/86	0001	AL	D		<	0.01		0.01	-
	0622	09/16/86	0001	AL	D		<	0.01		0.01	-
	0624	09/18/86	0001	AL	D		<	0.01		0.01	-
	0624	04/04/89	0001	AL	D		<	0.01		0.01	-
	0626	04/05/89	0001	AL	D		<	0.01		0.01	-
	0627	09/14/86	0001	AL	D		<	0.01		0.01	-
	0628	04/05/89	0001	AL	D		<	0.01		0.01	-
	0629	04/18/89	0001	AL	D		<	0.01		0.01	-
	0630	09/15/86	0001	AL	D		<	0.01		0.01	-
	0631	09/20/86	0001	AL	D		<	0.01		0.01	-
	0632	09/20/86	0001	AL	D		<	0.01		0.01	-
	0633	04/19/89	0001	AL	D		<	0.01		0.01	-
	0638	04/20/89	0001	AL	D		<	0.01		0.01	-
	0639	04/20/89	0001	AL	D		<	0.01		0.01	-
	0640	04/19/89	0001	AL	D		<	0.01		0.01	-
	0641	04/18/89	0001	AL	D		<	0.01		0.01	-
	0642	04/18/89	0001	AL	D		<	0.01		0.01	-
	0643	04/18/89	0001	AL	D		<	0.01		0.01	-
0645	04/02/89	0001	AL	U	<	0.01		0.01	-		
0646	04/02/89	0001	AL	U	<	0.01		0.01	-		
0647	04/02/89	0001	AL	U	<	0.01		0.01	-		
0670	04/21/89	0001	AL	D	<	0.01		0.01	-		
0671	04/21/89	0001	AL	D	<	0.01		0.01	-		
0672	04/22/89	0001	AL	D	<	0.01		0.01	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI	VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
FLUORIDE	0601	09/19/86	0001	AL	U	MG/L		0.3		0.1	-
	0602	09/18/87	0001	AL	D		0.46	0.1	-		
	0603	09/03/87	0001	AL	D		0.65	0.1	-		
	0603	04/06/89	0001	AL	D		0.7	0.1	-		
	0603	06/04/90	0001	AL	D		.1	0.1	-		
	0604	09/03/87	0001	AL	D		1.15	0.1	-		
	0607	09/19/86	0001	AL	D		1.5	0.1	-		
	0607	09/01/87	0001	AL	D		0.34	0.1	-		
	0608	09/18/86	0001	AL	D		0.8	0.1	-		
	0608	09/22/87	0001	AL	D		0.51	0.1	-		
	0608	04/03/89	0001	AL	D		0.4	0.1	-		
	0608	06/01/90	0001	AL	D		.5	0.1	-		
	0608	10/07/90	0001	AL	D		1.2	0.1	-		
	0609	09/17/86	0001	AL	D		0.8	0.1	-		
	0609	09/21/87	0001	AL	D		0.49	0.1	-		
	0610	09/18/86	0001	AL	D		0.7	0.1	-		
	0610	09/21/87	0001	AL	D		0.59	0.1	-		
	0610	04/03/89	0001	AL	D		0.5	0.1	-		
	0610	06/01/90	0001	AL	D		.6	0.1	-		
	0610	10/07/90	0001	AL	D		1.0	0.1	-		
	0611	09/19/87	0001	AL	D		0.57	0.1	-		
	0612	09/17/86	0001	AL	D		0.8	0.1	-		
	0612	09/19/87	0001	AL	D		0.74	0.1	-		
	0612	04/03/89	0001	AL	D		0.7	0.1	-		
	0613	09/18/86	0001	AL	D		0.8	0.1	-		
	0613	09/18/87	0001	AL	D		0.60	0.1	-		
	0614	09/18/87	0001	AL	D		0.53	0.1	-		
	0614	10/11/88	0001	AL	D		0.6	0.1	-		
	0614	04/03/89	0001	AL	D		0.5	0.1	-		
	0614	06/01/90	0001	AL	D		.5	0.1	-		
	0614	10/07/90	0001	AL	D		0.8	0.1	-		
	0615	09/18/87	0001	AL	D		0.39	0.1	-		
0615	04/03/89	0001	AL	D	0.3	0.1	-				
0615	06/01/90	0001	AL	D	.4	0.1	-				
0615	10/09/90	0001	AL	D	0.9	0.1	-				
0616	09/15/86	0001	AL	D	0.6	0.1	-				
0616	09/18/87	0001	AL	D	0.42	0.1	-				
0616	04/04/89	0001	AL	D	0.5	0.1	-				
0616	06/01/90	0001	AL	D	.5	0.1	-				
0616	10/09/90	0001	AL	D	0.6	0.1	-				

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 U - UPGRADIENT
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
FLUORIDE	0617	09/18/87	0001	AL	D	MG/L	0.24		0.1	-
	0617	04/04/89	0001	AL	D		0.2		0.1	-
	0617	06/01/90	0001	AL	D		.2		0.1	-
	0617	10/09/90	0001	AL	D		0.1		0.1	-
	0618	09/18/87	0001	AL	D		0.23		0.1	-
	0618	10/11/88	0001	AL	D		0.2		0.1	-
	0619	09/19/87	0001	AL	D		0.38		0.1	-
	0619	04/05/89	0001	AL	D		0.3		0.1	-
	0619	06/01/90	0001	AL	D		.3		0.1	-
	0619	10/09/90	0001	AL	D		0.5		0.1	-
	0620	09/16/86	0001	AL	D		0.4		0.1	-
	0620	08/30/87	0001	AL	D		0.20		0.1	-
	0620	04/05/89	0001	AL	D		0.3		0.1	-
	0620	06/01/90	0001	AL	D		.3		0.1	-
	0621	09/15/86	0001	AL	D		0.3		0.1	-
	0621	09/01/87	0001	AL	D		0.20		0.1	-
	0622	09/16/86	0001	AL	D		0.4		0.1	-
	0622	09/01/87	0001	AL	D		0.25		0.1	-
	0623	09/01/87	0001	AL	D		0.24		0.1	-
	0624	09/18/86	0001	AL	D		0.3		0.1	-
	0624	09/01/87	0001	AL	D		0.20		0.1	-
	0624	04/04/89	0001	AL	D		0.3		0.1	-
	0624	10/09/90	0001	AL	D		0.4		0.1	-
	0625	09/03/87	0001	AL	D		0.27		0.1	-
	0626	09/01/87	0001	AL	D		0.56		0.1	-
	0626	04/05/89	0001	AL	D		0.7		0.1	-
	0626	06/04/90	0001	AL	D		.9		0.1	-
	0626	10/11/90	0001	AL	D		1.0		0.1	-
	0627	09/14/86	0001	AL	D		0.6		0.1	-
	0627	09/16/87	0001	AL	D		0.56		0.1	-
	0628	09/16/87	0001	AL	D		0.58		0.1	-
	0628	04/05/89	0001	AL	D		1.0		0.1	-
	0628	06/04/90	0001	AL	D		1.0		0.1	-
0628	10/11/90	0001	AL	D	1.2		0.1	-		
0629	08/30/87	0001	AL	D	1.4		0.1	-		
0629	04/18/89	0001	AL	D	1.4		0.1	-		
0630	09/15/86	0001	AL	D	1.3		0.1	-		
0630	08/30/87	0001	AL	D	1.4		0.1	-		
0630	06/04/90	0001	AL	D	1.5		0.1	-		
0630	10/10/90	0001	AL	D	1.8		0.1	-		
0631	09/20/86	0001	AL	D	0.4		0.1	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
FLUORIDE	0631	08/30/87	0001	AL	D	MG/L		0.4		0.1	-
	0632	09/20/86	0001	AL	D		0.4	0.1	-		
	0632	09/01/87	0001	AL	D		0.3	0.1	-		
	0632	11/12/87	0001	AL	D		0.35	0.1	-		
	0633	04/19/89	0001	AL	D		2.0	0.1	-		
	0638	03/19/87	0001	AL	D		0.49	0.1	-		
	0638	05/14/87	0001	AL	D		0.66	0.1	-		
	0638	09/25/87	0001	AL	D		0.55	0.1	-		
	0638	10/09/88	0001	AL	D		0.5	0.1	-		
	0638	04/20/89	0001	AL	D		0.5	0.1	-		
	0639	03/19/87	0001	AL	D		0.58	0.1	-		
	0639	05/14/87	0001	AL	D		0.64	0.1	-		
	0639	09/25/87	0001	AL	D		0.55	0.1	-		
	0639	10/09/88	0001	AL	D		0.5	0.1	-		
	0639	04/20/89	0001	AL	D		0.4	0.1	-		
	0640	03/19/87	0001	AL	D		0.50	0.1	-		
	0640	09/24/87	0001	AL	D		0.50	0.1	-		
	0640	04/19/89	0001	AL	D		0.5	0.1	-		
	0641	03/18/87	0001	AL	D		0.44	0.1	-		
	0641	05/14/87	0001	AL	D		0.50	0.1	-		
	0641	09/24/87	0001	AL	D		0.52	0.1	-		
	0641	10/09/88	0001	AL	D		0.5	0.1	-		
	0641	04/18/89	0001	AL	D		0.5	0.1	-		
	0642	03/19/87	0001	AL	D		0.30	0.1	-		
	0642	05/20/87	0001	AL	D		0.37	0.1	-		
	0642	09/23/87	0001	AL	D		0.39	0.1	-		
	0642	04/18/89	0001	AL	D		0.3	0.1	-		
	0643	03/19/87	0001	AL	D		0.63	0.1	-		
	0643	09/24/87	0001	AL	D		0.70	0.1	-		
	0643	04/18/89	0001	AL	D		0.6	0.1	-		
	0644	03/18/87	0001	AL	D		0.46	0.1	-		
	0644	05/20/87	0001	AL	D		0.47	0.1	-		
	0644	09/23/87	0001	AL	D		0.57	0.1	-		
	0644	10/09/88	0001	AL	D		0.5	0.1	-		
0645	03/17/87	0001	AL	U	0.46	0.1	-				
0645	05/16/87	0001	AL	U	0.34	0.1	-				
0645	09/23/87	0001	AL	U	0.28	0.1	-				
0645	04/02/89	0001	AL	U	0.3	0.1	-				
0646	03/18/87	0001	AL	U	0.33	0.1	-				
0646	05/16/87	0001	AL	U	0.40	0.1	-				

B-54

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

B-55

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
FLUORIDE	0646	09/22/87	0001	AL	U	MG/L	0.24		0.1	-
	0646	10/09/88	0001	AL	U		0.2		0.1	-
	0646	04/02/89	0001	AL	U		0.2		0.1	-
	0647	03/18/87	0001	AL	U		0.28		0.1	-
	0647	05/17/87	0001	AL	U		0.36		0.1	-
	0647	09/20/87	0001	AL	U		0.29		0.1	-
	0647	04/02/89	0001	AL	U		0.2		0.1	-
	0670	01/20/88	0001	AL	D		0.49		0.1	-
	0670	03/31/88	0001	AL	D		0.50		0.1	-
	0670	05/17/88	0001	AL	D		0.48		0.1	-
	0670	10/09/88	0001	AL	D		0.5		0.1	-
	0670	04/21/89	0001	AL	D		0.5		0.1	-
	0671	01/20/88	0001	AL	D		0.47		0.1	-
	0671	03/31/88	0001	AL	D		0.57		0.1	-
	0671	05/17/88	0001	AL	D		0.58		0.1	-
	0671	10/09/88	0001	AL	D		0.5		0.1	-
	0671	04/21/89	0001	AL	D		0.7		0.1	-
	0672	01/20/88	0001	AL	D		0.73		0.1	-
	0672	03/31/88	0001	AL	D		0.58		0.1	-
	0672	05/17/88	0001	AL	D		0.56		0.1	-
0672	10/09/88	0001	AL	D		0.6		0.1	-	
0672	04/22/89	0001	AL	D		0.6		0.1	-	
GROSS ALPHA	0602	09/18/87	0001	AL	D	PCI/L	200.		0.2	40.
	0603	09/03/87	0001	AL	D		2300.		0.2	300.
	0603	04/06/89	0001	AL	D		1600.		0.2	300.
	0604	09/03/87	0001	AL	D		320.		0.2	70.
	0607	09/01/87	0001	AL	D		1600.		0.2	300.
	0608	09/22/87	0001	AL	D		2000.		0.2	300.
	0608	04/03/89	0001	AL	D		1600.		0.2	300.
	0609	09/21/87	0001	AL	D		2200.		0.2	300.
	0610	09/21/87	0001	AL	D		870.		0.2	140.
	0610	04/03/89	0001	AL	D		780.		0.2	190.
	0611	09/19/87	0001	AL	D		770.		0.2	120.
	0612	09/19/87	0001	AL	D		110.		0.2	20.
	0612	04/03/89	0001	AL	D		160.		0.2	20.
	0613	09/18/87	0001	AL	D		980.		0.2	110.
	0614	09/18/87	0001	AL	D		920.		0.2	110.
	0614	10/11/88	0001	AL	D		620.		0.2	150.
	0614	04/03/89	0001	AL	D		650.		0.2	160.

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 U - UPGRADIENT
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
APPENDIX B
SITE: SHP01 SHIPROCK
09/14/86 TO 01/08/91
REPORT DATE: 05/16/91

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	0615	09/18/87	0001	AL	D	PCI/L		1200.		0.2	20.
	0615	04/03/89	0001	AL	D		1900.	0.2	300.		
	0616	09/18/87	0001	AL	D		230.	0.2	40.		
	0616	04/04/89	0001	AL	D		180.	0.2	40.		
	0617	09/18/87	0001	AL	D		320.	0.2	50.		
	0617	04/04/89	0001	AL	D		300.	0.2	60.		
	0618	09/18/87	0001	AL	D		350.	0.2	50.		
	0618	10/11/88	0001	AL	D		240.	0.2	50.		
	0619	09/19/87	0001	AL	D		1700.	0.2	300.		
	0619	04/05/89	0001	AL	D		2700.	0.2	300.		
	0620	08/30/87	0001	AL	D		1600.	0.2	300.		
	0620	04/05/89	0001	AL	D		920.	0.2	190.		
	0621	09/01/87	0001	AL	D		2000.	0.2	300.		
	0622	09/01/87	0001	AL	D		1900.	0.2	300.		
	0623	09/01/87	0001	AL	D		1600.	0.2	300.		
	0624	09/01/87	0001	AL	D		1500.	0.2	300.		
	0624	04/04/89	0001	AL	D		2200.	0.2	300.		
	0625	09/03/87	0001	AL	D		1500.	0.2	300.		
	0626	09/01/87	0001	AL	D		650.	0.2	160.		
	0626	04/05/89	0001	AL	D		270.	0.2	90.		
	0627	09/16/87	0001	AL	D		420.	0.2	90.		
	0628	09/16/87	0001	AL	D		300.	0.2	80.		
	0628	04/05/89	0001	AL	D		230.	0.2	60.		
	0629	08/30/87	0001	AL	D		68.	0.2	21.		
	0629	04/18/89	0001	AL	D		39.	0.2	26.		
	0630	08/30/87	0001	AL	D		37.	0.2	18.		
	0631	08/30/87	0001	AL	D		16.	0.2	16.		
	0632	09/01/87	0001	AL	D		20.	0.2	25.		
	0632	11/12/87	0001	AL	D		15.	0.2	34.		
	0633	04/19/89	0001	AL	D		56.	0.2	23.		
	0638	09/25/87	0001	AL	D		2.0	0.2	5.6		
	0638	10/09/88	0001	AL	D		1.3	0.2	5.0		
	0638	04/20/89	0001	AL	D		4.0	0.2	6.9		
	0639	09/25/87	0001	AL	D		27.	0.2	27.		
	0639	10/09/88	0001	AL	D		36.	0.2	39.		
	0639	04/20/89	0001	AL	D		30.	0.2	29.		
	0640	09/24/87	0001	AL	D		38.	0.2	68.		
	0640	04/19/89	0001	AL	D		120.	0.2	80.		
	0641	09/24/87	0001	AL	D		750.	0.2	170.		
	0641	10/09/88	0001	AL	D		1700.	0.2	400.		
	0641	04/18/89	0001	AL	D		1100.	0.2	200.		

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER		DETECTION LIMIT	PARAMETER UNCERTAINTY
							PVI	VALUE		
GROSS ALPHA	0642	09/23/87	0001	AL	D	PCI/L		730.	0.2	150.
	0642	04/18/89	0001	AL	D			760.	0.2	160.
	0643	09/24/87	0001	AL	D			2100.	0.2	400.
	0643	04/18/89	0001	AL	D			1300.	0.2	300.
	0644	09/23/87	0001	AL	D			890.	0.2	240.
	0644	10/09/88	0001	AL	D			390.	0.2	200.
	0645	09/23/87	0001	AL	U			11.	0.2	6.
	0645	04/02/89	0001	AL	U			64.	0.2	22.
	0646	09/22/87	0001	AL	U			37.	0.2	13.
	0646	10/09/88	0001	AL	U			72.	0.2	17.
	0646	04/02/89	0001	AL	U			42.	0.2	8.
	0647	09/20/87	0001	AL	U			9.4	0.2	4.1
	0647	04/02/89	0001	AL	U			92.	0.2	25.
	0670	03/31/88	0001	AL	D			31.	0.2	15.
	0670	10/09/88	0001	AL	D			16.	0.2	10.
	0670	04/21/89	0001	AL	D			24.	0.2	11.
	0671	03/31/88	0001	AL	D			47.	0.2	34.
	0671	10/09/88	0001	AL	D			21.	0.2	11.
	0671	04/21/89	0001	AL	D			21.	0.2	12.
	0672	03/31/88	0001	AL	D			21.	0.2	10.
	0672	10/09/88	0001	AL	D			8.2	0.2	7.1
0672	04/22/89	0001	AL	D		14.	0.2	8.		
GROSS BETA	0602	09/18/87	0001	AL	D	PCI/L		200.	1.0	30.
	0603	09/03/87	0001	AL	D			1300.	1.0	100.
	0603	04/06/89	0001	AL	D			730.	1.0	110.
	0604	09/03/87	0001	AL	D			190.	1.0	40.
	0607	09/01/87	0001	AL	D			780.	1.0	130.
	0608	09/22/87	0001	AL	D			1100.	1.0	100.
	0608	04/03/89	0001	AL	D			1200.	1.0	100.
	0609	09/21/87	0001	AL	D			990.	1.0	120.
	0610	09/21/87	0001	AL	D			540.	1.0	80.
	0610	04/03/89	0001	AL	D			710.	1.0	80.
	0611	09/19/87	0001	AL	D			630.	1.0	60.
	0612	09/19/87	0001	AL	D			110.	1.0	10.
	0612	04/03/89	0001	AL	D			82.	1.0	7.
	0613	09/18/87	0001	AL	D			640.	1.0	40.
	0614	09/18/87	0001	AL	D			650.	1.0	40.
	0614	10/11/88	0001	AL	D			280.	1.0	60.
0614	04/03/89	0001	AL	D		430.	1.0	70.		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

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	0615	09/18/87	0001	AL	D	PCI/L		960.		1.0	70.
	0615	04/03/89	0001	AL	D		1200.	1.0	100.		
	0616	09/18/87	0001	AL	D		200.	1.0	20.		
	0616	04/04/89	0001	AL	D		140.	1.0	20.		
	0617	09/18/87	0001	AL	D		290.	1.0	30.		
	0617	04/04/89	0001	AL	D		190.	1.0	20.		
	0618	09/18/87	0001	AL	D		270.	1.0	30.		
	0618	10/11/88	0001	AL	D		130.	1.0	20.		
	0619	09/19/87	0001	AL	D		1100.	1.0	100.		
	0619	04/05/89	0001	AL	D		1100.	1.0	100.		
	0620	08/30/87	0001	AL	D		1100.	1.0	200.		
	0620	04/05/89	0001	AL	D		610.	1.0	70.		
	0621	09/01/87	0001	AL	D		1100.	1.0	200.		
	0622	09/01/87	0001	AL	D		1300.	1.0	200.		
	0623	09/01/87	0001	AL	D		960.	1.0	150.		
	0624	09/01/87	0001	AL	D		1100.	1.0	100.		
	0624	04/04/89	0001	AL	D		840.	1.0	110.		
	0625	09/03/87	0001	AL	D		1200.	1.0	100.		
	0626	09/01/87	0001	AL	D		470.	1.0	80.		
	0626	04/05/89	0001	AL	D		240.	1.0	50.		
	0627	09/16/87	0001	AL	D		230.	1.0	60.		
	0628	09/16/87	0001	AL	D		230.	1.0	60.		
	0628	04/05/89	0001	AL	D		130.	1.0	20.		
	0629	08/30/87	0001	AL	D		52.	1.0	17.		
	0629	04/18/89	0001	AL	D		35.	1.0	14.		
	0630	08/30/87	0001	AL	D		29.	1.0	18.		
	0631	08/30/87	0001	AL	D		27.	1.0	18.		
	0632	09/01/87	0001	AL	D		11.	1.0	26.		
	0632	11/12/87	0001	AL	D		24.	1.0	21.		
	0633	04/19/89	0001	AL	D		23.	1.0	11.		
	0638	09/25/87	0001	AL	D		7.5	1.0	4.8		
	0638	10/09/88	0001	AL	D		7.7	1.0	2.5		
	0638	04/20/89	0001	AL	D		14.	1.0	4.		
	0639	09/25/87	0001	AL	D		28.	1.0	22.		
	0639	10/09/88	0001	AL	D		34.	1.0	19.		
	0639	04/20/89	0001	AL	D		25.	1.0	16.		
	0640	09/24/87	0001	AL	D		20.	1.0	53.		
	0640	04/19/89	0001	AL	D		75.	1.0	39.		
	0641	09/24/87	0001	AL	D		470.	1.0	100.		
	0641	10/09/88	0001	AL	D		420.	1.0	150.		
	0641	04/18/89	0001	AL	D		490.	1.0	80.		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
APPENDIX B
SITE: SHP01 SHIPROCK
09/14/86 TO 01/08/91
REPORT DATE: 05/16/91

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	0642	09/23/87	0001	AL	D	PCI/L		380.		1.0	120.
	0642	04/18/89	0001	AL	D		330.		1.0	70.	
	0643	09/24/87	0001	AL	D		1100.		1.0	200.	
	0643	04/18/89	0001	AL	D		570.		1.0	100.	
	0644	09/23/87	0001	AL	D		410.		1.0	180.	
	0644	10/09/88	0001	AL	D		240.		1.0	70.	
	0645	09/23/87	0001	AL	U		5.9		1.0	3.6	
	0645	04/02/89	0001	AL	U		51.		1.0	10.	
	0646	09/22/87	0001	AL	U		20.		1.0	7.	
	0646	10/09/88	0001	AL	U		29.		1.0	6.	
	0646	04/02/89	0001	AL	U		20.		1.0	3.	
	0647	09/20/87	0001	AL	U		5.7		1.0	3.0	
	0647	04/02/89	0001	AL	U		62.		1.0	11.	
	0670	03/31/88	0001	AL	D		13.		1.0	7.	
	0670	10/09/88	0001	AL	D		12.		1.0	4.	
	0670	04/21/89	0001	AL	D		12.		1.0	5.	
	0671	03/31/88	0001	AL	D		40.		1.0	18.	
	0671	10/09/88	0001	AL	D		19.		1.0	5.	
	0671	04/21/89	0001	AL	D		25.		1.0	7.	
	0672	03/31/88	0001	AL	D		12.		1.0	5.	
0672	10/09/88	0001	AL	D	9.3		1.0	3.2			
0672	04/22/89	0001	AL	D	10.		1.0	4.			
IRON	0601	09/19/86	0001	AL	U	MG/L		1.14		0.03	-
	0602	09/18/87	0001	AL	D		2.09		0.03	-	
	0603	09/03/87	0001	AL	D		0.51		0.03	-	
	0603	04/06/89	0001	AL	D		0.45		0.03	-	
	0603	06/04/90	0001	AL	D		.20		0.03	-	
	0604	09/03/87	0001	AL	D		0.32		0.03	-	
	0607	09/19/86	0001	AL	D		0.15		0.03	-	
	0607	09/01/87	0001	AL	D		0.03		0.03	-	
	0608	09/18/86	0001	AL	D		0.15		0.03	-	
	0608	09/22/87	0001	AL	D		< 0.01		0.03	-	
	0608	04/03/89	0001	AL	D		0.16		0.03	-	
	0608	06/01/90	0001	AL	D		.19		0.03	-	
	0608	10/07/90	0001	AL	D		< 0.06	Ic	0.06	-	
	0609	09/17/86	0001	AL	D		0.13		0.03	-	
	0609	09/21/87	0001	AL	D		< 0.01		0.03	-	

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
APPENDIX B
SITE: SHP01 SHIPROCK
09/14/86 TO 01/08/91
REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY	
IRON	0610	09/18/86	0001	AL	D	MG/L	0.10		0.03	-	
	0610	09/21/87	0001	AL	D		<	0.01		0.03	-
	0610	04/03/89	0001	AL	D			0.14		0.03	-
	0610	06/01/90	0001	AL	D			.16		0.03	-
	0610	10/07/90	0001	AL	D		<	0.03		0.03	-
	0611	09/19/87	0001	AL	D			0.08		0.03	-
	0612	09/17/86	0001	AL	D			0.15		0.03	-
	0612	09/19/87	0001	AL	D		<	0.01		0.03	-
	0612	04/03/89	0001	AL	D			0.08		0.03	-
	0613	09/18/86	0001	AL	D			0.10		0.03	-
	0613	09/18/87	0001	AL	D		<	0.01		0.03	-
	0614	09/18/87	0001	AL	D		<	0.01		0.03	-
	0614	10/11/88	0001	AL	D			0.15		0.03	-
	0614	04/03/89	0001	AL	D			0.12		0.03	-
	0614	06/01/90	0001	AL	D			.16		0.03	-
	0614	10/07/90	0001	AL	D		<	0.03		0.03	-
	0615	09/18/87	0001	AL	D		<	0.01		0.03	-
	0615	04/03/89	0001	AL	D			0.16		0.03	-
	0615	06/01/90	0001	AL	D			.19		0.03	-
	0615	10/09/90	0001	AL	D		<	0.3	Ic	0.3	-
	0616	09/15/86	0001	AL	D			0.03		0.03	-
	0616	09/18/87	0001	AL	D		<	0.01		0.03	-
	0616	04/04/89	0001	AL	D			0.09		0.03	-
	0616	06/01/90	0001	AL	D			.10		0.03	-
	0616	10/09/90	0001	AL	D		<	0.03		0.03	-
	0617	09/18/87	0001	AL	D		<	0.01		0.03	-
	0617	04/04/89	0001	AL	D			0.09		0.03	-
	0617	06/01/90	0001	AL	D			.12		0.03	-
	0617	10/09/90	0001	AL	D		<	0.03		0.03	-
	0618	09/18/87	0001	AL	D		<	0.01		0.03	-
	0618	10/11/88	0001	AL	D			0.11		0.03	-
0619	09/19/87	0001	AL	D	<	0.01		0.03	-		
0619	04/05/89	0001	AL	D		0.17		0.03	-		
0619	06/01/90	0001	AL	D		.18		0.03	-		
0619	10/09/90	0001	AL	D	<	0.03		0.03	-		
0620	09/16/86	0001	AL	D		0.21		0.03	-		
0620	08/30/87	0001	AL	D	<	0.01		0.03	-		
0620	04/05/89	0001	AL	D		0.14		0.03	-		
0620	06/01/90	0001	AL	D		.15		0.03	-		

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
IRON	0621	09/15/86	0001	AL	D	MG/L		0.20		0.03	-
	0621	09/01/87	0001	AL	D		<	0.01		0.03	-
	0622	09/16/86	0001	AL	D			0.20		0.03	-
	0622	09/01/87	0001	AL	D		<	0.01		0.03	-
	0623	09/01/87	0001	AL	D		<	0.01		0.03	-
	0624	09/18/86	0001	AL	D			0.16		0.03	-
	0624	09/01/87	0001	AL	D		<	0.01		0.03	-
	0624	04/04/89	0001	AL	D			1.01		0.03	-
	0624	10/09/90	0001	AL	D		<	0.03		0.03	-
	0625	09/03/87	0001	AL	D		<	0.01		0.03	-
	0626	09/01/87	0001	AL	D		<	0.01		0.03	-
	0626	04/05/89	0001	AL	D			0.10		0.03	-
	0626	06/04/90	0001	AL	D			.09		0.03	-
	0626	10/11/90	0001	AL	D		<	0.03		0.03	-
	0627	09/14/86	0001	AL	D			0.10		0.03	-
	0627	09/16/87	0001	AL	D		<	0.01		0.03	-
	0628	09/16/87	0001	AL	D		<	0.01		0.03	-
	0628	04/05/89	0001	AL	D			0.08		0.03	-
	0628	06/04/90	0001	AL	D			.09		0.03	-
	0628	10/11/90	0001	AL	D			0.11		0.03	-
	0629	08/30/87	0001	AL	D		<	0.01		0.03	-
	0629	04/18/89	0001	AL	D			0.07		0.03	-
	0630	09/15/86	0001	AL	D			0.06		0.03	-
	0630	08/30/87	0001	AL	D		<	0.01		0.03	-
	0630	06/04/90	0001	AL	D			.08		0.03	-
	0630	10/10/90	0001	AL	D		<	0.03		0.03	-
	0631	09/20/86	0001	AL	D			0.60		0.03	-
	0631	08/30/87	0001	AL	D			0.85		0.03	-
	0632	09/20/86	0001	AL	D			0.70		0.03	-
	0632	09/01/87	0001	AL	D			0.17		0.03	-
	0632	11/12/87	0001	AL	D			0.66		0.03	-
	0633	04/19/89	0001	AL	D			0.08		0.03	-
	0638	03/19/87	0001	AL	D			0.34		0.03	-
	0638	05/14/87	0001	AL	D			1.93		0.03	-
	0638	09/25/87	0001	AL	D			0.01	c	0.01	-
	0638	10/09/88	0001	AL	D			4.20		0.03	-
	0638	04/20/89	0001	AL	D			7.08		0.03	-
	0639	03/19/87	0001	AL	D			0.09		0.03	-
	0639	05/14/87	0001	AL	D			0.23		0.03	-
	0639	09/25/87	0001	AL	D			3.80		0.03	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY	
IRON	0639	10/09/88	0001	AL	D	MG/L		11.7		0.03	-	
	0639	04/20/89	0001	AL	D				27.0		0.03	-
	0640	03/19/87	0001	AL	D				0.11		0.03	-
	0640	09/24/87	0001	AL	D			<	0.01		0.03	-
	0640	04/19/89	0001	AL	D				2.52		0.03	-
	0641	03/18/87	0001	AL	D				0.18		0.03	-
	0641	05/14/87	0001	AL	D				0.19		0.03	-
	0641	09/24/87	0001	AL	D			<	0.01		0.03	-
	0641	10/09/88	0001	AL	D				0.25		0.03	-
	0641	04/18/89	0001	AL	D				2.19		0.03	-
	0642	03/19/87	0001	AL	D				0.12		0.03	-
	0642	05/20/87	0001	AL	D				0.13		0.03	-
	0642	09/23/87	0001	AL	D			<	0.01		0.03	-
	0642	04/18/89	0001	AL	D				0.68		0.03	-
	0643	03/19/87	0001	AL	D				0.37		0.03	-
	0643	09/24/87	0001	AL	D				0.02	c	0.02	-
	0643	04/18/89	0001	AL	D				89.0		0.03	-
	0644	03/18/87	0001	AL	D				0.24		0.03	-
	0644	05/20/87	0001	AL	D				0.23		0.03	-
	0644	09/23/87	0001	AL	D				0.02	c	0.02	-
	0644	10/09/88	0001	AL	D				0.58		0.03	-
	0645	03/17/87	0001	AL	U			<	0.03		0.03	-
	0645	05/16/87	0001	AL	U				0.03		0.03	-
	0645	09/23/87	0001	AL	U				0.14		0.03	-
	0645	04/02/89	0001	AL	U				0.35		0.03	-
	0646	03/18/87	0001	AL	U			<	0.03		0.03	-
	0646	05/16/87	0001	AL	U				0.05		0.03	-
	0646	09/22/87	0001	AL	U				0.02	c	0.02	-
	0646	10/09/88	0001	AL	U				0.11		0.03	-
	0646	04/02/89	0001	AL	U				5.89		0.03	-
	0647	03/18/87	0001	AL	U				0.04		0.03	-
0647	05/17/87	0001	AL	U			0.04		0.03	-		
0647	09/20/87	0001	AL	U			0.04		0.03	-		
0647	04/02/89	0001	AL	U			5.49		0.03	-		
0670	10/09/88	0001	AL	D			0.61		0.03	-		
0670	04/21/89	0001	AL	D			1.07		0.03	-		
0671	10/09/88	0001	AL	D			2.02		0.03	-		
0671	04/21/89	0001	AL	D			1.66		0.03	-		
0672	10/09/88	0001	AL	D			3.88		0.03	-		

B-62

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER		DETECTION LIMIT	PARAMETER UNCERTAINTY	
							PVI	VALUE			
IRON	0672	04/22/89	0001	AL	D	MG/L		5.78	0.03	-	
LEAD	0601	09/19/86	0001	AL	U	MG/L	<	0.01	0.01	-	
	0602	09/18/87	0001	AL	D				0.01	0.01	-
	0603	09/03/87	0001	AL	D				0.03	0.01	-
	0603	04/06/89	0001	AL	D				0.02	0.01	-
	0603	06/04/90	0001	AL	D		<		.01	0.01	-
	0604	09/03/87	0001	AL	D				0.03	0.01	-
	0607	09/19/86	0001	AL	D		<		0.01	0.01	-
	0607	09/01/87	0001	AL	D				0.05	0.01	-
	0608	09/18/86	0001	AL	D		<		0.01	0.01	-
	0608	09/22/87	0001	AL	D				0.03	0.01	-
	0608	04/03/89	0001	AL	D		<		0.01	0.01	-
	0608	06/01/90	0001	AL	D		<		.01	0.01	-
	0608	10/07/90	0001	AL	D		<		0.05	0.05	-
	0609	09/17/86	0001	AL	D		<		0.01	0.01	-
	0609	09/21/87	0001	AL	D				0.03	0.01	-
	0610	09/18/86	0001	AL	D		<		0.01	0.01	-
	0610	09/21/87	0001	AL	D				0.01	0.01	-
	0610	04/03/89	0001	AL	D		<		0.01	0.01	-
	0610	06/01/90	0001	AL	D		<		.01	0.01	-
	0610	10/07/90	0001	AL	D		<		0.01	0.01	-
	0611	09/19/87	0001	AL	D				0.02	0.01	-
	0612	09/17/86	0001	AL	D		<		0.01	0.01	-
	0612	09/19/87	0001	AL	D		<		0.01	0.01	-
	0612	04/03/89	0001	AL	D		<		0.01	0.01	-
	0613	09/18/86	0001	AL	D		<		0.01	0.01	-
	0613	09/18/87	0001	AL	D				0.03	0.01	-
	0614	09/18/87	0001	AL	D				0.01	0.01	-
	0614	10/11/88	0001	AL	D		<		0.01	0.01	-
	0614	04/03/89	0001	AL	D		<		0.01	0.01	-
	0614	06/01/90	0001	AL	D		<		.01	0.01	-
	0614	10/07/90	0001	AL	D		<		0.01	0.01	-
	0615	09/18/87	0001	AL	D				0.03	0.01	-
0615	04/03/89	0001	AL	D	<		0.01	0.01	-		
0615	06/01/90	0001	AL	D	<		.01	0.01	-		
0615	10/09/90	0001	AL	D	<		0.05	0.05	-		
0616	09/15/86	0001	AL	D	<		0.01	0.01	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY	
LEAD	0616	09/18/87	0001	AL	D	MG/L		0.01		0.01	-	
	0616	04/04/89	0001	AL	D		<	0.01		0.01	-	
	0616	06/01/90	0001	AL	D		<	.01		0.01	-	
	0616	10/09/90	0001	AL	D		<	0.01		0.01	-	
	0617	09/18/87	0001	AL	D				0.03		0.01	-
	0617	04/04/89	0001	AL	D		<	0.01		0.01	-	
	0617	06/01/90	0001	AL	D		<	.01		0.01	-	
	0617	10/09/90	0001	AL	D		<	0.01		0.01	-	
	0618	09/18/87	0001	AL	D				0.01		0.01	-
	0618	10/11/88	0001	AL	D		<	0.01		0.01	-	
	0619	09/19/87	0001	AL	D				0.03		0.01	-
	0619	04/05/89	0001	AL	D				0.02		0.01	-
	0619	06/01/90	0001	AL	D		<	.01		0.01	-	
	0619	10/09/90	0001	AL	D		<	0.01		0.01	-	
	0620	09/16/86	0001	AL	D		<	0.01		0.01	-	
	0620	08/30/87	0001	AL	D				0.04		0.01	-
	0620	04/05/89	0001	AL	D		<	0.01		0.01	-	
	0620	06/01/90	0001	AL	D		<	.01		0.01	-	
	0621	09/15/86	0001	AL	D		<	0.01		0.01	-	
	0621	09/01/87	0001	AL	D				0.03		0.01	-
	0622	09/16/86	0001	AL	D		<	0.01		0.01	-	
	0622	09/01/87	0001	AL	D				0.03		0.01	-
	0623	09/01/87	0001	AL	D				0.03		0.01	-
	0624	09/18/86	0001	AL	D		<	0.01		0.01	-	
	0624	09/01/87	0001	AL	D				0.03		0.01	-
	0624	04/04/89	0001	AL	D				0.02		0.01	-
	0624	10/09/90	0001	AL	D		<	0.01		0.01	-	
	0625	09/03/87	0001	AL	D				0.03		0.01	-
	0626	09/01/87	0001	AL	D				0.03		0.01	-
	0626	04/05/89	0001	AL	D		<	0.01		0.01	-	
0626	06/04/90	0001	AL	D	<	.01		0.01	-			
0626	10/11/90	0001	AL	D	<	0.01		0.01	-			
0627	09/14/86	0001	AL	D	<	0.01		0.01	-			
0627	09/16/87	0001	AL	D			0.01		0.01	-		
0628	09/16/87	0001	AL	D			0.01		0.01	-		
0628	04/05/89	0001	AL	D	<	0.01		0.01	-			
0628	06/04/90	0001	AL	D	<	.01		0.01	-			
0628	10/11/90	0001	AL	D	<	0.01		0.01	-			
0629	08/30/87	0001	AL	D	<	0.01		0.01	-			
0629	04/18/89	0001	AL	D	<	0.01		0.01	-			
0630	09/15/86	0001	AL	D	<	0.01		0.01	-			

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 - SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
LEAD	0630	08/30/87	0001	AL	D	MG/L	<	0.01		0.01	-
	0630	06/04/90	0001	AL	D		<	.01		0.01	-
	0630	10/10/90	0001	AL	D		<	0.01		0.01	-
	0631	09/20/86	0001	AL	D		<	0.01		0.01	-
	0631	08/30/87	0001	AL	D		<	0.01		0.01	-
	0632	09/20/86	0001	AL	D		<	0.01		0.01	-
	0632	09/01/87	0001	AL	D		<	0.01		0.01	-
	0632	11/12/87	0001	AL	D		<	0.02		0.01	-
	0633	04/19/89	0001	AL	D		<	0.01		0.01	-
	0638	03/19/87	0001	AL	D		<	0.001		0.01	-
	0638	05/14/87	0001	AL	D			0.06		0.01	-
	0638	09/25/87	0001	AL	D		<	0.01		0.01	-
	0638	10/09/88	0001	AL	D		<	0.01		0.01	-
	0638	04/20/89	0001	AL	D		<	0.01		0.01	-
	0639	03/19/87	0001	AL	D		<	0.001		0.01	-
	0639	05/14/87	0001	AL	D			0.14		0.01	-
	0639	09/25/87	0001	AL	D		<	0.01		0.01	-
	0639	10/09/88	0001	AL	D		<	0.01		0.01	-
	0639	04/20/89	0001	AL	D		<	0.01		0.01	-
	0640	03/19/87	0001	AL	D		<	0.001		0.01	-
	0640	09/24/87	0001	AL	D		<	0.01		0.01	-
	0640	04/19/89	0001	AL	D		<	0.01		0.01	-
	0641	03/18/87	0001	AL	D			0.003	c	0.003	-
	0641	05/14/87	0001	AL	D			0.48		0.01	-
	0641	09/24/87	0001	AL	D			0.03		0.01	-
	0641	10/09/88	0001	AL	D			0.10		0.01	-
	0641	04/18/89	0001	AL	D			0.01		0.01	-
	0642	03/19/87	0001	AL	D		<	0.001		0.01	-
	0642	05/20/87	0001	AL	D			0.31		0.01	-
	0642	09/23/87	0001	AL	D			0.04		0.01	-
	0642	04/18/89	0001	AL	D		<	0.01		0.01	-
	0643	03/19/87	0001	AL	D		<	0.001		0.01	-
0643	09/24/87	0001	AL	D		0.03		0.01	-		
0643	04/18/89	0001	AL	D	<	0.01		0.01	-		
0644	03/18/87	0001	AL	D	<	0.001		0.01	-		
0644	05/20/87	0001	AL	D		0.76		0.01	-		
0644	09/23/87	0001	AL	D		0.04		0.01	-		
0644	10/09/88	0001	AL	D		0.02		0.01	-		
0645	03/17/87	0001	AL	U	<	0.001		0.01	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
LEAD	0645	05/16/87	0001	AL	U	MG/L	0.03		0.01	-
	0645	09/23/87	0001	AL	U		< 0.01		0.01	-
	0645	04/02/89	0001	AL	U		< 0.01		0.01	-
	0646	03/18/87	0001	AL	U		< 0.001		0.01	-
	0646	05/16/87	0001	AL	U		0.06		0.01	-
	0646	09/22/87	0001	AL	U		< 0.01		0.01	-
	0646	10/09/88	0001	AL	U		< 0.01		0.01	-
	0646	04/02/89	0001	AL	U		< 0.01		0.01	-
	0647	03/18/87	0001	AL	U		< 0.001		0.01	-
	0647	05/17/87	0001	AL	U		0.02		0.01	-
	0647	09/20/87	0001	AL	U		< 0.01		0.01	-
	0647	04/02/89	0001	AL	U		< 0.01		0.01	-
	0670	10/09/88	0001	AL	D		< 0.01		0.01	-
	0670	04/21/89	0001	AL	D		< 0.01		0.01	-
	0671	10/09/88	0001	AL	D		0.01		0.01	-
	0671	04/21/89	0001	AL	D		< 0.01		0.01	-
	0672	04/22/89	0001	AL	D		< 0.01		0.01	-
	LEAD-210	0601	09/19/86	0001	AL	U	PCI/L	< 0.9	b	1.5
0603		04/06/89	0001	AL	D		6.1		1.5	1.4
0607		09/19/86	0001	AL	D		1.3		1.5	1.1
0608		09/18/86	0001	AL	D		7.9		1.5	0.8
0608		04/03/89	0001	AL	D		1.2		1.5	1.2
0609		09/17/86	0001	AL	D		7.1		1.5	0.8
0610		09/18/86	0001	AL	D		8.5		1.5	1.0
0610		04/03/89	0001	AL	D		0.3	c	0.90000	0.6
0612		09/17/86	0001	AL	D		1.4		1.5	0.7
0612		04/03/89	0001	AL	D		0.6	c	1.30000	0.7
0613		09/18/86	0001	AL	D		4.3		1.5	1.2
0614		04/03/89	0001	AL	D		0.1	c	0.70000	0.6
0615		04/03/89	0001	AL	D		1.1		1.5	0.7
0616		09/15/86	0001	AL	D		5.2		1.5	2.1
0616		04/04/89	0001	AL	D		< 0.7	b	1.5	0.7
0617		04/04/89	0001	AL	D		0.6	c	1.40000	0.8
0619		04/05/89	0001	AL	D		1.8		1.5	0.7
0620		09/16/86	0001	AL	D		2.8		1.5	1.2
0620		04/05/89	0001	AL	D		0.3		1.5	1.3
0621		09/15/86	0001	AL	D		3.9		1.5	1.3

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 U - UPGRADIENT
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: b - CHANGED PARAMETER VALUE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

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	0622	09/16/86	0001	AL	D	PCI/L		3.4		1.5	1.3
	0624	09/18/86	0001	AL	D			2.7		1.5	1.5
	0624	04/04/89	0001	AL	D			0.9		1.5	1.3
	0626	04/05/89	0001	AL	D			0.8	c	1.40000	0.6
	0627	09/14/86	0001	AL	D			1.7		1.5	2.1
	0628	04/05/89	0001	AL	D		<	0.5	b	1.5	0.5
	0629	08/30/87	0001	AL	D			0.7		1.5	0.9
	0629	04/18/89	0001	AL	D			0.5	c	1.10000	0.6
	0630	09/15/86	0001	AL	D		<	2.1	b	1.5	2.1
	0630	08/30/87	0001	AL	D			1.5		1.5	1.0
	0631	09/20/86	0001	AL	D			1.5		1.5	1.0
	0631	08/30/87	0001	AL	D			0.7		1.5	0.9
	0632	09/20/86	0001	AL	D			0.2	c	1.10000	0.9
	0632	09/01/87	0001	AL	D			0.5		1.5	1.0
	0632	11/12/87	0001	AL	D		<	1.2	b	1.5	1.2
	0633	04/19/89	0001	AL	D		<	0.6	b	1.5	0.6
	0638	03/19/87	0001	AL	D			4.3		1.5	1.0
	0638	05/14/87	0001	AL	D			1.0		1.5	0.6
	0638	09/25/87	0001	AL	D		<	1.0	b	1.5	1.0
	0638	04/20/89	0001	AL	D			0.1	c	0.80000	0.7
	0639	03/19/87	0001	AL	D			1.5		1.5	1.3
	0639	05/14/87	0001	AL	D			1.0		1.5	0.6
	0639	09/25/87	0001	AL	D			2.3		1.5	1.1
	0639	04/20/89	0001	AL	D			1.1		1.5	1.2
	0640	03/19/87	0001	AL	D			1.3		1.5	1.3
	0640	09/24/87	0001	AL	D		<	1.3	b	1.5	1.3
	0640	04/19/89	0001	AL	D		<	0.6	b	1.5	0.6
	0641	03/18/87	0001	AL	D			4.3		1.5	1.4
	0641	05/14/87	0001	AL	D			3.2		1.5	1.2
	0641	09/24/87	0001	AL	D			0.8		1.5	1.1
	0641	04/18/89	0001	AL	D			1.0		1.5	0.6
	0642	03/19/87	0001	AL	D			3.3		1.5	1.4
	0642	05/20/87	0001	AL	D			1.1		1.5	0.7
	0642	09/23/87	0001	AL	D			1.1		1.5	1.1
	0642	04/18/89	0001	AL	D			0.2	c	0.80000	0.6
	0643	03/19/87	0001	AL	D			21.		1.5	2.
	0643	09/24/87	0001	AL	D			1.7		1.5	1.3
	0643	04/18/89	0001	AL	D			1.2		1.5	1.3
	0644	03/18/87	0001	AL	D			12.		1.5	2.

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: b - CHANGED PARAMETER VALUE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY	
LEAD-210	0644	05/20/87	0001	AL	D	PCI/L		2.6		1.5	0.7	
	0644	09/23/87	0001	AL	D			1.3		1.5	1.0	
	0645	03/17/87	0001	AL	U				1.2		1.5	1.4
	0645	05/16/87	0001	AL	U				1.5		1.5	0.6
	0645	09/23/87	0001	AL	U				1.5		1.5	1.1
	0645	04/02/89	0001	AL	U				0.3	c	1.00000	0.7
	0646	03/18/87	0001	AL	U				1.3		1.5	1.1
	0646	05/16/87	0001	AL	U				1.0		1.5	0.7
	0646	09/22/87	0001	AL	U				1.0		1.5	1.1
	0646	04/02/89	0001	AL	U				1.6		1.5	0.8
	0647	03/18/87	0001	AL	U			<	2.1	b	1.5	2.1
	0647	05/17/87	0001	AL	U				1.1		1.5	1.2
	0647	09/20/87	0001	AL	U				0.4	c	1.40000	1.0
	0647	04/02/89	0001	AL	U				0.1	c	0.90000	0.8
	0670	03/31/88	0001	AL	D			<	1.1	b	1.5	1.1
	0670	04/21/89	0001	AL	D			<	0.7	b	1.5	0.7
	0671	03/31/88	0001	AL	D				0.4		1.5	1.2
	0671	04/21/89	0001	AL	D				0.2	c	0.90000	0.7
	0672	03/31/88	0001	AL	D				0.6		1.5	1.1
	0672	04/22/89	0001	AL	D			<	0.7	b	1.5	0.7
MAGNESIUM	0601	09/19/86	0001	AL	U	MG/L		18.4		0.001	-	
	0602	09/18/87	0001	AL	D				295.		0.001	-
	0603	09/03/87	0001	AL	D				2487.		0.001	-
	0603	04/06/89	0001	AL	D				1650.		0.001	-
	0603	06/04/90	0001	AL	D				2690.		0.001	-
	0604	09/03/87	0001	AL	D				344.		0.001	-
	0607	09/19/86	0001	AL	D				467.0		0.001	-
	0607	09/01/87	0001	AL	D				1849.		0.001	-
	0608	09/18/86	0001	AL	D				1580.0		0.001	-
	0608	09/22/87	0001	AL	D				2319.		0.001	-
	0608	04/03/89	0001	AL	D				2350.		0.001	-
	0608	06/01/90	0001	AL	D				2330.		0.001	-
	0608	10/07/90	0001	AL	D				2620.		0.001	-
	0609	09/17/86	0001	AL	D				1550.0		0.001	-
	0609	09/21/87	0001	AL	D				2479.		0.001	-
	0610	09/18/86	0001	AL	D				1100.0		0.001	-
	0610	09/21/87	0001	AL	D				1173.		0.001	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS:
 b - CHANGED PARAMETER VALUE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

B-59

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MAGNESIUM	0610	04/03/89	0001	AL	D	MG/L		1300.		0.001	-
	0610	06/01/90	0001	AL	D			1510.		0.001	-
	0610	10/07/90	0001	AL	D			1550.		0.001	-
	0611	09/19/87	0001	AL	D			722.		0.001	-
	0612	09/17/86	0001	AL	D			85.2		0.001	-
	0612	09/19/87	0001	AL	D			75.6		0.001	-
	0612	04/03/89	0001	AL	D			75.0		0.001	-
	0613	09/18/86	0001	AL	D			1250.0		0.001	-
	0613	09/18/87	0001	AL	D			1021.		0.001	-
	0614	09/18/87	0001	AL	D			962.		0.001	-
	0614	10/11/88	0001	AL	D			1136.		0.001	-
	0614	04/03/89	0001	AL	D			974.		0.001	-
	0614	06/01/90	0001	AL	D			1140.		0.001	-
	0614	10/07/90	0001	AL	D			1420.		0.001	-
	0615	09/18/87	0001	AL	D			1252.		0.001	-
	0615	04/03/89	0001	AL	D			1370.		0.001	-
	0615	06/01/90	0001	AL	D			2440.		0.001	-
	0615	10/09/90	0001	AL	D			2540.		0.001	-
	0616	09/15/86	0001	AL	D			86.7		0.001	-
	0616	09/18/87	0001	AL	D			138.		0.001	-
	0616	04/04/89	0001	AL	D			286.		0.001	-
	0616	06/01/90	0001	AL	D			307.		0.001	-
	0616	10/09/90	0001	AL	D			296.		0.001	-
	0617	09/18/87	0001	AL	D			504.		0.001	-
	0617	04/04/89	0001	AL	D			467.		0.001	-
	0617	06/01/90	0001	AL	D			492.		0.001	-
	0617	10/09/90	0001	AL	D			560.		0.01	-
	0618	09/18/87	0001	AL	D			461.		0.001	-
	0618	10/11/88	0001	AL	D			424.		0.001	-
	0619	09/19/87	0001	AL	D			1859.		0.001	-
	0619	04/05/89	0001	AL	D			2210.		0.001	-
	0619	06/01/90	0001	AL	D			2090.		0.001	-
	0619	10/09/90	0001	AL	D			1610.		0.01	-
	0620	09/16/86	0001	AL	D			1980.0		0.001	-
	0620	08/30/87	0001	AL	D			1980.		0.001	-
	0620	04/05/89	0001	AL	D			1480.		0.001	-
	0620	06/01/90	0001	AL	D			1060.		0.001	-
	0621	09/15/86	0001	AL	D			1890.0		0.001	-
	0621	09/01/87	0001	AL	D			2142.		0.001	-
	0622	09/16/86	0001	AL	D			1570.0		0.001	-
	0622	09/01/87	0001	AL	D			2305.		0.001	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MAGNESIUM	0623	09/01/87	0001	AL	D	MG/L	1709.		0.001	-
	0624	09/18/86	0001	AL	D		1580.0		0.001	-
	0624	09/01/87	0001	AL	D		1853.		0.001	-
	0624	04/04/89	0001	AL	D		1930.		0.001	-
	0624	10/09/90	0001	AL	D		1040.		0.001	-
	0625	09/03/87	0001	AL	D		1736.		0.001	-
	0626	09/01/87	0001	AL	D		906.		0.001	-
	0626	04/05/89	0001	AL	D		527.		0.001	-
	0626	06/04/90	0001	AL	D		327.		0.001	-
	0626	10/11/90	0001	AL	D		268.		0.001	-
	0627	09/14/86	0001	AL	D		696.0		0.001	-
	0627	09/16/87	0001	AL	D		436.		0.001	-
	0628	09/16/87	0001	AL	D		493.		0.001	-
	0628	04/05/89	0001	AL	D		232.		0.001	-
	0628	06/04/90	0001	AL	D		174.		0.001	-
	0628	10/11/90	0001	AL	D		163.		0.001	-
	0629	08/30/87	0001	AL	D		83.7		0.001	-
	0629	04/18/89	0001	AL	D		80.7		0.001	-
	0630	09/15/86	0001	AL	D		181.0		0.001	-
	0630	08/30/87	0001	AL	D		91.7		0.001	-
	0630	06/04/90	0001	AL	D		95.2		0.001	-
	0630	10/10/90	0001	AL	D		82.2		0.01	-
	0631	09/20/86	0001	AL	D		300.0		0.001	-
	0631	08/30/87	0001	AL	D		242.		0.001	-
	0632	09/20/86	0001	AL	D		260.0		0.001	-
	0632	09/01/87	0001	AL	D		249.		0.001	-
	0632	11/12/87	0001	AL	D		264.		0.001	-
	0633	04/19/89	0001	AL	D		35.9		0.001	-
	0638	03/19/87	0001	AL	D		85.4		0.001	-
	0638	05/14/87	0001	AL	D		43.2		0.001	-
	0638	09/25/87	0001	AL	D		19.3		0.001	-
	0638	10/09/88	0001	AL	D		27.0		0.001	-
	0638	04/20/89	0001	AL	D		33.6		0.001	-
	0639	03/19/87	0001	AL	D		319.		0.001	-
	0639	05/14/87	0001	AL	D		143.		0.001	-
	0639	09/25/87	0001	AL	D		267.		0.001	-
	0639	10/09/88	0001	AL	D		384.		0.001	-
	0639	04/20/89	0001	AL	D		318.		0.001	-
	0640	03/19/87	0001	AL	D		758.		0.001	-
	0640	09/24/87	0001	AL	D		680.		0.001	-
0640	04/19/89	0001	AL	D		501.		0.001	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MAGNESIUM	0641	03/18/87	0001	AL	D	MG/L	1850.		0.001	-
	0641	05/14/87	0001	AL	D		1190.		0.001	-
	0641	09/24/87	0001	AL	D		1353.		0.001	-
	0641	10/09/88	0001	AL	D		2510.		0.001	-
	0641	04/18/89	0001	AL	D		1100.		0.001	-
	0642	03/19/87	0001	AL	D		1280.		0.001	-
	0642	05/20/87	0001	AL	D		499.		0.001	-
	0642	09/23/87	0001	AL	D		2083.		0.001	-
	0642	04/18/89	0001	AL	D		1780.		0.001	-
	0643	03/19/87	0001	AL	D		3730.		0.001	-
	0643	09/24/87	0001	AL	D		3153.		0.001	-
	0643	04/18/89	0001	AL	D		1700.		0.001	-
	0644	03/18/87	0001	AL	D		3000.		0.001	-
	0644	05/20/87	0001	AL	D		3050.		0.001	-
	0644	09/23/87	0001	AL	D		3253.		0.001	-
	0644	10/09/88	0001	AL	D		2046.		0.001	-
	0645	03/17/87	0001	AL	U		25.9		0.001	-
	0645	05/16/87	0001	AL	U		21.4		0.001	-
	0645	09/23/87	0001	AL	U		16.6		0.001	-
	0645	04/02/89	0001	AL	U		126.		0.001	-
	0646	03/18/87	0001	AL	U		65.1		0.001	-
	0646	05/16/87	0001	AL	U		63.5		0.001	-
	0646	09/22/87	0001	AL	U		53.8		0.001	-
	0646	10/09/88	0001	AL	U		116.		0.001	-
	0646	04/02/89	0001	AL	U		36.9		0.001	-
	0647	03/18/87	0001	AL	U		124.		0.001	-
	0647	05/17/87	0001	AL	U		20.5		0.001	-
	0647	09/20/87	0001	AL	U		16.7		0.001	-
	0647	04/02/89	0001	AL	U		167.		0.001	-
	0670	01/20/88	0001	AL	D		117.		0.001	-
	0670	03/31/88	0001	AL	D		94.2		0.001	-
	0670	05/17/88	0001	AL	D		84.6		0.001	-
	0670	10/09/88	0001	AL	D		66.4		0.001	-
0670	04/21/89	0001	AL	D	76.9		0.001	-		
0671	01/20/88	0001	AL	D	217.		0.001	-		
0671	03/31/88	0001	AL	D	137.		0.001	-		
0671	05/17/88	0001	AL	D	114.		0.001	-		
0671	10/09/88	0001	AL	D	80.3		0.001	-		
0671	04/21/89	0001	AL	D	108.		0.001	-		
0672	01/20/88	0001	AL	D	154.		0.001	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MAGNESIUM	0672	03/31/88	0001	AL	D	MG/L		56.8		0.001	-
	0672	05/17/88	0001	AL	D			72.6		0.001	-
	0672	10/09/88	0001	AL	D			46.2		0.001	-
	0672	04/22/89	0001	AL	D			53.8		0.001	-
MANGANESE	0601	09/19/86	0001	AL	U	MG/L		0.33		0.01	-
	0602	09/18/87	0001	AL	D			2.36		0.01	-
	0603	09/03/87	0001	AL	D			5.73		0.01	-
	0603	04/06/89	0001	AL	D			1.27		0.01	-
	0603	06/04/90	0001	AL	D			68.8		0.01	-
	0604	09/03/87	0001	AL	D			1.91		0.01	-
	0607	09/19/86	0001	AL	D			1.42		0.01	-
	0607	09/01/87	0001	AL	D			3.10		0.01	-
	0608	09/18/86	0001	AL	D			4.84		0.01	-
	0608	09/22/87	0001	AL	D			6.62		0.01	-
	0608	04/03/89	0001	AL	D			7.16		0.01	-
	0608	06/01/90	0001	AL	D			7.17		0.01	-
	0608	10/07/90	0001	AL	D			9.22		0.01	-
	0609	09/17/86	0001	AL	D			7.18		0.01	-
	0609	09/21/87	0001	AL	D			8.04		0.01	-
	0610	09/18/86	0001	AL	D			1.53		0.01	-
	0610	09/21/87	0001	AL	D			2.27		0.01	-
	0610	04/03/89	0001	AL	D			2.42		0.01	-
	0610	06/01/90	0001	AL	D			2.53		0.01	-
	0610	10/07/90	0001	AL	D			2.78		0.01	-
	0611	09/19/87	0001	AL	D			1.72		0.01	-
	0612	09/17/86	0001	AL	D			3.39		0.01	-
	0612	09/19/87	0001	AL	D			3.50		0.01	-
	0612	04/03/89	0001	AL	D			0.41		0.01	-
	0613	09/18/86	0001	AL	D			2.61		0.01	-
	0613	09/18/87	0001	AL	D			4.82		0.01	-
	0614	09/18/87	0001	AL	D			4.17		0.01	-
	0614	04/03/89	0001	AL	D			3.51		0.01	-
	0614	06/01/90	0001	AL	D			4.53		0.01	-
	0614	10/07/90	0001	AL	D			6.0		0.01	-
	0615	09/18/87	0001	AL	D			5.81		0.01	-
	0615	04/03/89	0001	AL	D			9.38		0.01	-
0615	06/01/90	0001	AL	D			8.08		0.01	-	
0615	10/09/90	0001	AL	D			6.94		0.01	-	
0616	09/15/86	0001	AL	D			0.92		0.01	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER		DETECTION LIMIT	PARAMETER UNCERTAINTY
							PVI	VALUE		
MANGANESE	0616	09/18/87	0001	AL	D	MG/L		1.93	0.01	-
	0616	04/04/89	0001	AL	D		3.34	0.01	-	
	0616	06/01/90	0001	AL	D		4.46	0.01	-	
	0616	10/09/90	0001	AL	D		5.00	0.01	-	
	0617	09/18/87	0001	AL	D		5.92	0.01	-	
	0617	04/04/89	0001	AL	D		5.12	0.01	-	
	0617	06/01/90	0001	AL	D		5.14	0.01	-	
	0617	10/09/90	0001	AL	D		4.49	0.01	-	
	0618	09/18/87	0001	AL	D		5.97	0.01	-	
	0619	09/19/87	0001	AL	D		8.33	0.01	-	
	0619	04/05/89	0001	AL	D		8.65	0.01	-	
	0619	06/01/90	0001	AL	D		6.72	0.01	-	
	0619	10/09/90	0001	AL	D		3.67	0.01	-	
	0620	09/16/86	0001	AL	D		8.80	0.01	-	
	0620	08/30/87	0001	AL	D		6.53	0.01	-	
	0620	04/05/89	0001	AL	D		3.45	0.01	-	
	0620	06/01/90	0001	AL	D		2.46	0.01	-	
	0621	09/15/86	0001	AL	D		5.21	0.01	-	
	0621	09/01/87	0001	AL	D		7.04	0.01	-	
	0622	09/16/86	0001	AL	D		3.71	0.01	-	
	0622	09/01/87	0001	AL	D		4.37	0.01	-	
	0623	09/01/87	0001	AL	D		7.98	0.01	-	
	0624	09/18/86	0001	AL	D		8.85	0.01	-	
	0624	09/01/87	0001	AL	D		8.11	0.01	-	
	0624	04/04/89	0001	AL	D		7.44	0.01	-	
	0624	10/09/90	0001	AL	D		6.10	0.01	-	
	0625	09/03/87	0001	AL	D		7.40	0.01	-	
	0626	09/01/87	0001	AL	D		4.01	0.01	-	
	0626	04/05/89	0001	AL	D		2.08	0.01	-	
	0626	06/04/90	0001	AL	D		1.86	0.01	-	
0626	10/11/90	0001	AL	D	1.54	0.01	-			
0627	09/14/86	0001	AL	D	5.92	0.01	-			
0627	09/16/87	0001	AL	D	3.11	0.01	-			
0628	09/16/87	0001	AL	D	3.05	0.01	-			
0628	04/05/89	0001	AL	D	1.31	0.01	-			
0628	06/04/90	0001	AL	D	1.89	0.01	-			
0628	10/11/90	0001	AL	D	2.85	0.01	-			
0629	08/30/87	0001	AL	D	0.39	0.01	-			
0629	04/18/89	0001	AL	D	0.18	0.01	-			
0630	09/15/86	0001	AL	D	0.62	0.01	-			
0630	08/30/87	0001	AL	D	0.32	0.01	-			

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MANGANESE	0630	06/04/90	0001	AL	D	MG/L	.11		0.01	-
	0630	10/10/90	0001	AL	D		0.20		0.01	-
	0631	09/20/86	0001	AL	D		9.60		0.01	-
	0631	08/30/87	0001	AL	D		7.72		0.01	-
	0632	09/20/86	0001	AL	D		8.80		0.01	-
	0632	09/01/87	0001	AL	D		8.17		0.01	-
	0632	11/12/87	0001	AL	D		8.83		0.01	-
	0633	04/19/89	0001	AL	D		0.03		0.01	-
	0638	03/19/87	0001	AL	D		11.0		0.01	-
	0638	05/14/87	0001	AL	D		4.34		0.01	-
	0638	09/25/87	0001	AL	D		1.65		0.01	-
	0638	04/20/89	0001	AL	D		3.10		0.01	-
	0639	03/19/87	0001	AL	D		5.92		0.01	-
	0639	05/14/87	0001	AL	D		4.11		0.01	-
	0639	09/25/87	0001	AL	D		6.04		0.01	-
	0639	04/20/89	0001	AL	D		4.08		0.01	-
	0640	03/19/87	0001	AL	D		5.58		0.01	-
	0640	09/24/87	0001	AL	D		6.96		0.01	-
	0640	04/19/89	0001	AL	D		3.25		0.01	-
	0641	03/18/87	0001	AL	D		0.31		0.01	-
	0641	05/14/87	0001	AL	D		11.2		0.01	-
	0641	09/24/87	0001	AL	D		11.3		0.01	-
	0641	04/18/89	0001	AL	D		2.31		0.01	-
	0642	03/19/87	0001	AL	D		2.14		0.01	-
	0642	05/20/87	0001	AL	D		3.00		0.01	-
	0642	09/23/87	0001	AL	D		9.48		0.01	-
	0642	04/18/89	0001	AL	D		7.77		0.01	-
	0643	03/19/87	0001	AL	D		0.31		0.01	-
	0643	09/24/87	0001	AL	D		2.20		0.01	-
	0643	04/18/89	0001	AL	D		2.59		0.01	-
	0644	03/18/87	0001	AL	D		0.37		0.01	-
	0644	05/20/87	0001	AL	D		1.66		0.01	-
	0644	09/23/87	0001	AL	D		2.58		0.01	-
0645	03/17/87	0001	AL	U	1.41		0.01	-		
0645	05/16/87	0001	AL	U	1.20		0.01	-		
0645	09/23/87	0001	AL	U	1.09		0.01	-		
0645	04/02/89	0001	AL	U	2.59		0.01	-		
0646	03/18/87	0001	AL	U	1.34		0.01	-		
0646	05/16/87	0001	AL	U	2.49		0.01	-		
0646	09/22/87	0001	AL	U	0.63		0.01	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MANGANESE	0646	04/02/89	0001	AL	U	MG/L		1.14		0.01	-
	0647	03/18/87	0001	AL	U			1.59		0.01	-
	0647	05/17/87	0001	AL	U			0.67		0.01	-
	0647	09/20/87	0001	AL	U			0.32		0.01	-
	0647	04/02/89	0001	AL	U			1.22		0.01	-
	0670	04/21/89	0001	AL	D			3.89		0.01	-
	0671	04/21/89	0001	AL	D			2.11		0.01	-
	0672	04/22/89	0001	AL	D			2.19		0.01	-
MERCURY	0601	09/19/86	0001	AL	U	MG/L	<	0.0002		0.0002	-
	0602	09/18/87	0001	AL	D			0.0003		0.0002	-
	0603	09/03/87	0001	AL	D		<	0.0002		0.0002	-
	0603	04/06/89	0001	AL	D		<	0.0002		0.0002	-
	0603	06/04/90	0001	AL	D		<	.0002		0.0002	-
	0604	09/03/87	0001	AL	D		<	0.0002		0.0002	-
	0607	09/19/86	0001	AL	D		<	0.0002		0.0002	-
	0607	09/01/87	0001	AL	D		<	0.0002		0.0002	-
	0608	09/18/86	0001	AL	D		<	0.0002		0.0002	-
	0608	09/22/87	0001	AL	D		<	0.0002		0.0002	-
	0608	04/03/89	0001	AL	D		<	0.0002		0.0002	-
	0608	06/01/90	0001	AL	D		<	.0002		0.0002	-
	0608	10/07/90	0001	AL	D		<	0.0002		0.0002	-
	0609	09/17/86	0001	AL	D		<	0.0002		0.0002	-
	0609	09/21/87	0001	AL	D		<	0.0002		0.0002	-
	0610	09/18/86	0001	AL	D		<	0.0002		0.0002	-
	0610	09/21/87	0001	AL	D		<	0.0002		0.0002	-
	0610	04/03/89	0001	AL	D		<	0.0002		0.0002	-
	0610	06/01/90	0001	AL	D		<	.0002		0.0002	-
	0610	10/07/90	0001	AL	D		<	0.0002		0.0002	-
	0611	09/19/87	0001	AL	D		<	0.0002		0.0002	-
	0612	09/17/86	0001	AL	D		<	0.0002		0.0002	-
	0612	09/19/87	0001	AL	D		<	0.0002		0.0002	-
	0612	04/03/89	0001	AL	D		<	0.0002		0.0002	-
	0613	09/18/86	0001	AL	D		<	0.0002		0.0002	-
	0613	09/18/87	0001	AL	D		<	0.0002		0.0002	-
	0614	09/18/87	0001	AL	D		<	0.0002		0.0002	-
	0614	10/11/88	0001	AL	D		<	0.0003		0.0002	-
0614	04/03/89	0001	AL	D		<	0.0002		0.0002	-	
0614	06/01/90	0001	AL	D		<	.0002		0.0002	-	
0614	10/07/90	0001	AL	D		<	0.0002		0.0002	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 U - UPGRADIENT
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MERCURY	0615	09/18/87	0001	AL	D	MG/L	< 0.0002		0.0002	-
	0615	04/03/89	0001	AL	D		< 0.0002		0.0002	-
	0615	06/01/90	0001	AL	D		< .0002		0.0002	-
	0615	10/09/90	0001	AL	D		< 0.0002		0.0002	-
	0616	09/15/86	0001	AL	D		< 0.0002		0.0002	-
	0616	09/18/87	0001	AL	D		< 0.0002		0.0002	-
	0616	04/04/89	0001	AL	D		< 0.0002		0.0002	-
	0616	06/01/90	0001	AL	D		< .0002		0.0002	-
	0616	10/09/90	0001	AL	D		< 0.0002		0.0002	-
	0617	09/18/87	0001	AL	D		< 0.0002		0.0002	-
	0617	04/04/89	0001	AL	D		< 0.0002		0.0002	-
	0617	06/01/90	0001	AL	D		< .0002		0.0002	-
	0617	10/09/90	0001	AL	D		< 0.0002		0.0002	-
	0618	09/18/87	0001	AL	D		< 0.0002		0.0002	-
	0618	10/11/88	0001	AL	D		< 0.0002		0.0002	-
	0619	09/19/87	0001	AL	D		< 0.0002		0.0002	-
	0619	04/05/89	0001	AL	D		< 0.0002		0.0002	-
	0619	06/01/90	0001	AL	D		< .0002		0.0002	-
	0619	10/09/90	0001	AL	D		< 0.0002		0.0002	-
	0620	09/16/86	0001	AL	D		< 0.0002		0.0002	-
	0620	08/30/87	0001	AL	D		< 0.0003		0.0002	-
	0620	04/05/89	0001	AL	D		< 0.0002		0.0002	-
	0620	06/01/90	0001	AL	D		< .0002		0.0002	-
	0621	09/15/86	0001	AL	D		< 0.0002		0.0002	-
	0621	09/01/87	0001	AL	D		< 0.0003		0.0002	-
	0622	09/16/86	0001	AL	D		< 0.0002		0.0002	-
	0622	09/01/87	0001	AL	D		< 0.0003		0.0002	-
	0623	09/01/87	0001	AL	D		< 0.0002		0.0002	-
	0624	09/18/86	0001	AL	D		< 0.0002		0.0002	-
	0624	09/01/87	0001	AL	D		< 0.0002		0.0002	-
	0624	04/04/89	0001	AL	D		< 0.0002		0.0002	-
	0624	10/09/90	0001	AL	D		< 0.0002		0.0002	-
	0625	09/03/87	0001	AL	D		< 0.0002		0.0002	-
	0626	09/01/87	0001	AL	D		< 0.0002		0.0002	-
	0626	04/05/89	0001	AL	D		< 0.0002		0.0002	-
	0626	06/04/90	0001	AL	D		< .0002		0.0002	-
	0626	10/11/90	0001	AL	D		< 0.0002		0.0002	-
	0627	09/14/86	0001	AL	D		< 0.0002		0.0002	-
	0627	09/16/87	0001	AL	D		< 0.0002		0.0002	-
	0628	09/16/87	0001	AL	D		< 0.0002		0.0002	-
	0628	04/05/89	0001	AL	D		< 0.0002		0.0002	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK -
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MERCURY	0628	06/04/90	0001	AL	D	MG/L	<	.0002		0.0002	-
	0628	10/11/90	0001	AL	D		<	0.0002		0.0002	-
	0629	08/30/87	0001	AL	D			0.0002		0.0002	-
	0629	04/18/89	0001	AL	D		<	0.0002		0.0002	-
	0630	09/15/86	0001	AL	D		<	0.0002		0.0002	-
	0630	08/30/87	0001	AL	D			0.0002		0.0002	-
	0630	06/04/90	0001	AL	D		<	.0002		0.0002	-
	0630	10/10/90	0001	AL	D		<	0.0002		0.0002	-
	0631	09/20/86	0001	AL	D		<	0.0002		0.0002	-
	0631	08/30/87	0001	AL	D			0.0002		0.0002	-
	0632	09/20/86	0001	AL	D		<	0.0002		0.0002	-
	0632	09/01/87	0001	AL	D			0.0002		0.0002	-
	0632	11/12/87	0001	AL	D		<	0.0002		0.0002	-
	0633	04/19/89	0001	AL	D		<	0.0002		0.0002	-
	0638	09/25/87	0001	AL	D			0.0007		0.0002	-
	0638	10/09/88	0001	AL	D		<	0.0002		0.0002	-
	0638	04/20/89	0001	AL	D		<	0.0002		0.0002	-
	0639	09/25/87	0001	AL	D			0.0003		0.0002	-
	0639	10/09/88	0001	AL	D		<	0.0002		0.0002	-
	0639	04/20/89	0001	AL	D		<	0.0002		0.0002	-
	0640	09/24/87	0001	AL	D		<	0.0002		0.0002	-
	0640	04/19/89	0001	AL	D		<	0.0002		0.0002	-
	0641	09/24/87	0001	AL	D		<	0.0002		0.0002	-
	0641	10/09/88	0001	AL	D			0.0002		0.0002	-
	0641	04/18/89	0001	AL	D		<	0.0002		0.0002	-
	0642	09/23/87	0001	AL	D			0.0002		0.0002	-
	0642	04/18/89	0001	AL	D		<	0.0002		0.0002	-
	0643	09/24/87	0001	AL	D			0.0002		0.0002	-
	0643	04/18/89	0001	AL	D		<	0.0002		0.0002	-
	0644	09/23/87	0001	AL	D			0.0004		0.0002	-
	0644	10/09/88	0001	AL	D		<	0.0002		0.0002	-
	0645	09/23/87	0001	AL	U		<	0.0002		0.0002	-
0645	04/02/89	0001	AL	U	<	0.0002		0.0002	-		
0646	09/22/87	0001	AL	U	<	0.0002		0.0002	-		
0646	10/09/88	0001	AL	U	<	0.0002		0.0002	-		
0646	04/02/89	0001	AL	U	<	0.0002		0.0002	-		
0647	09/20/87	0001	AL	U		0.0003		0.0002	-		
0647	04/02/89	0001	AL	U	<	0.0002		0.0002	-		
0670	10/09/88	0001	AL	D	<	0.0002		0.0002	-		
0670	04/21/89	0001	AL	D	<	0.0002		0.0002	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MERCURY	0671	10/09/88	0001	AL	D	MG/L	<	0.0002		0.0002	-
	0671	04/21/89	0001	AL	D		<	0.0002		0.0002	-
	0672	10/09/88	0001	AL	D		<	0.0002		0.0002	-
	0672	04/22/89	0001	AL	D		<	0.0002		0.0002	-
MOLYBDENUM	0601	09/19/86	0001	AL	U	MG/L		0.16		0.01	-
	0602	09/18/87	0001	AL	D		<	0.01		0.01	-
	0603	09/03/87	0001	AL	D			0.03		0.01	-
	0603	04/06/89	0001	AL	D		<	0.01		0.01	-
	0603	06/04/90	0001	AL	D			.10		0.01	-
	0604	09/03/87	0001	AL	D		<	0.01		0.01	-
	0607	09/19/86	0001	AL	D			0.14		0.01	-
	0607	09/01/87	0001	AL	D		<	0.01		0.01	-
	0608	09/18/86	0001	AL	D			0.10		0.01	-
	0608	09/22/87	0001	AL	D			0.01		0.01	-
	0608	04/03/89	0001	AL	D		<	0.01		0.01	-
	0608	06/01/90	0001	AL	D		<	.01		0.01	-
	0608	10/07/90	0001	AL	D		<	0.02	1c	0.02	-
	0609	09/17/86	0001	AL	D			0.09		0.01	-
	0609	09/21/87	0001	AL	D			0.01		0.01	-
	0610	09/18/86	0001	AL	D			0.09		0.01	-
	0610	09/21/87	0001	AL	D			0.02		0.01	-
	0610	04/03/89	0001	AL	D		<	0.01		0.01	-
	0610	06/01/90	0001	AL	D		<	.01		0.01	-
	0610	10/07/90	0001	AL	D		<	0.01		0.01	-
	0611	09/19/87	0001	AL	D		<	0.01		0.01	-
	0612	09/17/86	0001	AL	D			0.10		0.01	-
	0612	09/19/87	0001	AL	D			0.03		0.01	-
	0612	04/03/89	0001	AL	D		<	0.01		0.01	-
	0613	09/18/86	0001	AL	D			0.11		0.01	-
	0613	09/18/87	0001	AL	D		<	0.01		0.01	-
	0614	09/18/87	0001	AL	D			0.02		0.01	-
	0614	10/11/88	0001	AL	D			0.23		0.01	-
	0614	04/03/89	0001	AL	D		<	0.01		0.01	-
	0614	06/01/90	0001	AL	D		<	.01		0.01	-
0614	10/07/90	0001	AL	D			0.01		0.01	-	
0615	09/18/87	0001	AL	D		<	0.01		0.01	-	
0615	04/03/89	0001	AL	D			0.03		0.01	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MOLYBDENUM	0615	06/01/90	0001	AL	D	MG/L	<	.01		0.01	-
	0615	10/09/90	0001	AL	D			0.36		0.01	-
	0616	09/15/86	0001	AL	D			0.14		0.01	-
	0616	09/18/87	0001	AL	D		<	0.01		0.01	-
	0616	04/04/89	0001	AL	D		<	0.01		0.01	-
	0616	06/01/90	0001	AL	D			.02		0.01	-
	0616	10/09/90	0001	AL	D		<	0.01		0.01	-
	0617	09/18/87	0001	AL	D		<	0.01		0.01	-
	0617	04/04/89	0001	AL	D		<	0.01		0.01	-
	0617	06/01/90	0001	AL	D		<	.01		0.01	-
	0617	10/09/90	0001	AL	D		<	0.01		0.01	-
	0618	09/18/87	0001	AL	D		<	0.01		0.01	-
	0618	10/11/88	0001	AL	D			0.10		0.01	-
	0619	09/19/87	0001	AL	D		<	0.01		0.01	-
	0619	04/05/89	0001	AL	D		<	0.01		0.01	-
	0619	06/01/90	0001	AL	D		<	.01		0.01	-
	0619	10/09/90	0001	AL	D		<	0.01		0.01	-
	0620	09/16/86	0001	AL	D			0.13		0.01	-
	0620	08/30/87	0001	AL	D			0.05		0.01	-
	0620	04/05/89	0001	AL	D		<	0.01		0.01	-
	0620	06/01/90	0001	AL	D		<	.01		0.01	-
	0621	09/15/86	0001	AL	D			0.15		0.01	-
	0621	09/01/87	0001	AL	D			0.02		0.01	-
	0622	09/16/86	0001	AL	D			0.13		0.01	-
	0622	09/01/87	0001	AL	D			0.08		0.01	-
	0623	09/01/87	0001	AL	D		<	0.01		0.01	-
	0624	09/18/86	0001	AL	D			0.13		0.01	-
	0624	09/01/87	0001	AL	D		<	0.01		0.01	-
	0624	04/04/89	0001	AL	D		<	0.01		0.01	-
	0624	10/09/90	0001	AL	D			0.01		0.01	-
	0625	09/03/87	0001	AL	D		<	0.01		0.01	-
	0626	09/01/87	0001	AL	D		<	0.01		0.01	-
	0626	04/05/89	0001	AL	D		<	0.01		0.01	-
	0626	06/04/90	0001	AL	D			.02		0.01	-
	0626	10/11/90	0001	AL	D			0.02		0.01	-
	0627	09/14/86	0001	AL	D			0.11		0.01	-
0627	09/16/87	0001	AL	D			0.01		0.01	-	
0628	09/16/87	0001	AL	D		<	0.01		0.01	-	
0628	04/05/89	0001	AL	D			0.01		0.01	-	
0628	06/04/90	0001	AL	D			.03		0.01	-	
0628	10/11/90	0001	AL	D			0.04		0.01	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)

APPENDIX B

SITE: SHP01 SHIPROCK

09/14/86 TO 01/08/91

REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MOLYBDENUM	0629	08/30/87	0001	AL	D	MG/L		0.02		0.01	-
	0629	04/18/89	0001	AL	D		0.01		0.01	-	
	0630	09/15/86	0001	AL	D		0.11		0.01	-	
	0630	08/30/87	0001	AL	D		0.04		0.01	-	
	0630	06/04/90	0001	AL	D		.02		0.01	-	
	0630	10/10/90	0001	AL	D		0.01		0.01	-	
	0631	09/20/86	0001	AL	D		0.08		0.01	-	
	0631	08/30/87	0001	AL	D		0.02		0.01	-	
	0632	09/20/86	0001	AL	D		0.15		0.01	-	
	0632	09/01/87	0001	AL	D		<	0.01		0.01	-
	0632	11/12/87	0001	AL	D			0.14		0.01	-
	0633	04/19/89	0001	AL	D		<	0.01		0.01	-
	0638	03/19/87	0001	AL	D		<	0.1	c	0.1	-
	0638	05/14/87	0001	AL	D			0.03		0.01	-
	0638	09/25/87	0001	AL	D		<	0.01		0.01	-
	0638	10/09/88	0001	AL	D			0.01		0.01	-
	0638	04/20/89	0001	AL	D		<	0.01		0.01	-
	0639	03/19/87	0001	AL	D		<	0.1	c	0.1	-
	0639	05/14/87	0001	AL	D			0.06		0.01	-
	0639	09/25/87	0001	AL	D			0.01		0.01	-
	0639	10/09/88	0001	AL	D			0.11		0.01	-
	0639	04/20/89	0001	AL	D		<	0.01		0.01	-
	0640	03/19/87	0001	AL	D		<	0.1	c	0.1	-
	0640	09/24/87	0001	AL	D			0.05		0.01	-
	0640	04/19/89	0001	AL	D		<	0.01		0.01	-
	0641	03/18/87	0001	AL	D		<	0.1	c	0.1	-
	0641	05/14/87	0001	AL	D			0.30		0.01	-
	0641	09/24/87	0001	AL	D			0.06		0.01	-
	0641	10/09/88	0001	AL	D			0.41		0.01	-
	0641	04/18/89	0001	AL	D		<	0.01		0.01	-
	0642	03/19/87	0001	AL	D		<	0.1	c	0.1	-
	0642	05/20/87	0001	AL	D			0.15		0.01	-
	0642	09/23/87	0001	AL	D			0.03		0.01	-
	0642	04/18/89	0001	AL	D		<	0.01		0.01	-
	0643	03/19/87	0001	AL	D		<	0.1	c	0.1	-
	0643	09/24/87	0001	AL	D			0.02		0.01	-
	0643	04/18/89	0001	AL	D		<	0.01		0.01	-
	0644	03/18/87	0001	AL	D		<	0.1	c	0.1	-
	0644	05/20/87	0001	AL	D			0.50		0.01	-
	0644	09/23/87	0001	AL	D			0.05		0.01	-

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 - SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MOLYBDENUM	0644	10/09/88	0001	AL	D	MG/L		0.31		0.01	-
	0645	03/17/87	0001	AL	U		<	0.1	c	0.1	-
	0645	05/16/87	0001	AL	U			0.01		0.01	-
	0645	09/23/87	0001	AL	U			0.02		0.01	-
	0645	04/02/89	0001	AL	U		<	0.01		0.01	-
	0646	03/18/87	0001	AL	U		<	0.1	c	0.1	-
	0646	05/16/87	0001	AL	U			0.03		0.01	-
	0646	09/22/87	0001	AL	U		<	0.01		0.01	-
	0646	10/09/88	0001	AL	U			0.03		0.01	-
	0646	04/02/89	0001	AL	U		<	0.01		0.01	-
	0647	03/18/87	0001	AL	U		<	0.1	c	0.1	-
	0647	05/17/87	0001	AL	U			0.02		0.01	-
	0647	09/20/87	0001	AL	U			0.02		0.01	-
	0647	04/02/89	0001	AL	U		<	0.01		0.01	-
	0670	01/20/88	0001	AL	D			0.06		0.01	-
	0670	03/31/88	0001	AL	D		<	0.01		0.01	-
	0670	05/17/88	0001	AL	D			0.01		0.01	-
	0670	10/09/88	0001	AL	D			0.02		0.01	-
	0670	04/21/89	0001	AL	D			0.01		0.01	-
	0671	01/20/88	0001	AL	D			0.11		0.01	-
	0671	03/31/88	0001	AL	D		<	0.01		0.01	-
	0671	05/17/88	0001	AL	D			0.01		0.01	-
	0671	10/09/88	0001	AL	D			0.03		0.01	-
	0671	04/21/89	0001	AL	D		<	0.01		0.01	-
	0672	01/20/88	0001	AL	D			0.10		0.01	-
	0672	03/31/88	0001	AL	D		<	0.01		0.01	-
	0672	05/17/88	0001	AL	D			0.02		0.01	-
	0672	10/09/88	0001	AL	D			0.02		0.01	-
	0672	04/22/89	0001	AL	D			0.02		0.01	-
	NET GROSS ALPHA *	0602	09/18/87	0001	AL		D	PCI/L		-38.73	
0603		09/03/87	0001	AL	D		-395.98			-	-
0603		04/06/89	0001	AL	D		1.62			-	-
0604		09/03/87	0001	AL	D		38.05			-	-
0607		09/01/87	0001	AL	D		255.44			-	-
0608		09/22/87	0001	AL	D		-263.80			-	-
0608		04/03/89	0001	AL	D		-958.78			-	-

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

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

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 *	0609	09/21/87	0001	AL	D	PCI/L	114.56		-	-
	0610	09/21/87	0001	AL	D		238.88		-	-
	0610	04/03/89	0001	AL	D		-537.12		-	-
	0611	09/19/87	0001	AL	D		276.77		-	-
	0612	09/19/87	0001	AL	D		-3.19		-	-
	0612	04/03/89	0001	AL	D		-20.42		-	-
	0613	09/18/87	0001	AL	D		430.51		-	-
	0614	09/18/87	0001	AL	D		350.62		-	-
	0614	10/11/88	0001	AL	D		-230.64		-	-
	0614	04/03/89	0001	AL	D		-241.80		-	-
	0615	09/18/87	0001	AL	D		74.96		-	-
	0615	04/03/89	0001	AL	D		-892.02		-	-
	0616	09/18/87	0001	AL	D		-67.04		-	-
	0616	04/04/89	0001	AL	D		-29.23		-	-
	0617	09/18/87	0001	AL	D		76.47		-	-
	0617	04/04/89	0001	AL	D		44.12		-	-
	0618	09/18/87	0001	AL	D		65.31		-	-
	0618	10/11/88	0001	AL	D		-50.86		-	-
	0619	09/19/87	0001	AL	D		94.76		-	-
	0619	04/05/89	0001	AL	D		545.96		-	-
	0620	08/30/87	0001	AL	D		152.54		-	-
	0620	04/05/89	0001	AL	D		-177.60		-	-
	0621	09/01/87	0001	AL	D		497.66		-	-
	0622	09/01/87	0001	AL	D		-206.02		-	-
	0623	09/01/87	0001	AL	D		454.38		-	-
	0624	09/01/87	0001	AL	D		237.76		-	-
	0624	04/04/89	0001	AL	D		436.98		-	-
	0625	09/03/87	0001	AL	D		52.54		-	-
	0626	09/01/87	0001	AL	D		-186.92		-	-
	0626	04/05/89	0001	AL	D		-114.16		-	-
	0627	09/16/87	0001	AL	D		153.83		-	-
	0628	09/16/87	0001	AL	D		22.17		-	-
0628	04/05/89	0001	AL	D	14.60		-	-		
0629	08/30/87	0001	AL	D	46.32		-	-		
0629	04/18/89	0001	AL	D	18.49		-	-		
0630	08/30/87	0001	AL	D	15.94		-	-		
0631	08/30/87	0001	AL	D	9.14		-	-		
0632	09/01/87	0001	AL	D	13.62		-	-		
0632	11/12/87	0001	AL	D	3.54		-	-		

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

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NET GROSS ALPHA *	0633	04/19/89	0001	AL	D	PCI/L		38.16		-	-
	0638	09/25/87	0001	AL	D		0.35	-	-		
	0638	10/09/88	0001	AL	D		-0.28	-	-		
	0638	04/20/89	0001	AL	D		2.90	-	-		
	0639	09/25/87	0001	AL	D		13.90	-	-		
	0639	10/09/88	0001	AL	D		10.89	-	-		
	0639	04/20/89	0001	AL	D		19.30	-	-		
	0640	09/24/87	0001	AL	D		-86.85	-	-		
	0640	04/19/89	0001	AL	D		58.95	-	-		
	0641	09/24/87	0001	AL	D		-340.74	-	-		
	0641	10/09/88	0001	AL	D		94.76	-	-		
	0641	04/18/89	0001	AL	D		201.34	-	-		
	0642	09/23/87	0001	AL	D		-175.52	-	-		
	0642	04/18/89	0001	AL	D		-406.20	-	-		
	0643	09/24/87	0001	AL	D		-6.02	-	-		
	0643	04/18/89	0001	AL	D		51.48	-	-		
	0644	09/23/87	0001	AL	D		-77.26	-	-		
	0644	10/09/88	0001	AL	D		-385.18	-	-		
	0645	09/23/87	0001	AL	U		3.25	-	-		
	0645	04/02/89	0001	AL	U		18.52	-	-		
	0646	09/22/87	0001	AL	U		6.95	-	-		
	0646	10/09/88	0001	AL	U		32.01	-	-		
	0646	04/02/89	0001	AL	U		19.84	-	-		
	0647	09/20/87	0001	AL	U		0.14	-	-		
	0647	04/02/89	0001	AL	U		6.25	-	-		
	0670	03/31/88	0001	AL	D		14.74	-	-		
	0670	10/09/88	0001	AL	D		11.61	-	-		
	0670	04/21/89	0001	AL	D		22.77	-	-		
	0671	03/31/88	0001	AL	D		27.31	-	-		
	0671	10/09/88	0001	AL	D		10.44	-	-		
0671	04/21/89	0001	AL	D	13.11	-	-				
0672	03/31/88	0001	AL	D	10.64	-	-				
0672	10/09/88	0001	AL	D	3.12	-	-				
0672	04/22/89	0001	AL	D	8.58	-	-				
NICKEL	0601	09/19/86	0001	AL	U	MG/L	<	0.04		0.04	-
	0602	09/18/87	0001	AL	D		<	0.01		0.04	-
	0603	09/03/87	0001	AL	D			0.02	c	0.02	-

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

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI	VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NICKEL	0603	04/06/89	0001	AL	D	MG/L	<	0.04		0.04	-
	0603	06/04/90	0001	AL	D			.04		0.04	-
	0604	09/03/87	0001	AL	D		<	0.01		0.04	-
	0607	09/19/86	0001	AL	D			0.11		0.04	-
	0607	09/01/87	0001	AL	D			0.04		0.04	-
	0608	09/18/86	0001	AL	D			0.14		0.04	-
	0608	09/22/87	0001	AL	D			0.05		0.04	-
	0608	04/03/89	0001	AL	D			0.06		0.04	-
	0608	06/01/90	0001	AL	D			.07		0.04	-
	0608	10/07/90	0001	AL	D		<	0.08	Ic	0.08	-
	0609	09/17/86	0001	AL	D			0.14		0.04	-
	0609	09/21/87	0001	AL	D			0.05		0.04	-
	0610	09/18/86	0001	AL	D			0.10		0.04	-
	0610	09/21/87	0001	AL	D			0.01	c	0.01	-
	0610	04/03/89	0001	AL	D		<	0.04		0.04	-
	0610	06/01/90	0001	AL	D		<	.04		0.04	-
	0610	10/07/90	0001	AL	D			0.04		0.04	-
	0611	09/19/87	0001	AL	D			0.02	c	0.02	-
	0612	09/17/86	0001	AL	D		<	0.04		0.04	-
	0612	09/19/87	0001	AL	D		<	0.01		0.04	-
	0612	04/03/89	0001	AL	D		<	0.04		0.04	-
	0613	09/18/86	0001	AL	D			0.13		0.04	-
	0613	09/18/87	0001	AL	D			0.01	c	0.01	-
	0614	09/18/87	0001	AL	D			0.03	c	0.03	-
	0614	04/03/89	0001	AL	D		<	0.04		0.04	-
	0614	06/01/90	0001	AL	D		<	.04		0.04	-
	0614	10/07/90	0001	AL	D		<	0.04		0.04	-
	0615	09/18/87	0001	AL	D		<	0.01		0.04	-
	0615	04/03/89	0001	AL	D			0.04		0.04	-
	0615	06/01/90	0001	AL	D			.07		0.04	-
	0615	10/09/90	0001	AL	D			0.40		0.04	-
	0616	09/15/86	0001	AL	D		<	0.04		0.04	-
	0616	09/18/87	0001	AL	D		<	0.01		0.04	-
	0616	04/04/89	0001	AL	D		<	0.04		0.04	-
	0616	06/01/90	0001	AL	D		<	.04		0.04	-
	0616	10/09/90	0001	AL	D		<	0.04		0.04	-
	0617	09/18/87	0001	AL	D		<	0.01		0.04	-
	0617	04/04/89	0001	AL	D		<	0.04		0.04	-
	0617	06/01/90	0001	AL	D		<	.04		0.04	-

B-84

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NICKEL	0617	10/09/90	0001	AL	D	MG/L	<	0.04		0.04	-
	0618	09/18/87	0001	AL	D		<	0.01		0.04	-
	0619	09/19/87	0001	AL	D			0.01	c	0.01	-
	0619	04/05/89	0001	AL	D		<	0.04		0.04	-
	0619	06/01/90	0001	AL	D			.05		0.04	-
	0619	10/09/90	0001	AL	D		<	0.04		0.04	-
	0620	09/16/86	0001	AL	D			0.25		0.04	-
	0620	08/30/87	0001	AL	D			0.06		0.04	-
	0620	04/05/89	0001	AL	D			0.07		0.04	-
	0620	06/01/90	0001	AL	D			.06		0.04	-
	0621	09/15/86	0001	AL	D			0.22		0.04	-
	0621	09/01/87	0001	AL	D			0.05		0.04	-
	0622	09/16/86	0001	AL	D			0.21		0.04	-
	0622	09/01/87	0001	AL	D			0.06		0.04	-
	0623	09/01/87	0001	AL	D			0.03	c	0.03	-
	0624	09/18/86	0001	AL	D			0.15		0.04	-
	0624	09/01/87	0001	AL	D			0.02	c	0.02	-
	0624	04/04/89	0001	AL	D		<	0.04		0.04	-
	0624	10/09/90	0001	AL	D		<	0.04		0.04	-
	0625	09/03/87	0001	AL	D			0.02	c	0.02	-
	0626	09/01/87	0001	AL	D			0.03	c	0.03	-
	0626	04/05/89	0001	AL	D		<	0.04		0.04	-
	0626	06/04/90	0001	AL	D		<	.04		0.04	-
	0626	10/11/90	0001	AL	D		<	0.04		0.04	-
	0627	09/14/86	0001	AL	D			0.10		0.04	-
	0627	09/16/87	0001	AL	D			0.01	c	0.01	-
	0628	09/16/87	0001	AL	D			0.02	c	0.02	-
	0628	04/05/89	0001	AL	D		<	0.04		0.04	-
	0628	06/04/90	0001	AL	D		<	.04		0.04	-
	0628	10/11/90	0001	AL	D		<	0.04		0.04	-
	0629	08/30/87	0001	AL	D		<	0.01		0.04	-
	0629	04/18/89	0001	AL	D		<	0.04		0.04	-
0630	09/15/86	0001	AL	D		0.06		0.04	-		
0630	08/30/87	0001	AL	D	<	0.01		0.04	-		
0630	06/04/90	0001	AL	D	<	.04		0.04	-		
0630	10/10/90	0001	AL	D	<	0.04		0.04	-		
0631	09/20/86	0001	AL	D		0.04		0.04	-		
0631	08/30/87	0001	AL	D	<	0.01		0.04	-		
0632	09/20/86	0001	AL	D		0.05		0.04	-		
0632	09/01/87	0001	AL	D	<	0.01		0.04	-		

B-85

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

98-B

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NICKEL	0632	11/12/87	0001	AL	D	MG/L	<	0.01		0.04	-
	0633	04/19/89	0001	AL	D		<	0.04		0.04	-
	0638	03/19/87	0001	AL	D			0.10		0.04	-
	0638	05/14/87	0001	AL	D			0.02	c	0.02	-
	0638	09/25/87	0001	AL	D		<	0.01		0.04	-
	0638	04/20/89	0001	AL	D		<	0.04		0.04	-
	0639	03/19/87	0001	AL	D			0.13		0.04	-
	0639	05/14/87	0001	AL	D			0.05		0.04	-
	0639	09/25/87	0001	AL	D		<	0.01		0.04	-
	0639	04/20/89	0001	AL	D		<	0.04		0.04	-
	0640	03/19/87	0001	AL	D			0.22		0.04	-
	0640	09/24/87	0001	AL	D			0.02	c	0.02	-
	0640	04/19/89	0001	AL	D		<	0.04		0.04	-
	0641	03/18/87	0001	AL	D			0.39		0.04	-
	0641	05/14/87	0001	AL	D			0.17		0.04	-
	0641	09/24/87	0001	AL	D			0.03	c	0.03	-
	0641	04/18/89	0001	AL	D		<	0.04		0.04	-
	0642	03/19/87	0001	AL	D			0.26		0.04	-
	0642	05/20/87	0001	AL	D			0.11		0.04	-
	0642	09/23/87	0001	AL	D			0.01	c	0.01	-
	0642	04/18/89	0001	AL	D		<	0.04		0.04	-
	0643	03/19/87	0001	AL	D			0.71		0.04	-
	0643	09/24/87	0001	AL	D			0.05		0.04	-
	0643	04/18/89	0001	AL	D		<	0.04		0.04	-
	0644	03/18/87	0001	AL	D			0.48		0.04	-
	0644	05/20/87	0001	AL	D			0.26		0.04	-
	0644	09/23/87	0001	AL	D			0.02	c	0.02	-
	0645	03/17/87	0001	AL	U			0.06		0.04	-
	0645	05/16/87	0001	AL	U		<	0.01		0.04	-
	0645	09/23/87	0001	AL	U		<	0.01		0.04	-
	0645	04/02/89	0001	AL	U		<	0.04		0.04	-
	0646	03/18/87	0001	AL	U			0.05		0.04	-
	0646	05/16/87	0001	AL	U			0.02	c	0.02	-
	0646	09/22/87	0001	AL	U		<	0.01		0.04	-
	0646	04/02/89	0001	AL	U		<	0.04		0.04	-
	0647	03/18/87	0001	AL	U			0.08		0.04	-
	0647	05/17/87	0001	AL	U			0.01	c	0.01	-
	0647	09/20/87	0001	AL	U		<	0.01		0.04	-
	0647	04/02/89	0001	AL	U		<	0.04		0.04	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NICKEL	0670	04/21/89	0001	AL	D	MG/L	<	0.04		0.04	-
	0671	04/21/89	0001	AL	D		<	0.04		0.04	-
	0672	04/22/89	0001	AL	D		<	0.04		0.04	-
NITRATE	0601	09/19/86	0001	AL	U	MG/L		3.		1.0	-
	0602	09/18/87	0001	AL	D			110.		1.0	-
	0603	09/03/87	0001	AL	D			120.		1.0	-
	0603	04/06/89	0001	AL	D			5.3		1.0	-
	0603	06/04/90	0001	AL	D			106.		1.0	-
	0604	09/03/87	0001	AL	D			95.		1.0	-
	0607	09/19/86	0001	AL	D			840.0		1.0	-
	0607	09/01/87	0001	AL	D			840.		1.0	-
	0608	09/18/86	0001	AL	D			410.0		1.0	-
	0608	09/22/87	0001	AL	D			365.		1.0	-
	0608	04/03/89	0001	AL	D			3900.		1.0	-
	0608	06/01/90	0001	AL	D			3460.		1.0	-
	0608	10/07/90	0001	AL	D			3110.		1.0	-
	0609	09/17/86	0001	AL	D			410.0		1.0	-
	0609	09/21/87	0001	AL	D			4000.		1.0	-
	0610	09/18/86	0001	AL	D			410.0		1.0	-
	0610	09/21/87	0001	AL	D			1770.		1.0	-
	0610	04/03/89	0001	AL	D			2700.		1.0	-
	0610	06/01/90	0001	AL	D			2270.		1.0	-
	0610	10/07/90	0001	AL	D			1740.		1.0	-
	0611	09/19/87	0001	AL	D			1110.		1.0	-
	0612	09/17/86	0001	AL	D			160.0		1.0	-
	0612	09/19/87	0001	AL	D			< 0.1		1.0	-
	0612	04/03/89	0001	AL	D			51.		1.0	-
	0613	09/18/86	0001	AL	D			320.0		1.0	-
	0613	09/18/87	0001	AL	D			1060.		1.0	-
	0614	09/18/87	0001	AL	D			886.		1.0	-
	0614	10/11/88	0001	AL	D			1120.		1.0	-
	0614	04/03/89	0001	AL	D			1200.		1.0	-
	0614	06/01/90	0001	AL	D			1600.		1.0	-
0614	10/07/90	0001	AL	D			1490.		1.0	-	
0615	09/18/87	0001	AL	D			1570.		1.0	-	
0615	04/03/89	0001	AL	D			3300.		1.0	-	
0615	06/01/90	0001	AL	D			400.		1.0	-	
0615	10/09/90	0001	AL	D			4220.		1.0	-	
0616	09/15/86	0001	AL	D			160.0		1.0	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NITRATE	0616	09/18/87	0001	AL	D	MG/L	25.7		1.0	-
	0616	04/04/89	0001	AL	D		1.8		1.0	-
	0616	06/01/90	0001	AL	D		8.		1.0	-
	0616	10/09/90	0001	AL	D		21.		1.0	-
	0617	09/18/87	0001	AL	D		25.7		1.0	-
	0617	04/04/89	0001	AL	D		50.		1.0	-
	0617	06/01/90	0001	AL	D		7.		1.0	-
	0617	10/09/90	0001	AL	D		213.		1.0	-
	0618	09/18/87	0001	AL	D		42.0		1.0	-
	0618	10/11/88	0001	AL	D		27.		1.0	-
	0619	09/19/87	0001	AL	D		1550.		1.0	-
	0619	04/05/89	0001	AL	D		1600.		1.0	-
	0619	06/01/90	0001	AL	D		10.		1.0	-
	0619	10/09/90	0001	AL	D		389.		1.0	-
	0620	09/16/86	0001	AL	D		840.0		1.0	-
	0620	08/30/87	0001	AL	D		12.0		1.0	-
	0620	04/05/89	0001	AL	D		330.		1.0	-
	0620	06/01/90	0001	AL	D		216.		1.0	-
	0621	09/15/86	0001	AL	D		2100.0		1.0	-
	0621	09/01/87	0001	AL	D		1200.		1.0	-
	0622	09/16/86	0001	AL	D		2400.0		1.0	-
	0622	09/01/87	0001	AL	D		660.		1.0	-
	0623	09/01/87	0001	AL	D		1770.		1.0	-
	0624	09/18/86	0001	AL	D		2500.0		1.0	-
	0624	09/01/87	0001	AL	D		2220.		1.0	-
	0624	04/04/89	0001	AL	D		950.		1.0	-
	0624	10/09/90	0001	AL	D		283.		1.0	-
	0625	09/03/87	0001	AL	D		1620.		1.0	-
	0626	09/01/87	0001	AL	D		190.		1.0	-
	0626	04/05/89	0001	AL	D		23.		1.0	-
	0626	06/04/90	0001	AL	D		2.		1.0	-
	0626	10/11/90	0001	AL	D		< 1.0		1.0	-
	0627	09/14/86	0001	AL	D		220.0		1.0	-
0627	09/16/87	0001	AL	D		75.0		1.0	-	
0628	09/16/87	0001	AL	D		105.		1.0	-	
0628	04/05/89	0001	AL	D		38.		1.0	-	
0628	06/04/90	0001	AL	D		6.		1.0	-	
0628	10/11/90	0001	AL	D		4.		1.0	-	
0629	08/30/87	0001	AL	D		86.8		1.0	-	
0629	04/18/89	0001	AL	D		60.		1.0	-	
0630	09/15/86	0001	AL	D		160.0		1.0	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY	
NITRATE	0630	08/30/87	0001	AL	D	MG/L	97.5		1.0	-	
	0630	06/04/90	0001	AL	D		51.		1.0	-	
	0630	10/10/90	0001	AL	D		31.		1.0	-	
	0631	09/20/86	0001	AL	D		<	1.0		1.0	-
	0631	08/30/87	0001	AL	D			8.9		1.0	-
	0632	09/20/86	0001	AL	D		<	1.0		1.0	-
	0632	09/01/87	0001	AL	D			7.5		1.0	-
	0632	11/12/87	0001	AL	D			0.4	c	0.4	-
	0633	04/19/89	0001	AL	D			1.5		1.0	-
	0638	03/19/87	0001	AL	D		<	0.1		1.0	-
	0638	05/14/87	0001	AL	D			0.4	c	0.4	-
	0638	09/25/87	0001	AL	D		<	0.1		1.0	-
	0638	10/09/88	0001	AL	D		<	1.0		1.0	-
	0638	04/20/89	0001	AL	D			0.7	c	0.7	-
	0639	03/19/87	0001	AL	D		<	0.1		1.0	-
	0639	05/14/87	0001	AL	D			5.7		1.0	-
	0639	09/25/87	0001	AL	D		<	0.1		1.0	-
	0639	10/09/88	0001	AL	D		<	1.0		1.0	-
	0639	04/20/89	0001	AL	D		<	0.1		1.0	-
	0640	03/19/87	0001	AL	D			4.0		1.0	-
	0640	09/24/87	0001	AL	D			3.5		1.0	-
	0640	04/19/89	0001	AL	D			39.		1.0	-
	0641	03/18/87	0001	AL	D			2.6		1.0	-
	0641	05/14/87	0001	AL	D		<	0.1		1.0	-
	0641	09/24/87	0001	AL	D		<	0.1		1.0	-
	0641	10/09/88	0001	AL	D		<	1.0		1.0	-
	0641	04/18/89	0001	AL	D		<	1.0		1.0	-
	0642	03/19/87	0001	AL	D			1110.		1.0	-
	0642	05/20/87	0001	AL	D			930.		1.0	-
	0642	09/23/87	0001	AL	D			2520.		1.0	-
	0642	04/18/89	0001	AL	D			2000.		1.0	-
	0643	03/19/87	0001	AL	D			709.		1.0	-
	0643	09/24/87	0001	AL	D			151.		1.0	-
	0643	04/18/89	0001	AL	D			130.		1.0	-
	0644	03/18/87	0001	AL	D			1240.		1.0	-
	0644	05/20/87	0001	AL	D			1200.		1.0	-
	0644	09/23/87	0001	AL	D			5320.		1.0	-
	0644	10/09/88	0001	AL	D			3450.		1.0	-
	0645	03/17/87	0001	AL	U		<	0.1		1.0	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NITRATE	0645	05/16/87	0001	AL	U	MG/L		2.2		1.0	-
	0645	09/23/87	0001	AL	U			7.1		1.0	-
	0645	04/02/89	0001	AL	U			270.		1.0	-
	0646	03/18/87	0001	AL	U			8.8		1.0	-
	0646	05/16/87	0001	AL	U			11.5		1.0	-
	0646	09/22/87	0001	AL	U			11.1		1.0	-
	0646	10/09/88	0001	AL	U			240.		1.0	-
	0646	04/02/89	0001	AL	U			21.		1.0	-
	0647	03/18/87	0001	AL	U			182.		1.0	-
	0647	05/17/87	0001	AL	U			9.8		1.0	-
	0647	09/20/87	0001	AL	U			8.0		1.0	-
	0647	04/02/89	0001	AL	U			380.		1.0	-
	0670	01/20/88	0001	AL	D			1.2		1.0	-
	0670	03/31/88	0001	AL	D			1.1		1.0	-
	0670	05/17/88	0001	AL	D			2.3		1.0	-
	0670	10/09/88	0001	AL	D		<	1.0		1.0	-
	0670	04/21/89	0001	AL	D			0.4	c	0.4	-
	0671	01/20/88	0001	AL	D			141.		1.0	-
	0671	03/31/88	0001	AL	D			1.7		1.0	-
	0671	05/17/88	0001	AL	D			2.0		1.0	-
	0671	10/09/88	0001	AL	D		<	1.0		1.0	-
	0671	04/21/89	0001	AL	D			0.7	c	0.7	-
	0672	01/20/88	0001	AL	D			4.9		1.0	-
	0672	03/31/88	0001	AL	D			1.7		1.0	-
	0672	05/17/88	0001	AL	D			0.5	c	0.5	-
	0672	10/09/88	0001	AL	D		<	1.0		1.0	-
0672	04/22/89	0001	AL	D			0.7	c	0.7	-	
NITRITE	0601	09/19/86	0001	AL	U	MG/L	<	0.1		0.1	-
	0602	09/18/87	0001	AL	D		<	0.1		0.1	-
	0603	09/03/87	0001	AL	D		<	0.1		0.1	-
	0604	09/03/87	0001	AL	D		<	0.1		0.1	-
	0607	09/19/86	0001	AL	D		<	0.1		0.1	-
	0607	09/01/87	0001	AL	D		<	0.1		0.1	-
	0608	09/18/86	0001	AL	D		<	0.1		0.1	-
	0608	09/22/87	0001	AL	D		<	0.1		0.1	-
	0609	09/17/86	0001	AL	D		<	0.1		0.1	-
	0609	09/21/87	0001	AL	D		<	0.1		0.1	-
	0610	09/18/86	0001	AL	D		<	0.1		0.1	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 U - UPGRADIENT
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NITRITE	0610	09/21/87	0001	AL	D	MG/L	<	0.1		0.1	-
	0611	09/19/87	0001	AL	D		<	0.1		0.1	-
	0612	09/17/86	0001	AL	D		<	0.1		0.1	-
	0612	09/19/87	0001	AL	D		<	0.1		0.1	-
	0613	09/18/86	0001	AL	D		<	0.1		0.1	-
	0613	09/18/87	0001	AL	D		<	0.1		0.1	-
	0614	09/18/87	0001	AL	D		<	0.1		0.1	-
	0615	09/18/87	0001	AL	D		<	0.1		0.1	-
	0616	09/15/86	0001	AL	D		<	0.1		0.1	-
	0616	09/18/87	0001	AL	D		<	0.1		0.1	-
	0617	09/18/87	0001	AL	D		<	0.1		0.1	-
	0618	09/18/87	0001	AL	D		<	0.1		0.1	-
	0619	09/19/87	0001	AL	D		<	0.1		0.1	-
	0620	09/16/86	0001	AL	D		<	0.1		0.1	-
	0620	08/30/87	0001	AL	D		<	0.1		0.1	-
	0621	09/15/86	0001	AL	D		<	0.1		0.1	-
	0621	09/01/87	0001	AL	D		<	0.1		0.1	-
	0622	09/16/86	0001	AL	D		<	0.1		0.1	-
	0622	09/01/87	0001	AL	D		<	0.1		0.1	-
	0623	09/01/87	0001	AL	D		<	0.1		0.1	-
	0624	09/18/86	0001	AL	D		<	0.1		0.1	-
	0624	09/01/87	0001	AL	D		<	0.1		0.1	-
	0625	09/03/87	0001	AL	D		<	0.1		0.1	-
	0626	09/01/87	0001	AL	D		<	0.1		0.1	-
	0627	09/14/86	0001	AL	D		<	0.1		0.1	-
	0627	09/16/87	0001	AL	D		<	0.1		0.1	-
	0628	09/16/87	0001	AL	D		<	0.1		0.1	-
	0629	08/30/87	0001	AL	D		<	0.1		0.1	-
	0630	09/15/86	0001	AL	D		<	0.1		0.1	-
	0630	08/30/87	0001	AL	D		<	0.1		0.1	-
	0631	09/20/86	0001	AL	D		<	0.1		0.1	-
	0631	08/30/87	0001	AL	D		<	0.1		0.1	-
	0632	09/20/86	0001	AL	D		<	0.1		0.1	-
	0632	09/01/87	0001	AL	D		<	0.1		0.1	-
	0632	11/12/87	0001	AL	D		<	0.1		0.1	-
0638	03/19/87	0001	AL	D	<	0.1		0.1	-		
0638	05/14/87	0001	AL	D	<	0.1		0.1	-		
0638	09/25/87	0001	AL	D	<	0.1		0.1	-		
0639	03/19/87	0001	AL	D	<	0.1		0.1	-		
0639	05/14/87	0001	AL	D	<	0.1		0.1	-		
0639	09/25/87	0001	AL	D	<	0.1		0.1	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SNIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NITRITE	0640	03/19/87	0001	AL	D	MG/L	< 0.1		0.1	-
	0640	09/24/87	0001	AL	D		< 0.1		0.1	-
	0641	03/18/87	0001	AL	D		< 0.1		0.1	-
	0641	05/14/87	0001	AL	D		< 0.1		0.1	-
	0641	09/24/87	0001	AL	D		< 0.1		0.1	-
	0642	03/19/87	0001	AL	D		< 0.1		0.1	-
	0642	05/20/87	0001	AL	D		< 0.1		0.1	-
	0642	09/23/87	0001	AL	D		0.4		0.1	-
	0643	03/19/87	0001	AL	D		< 0.1		0.1	-
	0643	09/24/87	0001	AL	D		< 0.1		0.1	-
	0644	03/18/87	0001	AL	D		< 0.1		0.1	-
	0644	05/20/87	0001	AL	D		< 0.1		0.1	-
	0644	09/23/87	0001	AL	D		0.3		0.1	-
	0645	03/17/87	0001	AL	U		< 0.1		0.1	-
	0645	05/16/87	0001	AL	U		< 0.1		0.1	-
	0645	09/23/87	0001	AL	U		< 0.1		0.1	-
	0646	03/18/87	0001	AL	U		< 0.1		0.1	-
	0646	05/16/87	0001	AL	U		< 0.1		0.1	-
	0646	09/22/87	0001	AL	U		< 0.1		0.1	-
	0647	03/18/87	0001	AL	U		< 0.1		0.1	-
	0647	05/17/87	0001	AL	U		< 0.1		0.1	-
	0647	09/20/87	0001	AL	U		< 0.1		0.1	-
	0670	01/20/88	0001	AL	D		< 0.1		0.1	-
	0671	01/20/88	0001	AL	D		< 0.1		0.1	-
	0672	01/20/88	0001	AL	D		< 0.1		0.1	-
	NITRITE AND NITRATE	0614	10/11/88	0001	AL	D	MG/L	250.		1.0
0618		10/11/88	0001	AL	D		6.1		1.0	-
0638		10/09/88	0001	AL	D		< 1.0		1.0	-
0639		10/09/88	0001	AL	D		< 1.0		1.0	-
0641		10/09/88	0001	AL	D		3.3		1.0	-
0644		10/09/88	0001	AL	D		780.		1.0	-
0646		10/09/88	0001	AL	U		54.		1.0	-
0670		03/31/88	0001	AL	D		0.3	c	0.3	-
0670		05/17/88	0001	AL	D		2.3		1.0	-
0670		10/09/88	0001	AL	D		< 1.0		1.0	-
0671		03/31/88	0001	AL	D		0.9	c	0.9	-
0671		05/17/88	0001	AL	D		2.0		1.0	-
0671		10/09/88	0001	AL	D		< 1.0		1.0	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NITRITE AND NITRATE	0672	03/31/88	0001	AL	D	MG/L	0.9	c	0.9	-
	0672	05/17/88	0001	AL	D		0.5	c	0.5	-
	0672	10/09/88	0001	AL	D		<	1.0		1.0
PH	0425	01/08/91	N001	NR	N	SU	7.22		-	-
	0426	01/08/91	N001	NR	N		6.95		-	-
	0601	09/19/86	0001	AL	U		6.98		-	-
	0602	09/18/87	0001	AL	D		6.92		-	-
	0603	09/03/87	0001	AL	D		7.47		-	-
	0603	04/06/89	0001	AL	D		7.74		-	-
	0603	06/04/90	0001	AL	D		6.29		-	-
	0604	09/03/87	0001	AL	D		7.45		-	-
	0607	09/19/86	0001	AL	D		7.35		-	-
	0607	09/01/87	0001	AL	D		7.09		-	-
	0608	09/18/86	0001	AL	D		6.85		-	-
	0608	09/22/87	0001	AL	D		6.72		-	-
	0608	04/03/89	0001	AL	D		6.88		-	-
	0608	06/01/90	0001	AL	D		6.03		-	-
	0608	10/07/90	0001	AL	D		6.7		-	-
	0609	09/17/86	0001	AL	D		6.87		-	-
	0609	09/21/87	0001	AL	D		6.77		-	-
	0610	09/18/86	0001	AL	D		7.09		-	-
	0610	09/21/87	0001	AL	D		6.91		-	-
	0610	04/03/89	0001	AL	D		6.98		-	-
	0610	06/01/90	0001	AL	D		6.89		-	-
	0610	10/07/90	0001	AL	D		6.78		-	-
	0611	09/19/87	0001	AL	D		6.90		-	-
	0612	09/17/86	0001	AL	D		7.12		-	-
	0612	09/19/87	0001	AL	D		7.02		-	-
	0612	04/03/89	0001	AL	D		7.23		-	-
	0613	09/18/86	0001	AL	D		6.97		-	-
	0613	09/18/87	0001	AL	D		6.94		-	-
0614	09/18/87	0001	AL	D	6.89		-	-		
0614	10/11/88	0001	AL	D	6.85		-	-		
0614	04/03/89	0001	AL	D	7.04		-	-		
0614	06/01/90	0001	AL	D	6.91		-	-		
0614	10/07/90	0001	AL	D	6.76		-	-		
0615	09/18/87	0001	AL	D	6.88		-	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM
 NR - NO RECOVERY OF DATA FOR CLASSIFYING

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 N - UNKNOWN
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PH	0615	04/03/89	0001	AL	D	SU		6.99		-	-
	0615	06/01/90	0001	AL	D			6.81		-	-
	0615	10/09/90	0001	AL	D			6.89		-	-
	0616	09/15/86	0001	AL	D			7.13		-	-
	0616	09/18/87	0001	AL	D			7.00		-	-
	0616	04/04/89	0001	AL	D			7.09		-	-
	0616	06/01/90	0001	AL	D			7.11		-	-
	0616	10/09/90	0001	AL	D			6.96		-	-
	0617	09/18/87	0001	AL	D			6.85		-	-
	0617	04/04/89	0001	AL	D			6.93		-	-
	0617	06/01/90	0001	AL	D			6.93		-	-
	0617	10/09/90	0001	AL	D			6.86		-	-
	0618	09/18/87	0001	AL	D			6.89		-	-
	0618	10/11/88	0001	AL	D			6.83		-	-
	0619	09/19/87	0001	AL	D			6.96		-	-
	0619	04/05/89	0001	AL	D			6.94		-	-
	0619	06/01/90	0001	AL	D			6.99		-	-
	0619	10/09/90	0001	AL	D			6.65		-	-
	0620	09/16/86	0001	AL	D			6.83		-	-
	0620	08/30/87	0001	AL	D			6.77		-	-
	0620	04/05/89	0001	AL	D			6.87		-	-
	0620	06/01/90	0001	AL	D			6.87		-	-
	0621	09/15/86	0001	AL	D			6.82		-	-
	0621	09/01/87	0001	AL	D			6.83		-	-
	0622	09/16/86	0001	AL	D			6.80		-	-
	0622	09/01/87	0001	AL	D			6.80		-	-
	0623	09/01/87	0001	AL	D			6.83		-	-
	0624	09/18/86	0001	AL	D			6.93		-	-
	0624	09/01/87	0001	AL	D			6.82		-	-
	0624	04/04/89	0001	AL	D			6.93		-	-
	0624	10/09/90	0001	AL	D			6.85		-	-
	0625	09/03/87	0001	AL	D			6.86		-	-
	0626	09/01/87	0001	AL	D			7.02		-	-
	0626	04/05/89	0001	AL	D			7.21		-	-
	0626	06/04/90	0001	AL	D			7.30		-	-
	0626	10/11/90	0001	AL	D			7.29		-	-
	0627	09/14/86	0001	AL	D			7.13		-	-
	0627	09/16/87	0001	AL	D			7.15		-	-
	0628	09/16/87	0001	AL	D			7.16		-	-
	0628	04/05/89	0001	AL	D			7.35		-	-
0628	06/04/90	0001	AL	D			7.41		-	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PH	0628	10/11/90	0001	AL	D	SU	7.23		-	-
	0629	08/30/87	0001	AL	D		7.40		-	-
	0629	04/18/89	0001	AL	D		7.44		-	-
	0630	09/15/86	0001	AL	D		7.36		-	-
	0630	08/30/87	0001	AL	D		7.32		-	-
	0630	06/04/90	0001	AL	D		7.41		-	-
	0630	10/10/90	0001	AL	D		7.24		-	-
	0631	09/20/86	0001	AL	D		7.04		-	-
	0631	08/30/87	0001	AL	D		7.02		-	-
	0632	09/20/86	0001	AL	D		7.16		-	-
	0632	09/01/87	0001	AL	D		7.08		-	-
	0632	11/12/87	0001	AL	D		7.10		-	-
	0633	04/19/89	0001	AL	D		8.72		-	-
	0638	03/19/87	0001	AL	D		7.34		-	-
	0638	05/14/87	0001	AL	D		7.97		-	-
	0638	09/25/87	0001	AL	D		7.38		-	-
	0638	10/09/88	0001	AL	D		6.62		-	-
	0638	04/20/89	0001	AL	D		6.70		-	-
	0639	03/19/87	0001	AL	D		7.24		-	-
	0639	05/14/87	0001	AL	D		7.40		-	-
	0639	09/25/87	0001	AL	D		7.26		-	-
	0639	10/09/88	0001	AL	D		6.98		-	-
	0639	04/20/89	0001	AL	D		6.98		-	-
	0640	03/19/87	0001	AL	D		7.36		-	-
	0640	09/24/87	0001	AL	D		7.75		-	-
	0640	04/19/89	0001	AL	D		7.35		-	-
	0641	03/18/87	0001	AL	D		7.57		-	-
	0641	05/14/87	0001	AL	D		7.40		-	-
	0641	09/24/87	0001	AL	D		7.73		-	-
	0641	10/09/88	0001	AL	D		7.91		-	-
	0641	04/18/89	0001	AL	D		7.60		-	-
	0642	03/19/87	0001	AL	D		7.57		-	-
	0642	05/20/87	0001	AL	D		7.45		-	-
	0642	09/23/87	0001	AL	D		7.71		-	-
	0642	04/18/89	0001	AL	D		7.34		-	-
	0643	03/19/87	0001	AL	D		8.02		-	-
	0643	09/24/87	0001	AL	D		7.85		-	-
	0643	04/18/89	0001	AL	D		7.37		-	-
	0644	03/18/87	0001	AL	D		8.05		-	-
	0644	05/20/87	0001	AL	D		7.62		-	-
0644	09/23/87	0001	AL	D	7.62		-	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY		
PH	0644	10/09/88	0001	AL	D	SU		7.27		-	-		
	0644	04/18/89	0001	AL	D		7.66	-	-				
	0645	03/17/87	0001	AL	U		7.41	-	-				
	0645	05/16/87	0001	AL	U		7.70	-	-				
	0645	09/23/87	0001	AL	U		7.17	-	-				
	0645	04/02/89	0001	AL	U		7.37	-	-				
	0646	03/18/87	0001	AL	U		7.28	-	-				
	0646	05/16/87	0001	AL	U		7.64	-	-				
	0646	09/22/87	0001	AL	U		7.39	-	-				
	0646	10/09/88	0001	AL	U		6.91	-	-				
	0646	04/02/89	0001	AL	U		7.28	-	-				
	0647	03/18/87	0001	AL	U		7.32	-	-				
	0647	05/17/87	0001	AL	U		7.83	-	-				
	0647	09/20/87	0001	AL	U		7.35	-	-				
	0647	04/02/89	0001	AL	U		7.18	-	-				
	0670	01/20/88	0001	AL	D		7.08	-	-				
	0670	05/17/88	0001	AL	D		7.47	-	-				
	0670	10/09/88	0001	AL	D		6.88	-	-				
	0670	04/21/89	0001	AL	D		7.45	-	-				
	0671	01/20/88	0001	AL	D		7.51	-	-				
	0671	05/17/88	0001	AL	D		7.61	-	-				
	0671	10/09/88	0001	AL	D		7.04	-	-				
	0671	04/21/89	0001	AL	D		7.18	-	-				
	0672	01/20/88	0001	AL	D		7.27	-	-				
	0672	05/17/88	0001	AL	D		7.58	-	-				
	0672	10/09/88	0001	AL	D		6.93	-	-				
	0672	04/22/89	0001	AL	D		7.33	-	-				
	PHOSPHATE	0601	09/19/86	0001	AL		U	MG/L	<	0.1		0.1	-
		0602	09/18/87	0001	AL		D		0.46		0.1	-	
		0603	09/03/87	0001	AL		D		1.65		0.1	-	
0603		04/06/89	0001	AL	D	<	0.1			0.1	-		
0603		06/04/90	0001	AL	D	.6			0.1	-			
0604		09/03/87	0001	AL	D	0.92			0.1	-			
0607		09/19/86	0001	AL	D	<	0.1			0.1	-		
0607		09/01/87	0001	AL	D	1.32			0.1	-			
0608		09/18/86	0001	AL	D	<	0.1			0.1	-		
0608		09/22/87	0001	AL	D	1.30			0.1	-			
0608		04/03/89	0001	AL	D	<	0.1			0.1	-		
0608		10/07/90	0001	AL	D	0.1			0.1	-			

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 \ SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY	
PHOSPHATE	0609	09/17/86	0001	AL	D	MG/L	<	0.1		0.1	-	
	0609	09/21/87	0001	AL	D				1.47		0.1	-
	0610	09/18/86	0001	AL	D		<		0.1		0.1	-
	0610	09/21/87	0001	AL	D				1.12		0.1	-
	0610	04/03/89	0001	AL	D		<		0.1		0.1	-
	0610	10/07/90	0001	AL	D				0.2		0.1	-
	0611	09/19/87	0001	AL	D				0.65		0.1	-
	0612	09/17/86	0001	AL	D		<		0.1		0.1	-
	0612	09/19/87	0001	AL	D				0.34		0.1	-
	0612	04/03/89	0001	AL	D		<		0.1		0.1	-
	0613	09/18/86	0001	AL	D		<		0.1		0.1	-
	0613	09/18/87	0001	AL	D				0.98		0.1	-
	0614	09/18/87	0001	AL	D				0.81		0.1	-
	0614	10/11/88	0001	AL	D		<		0.1		0.1	-
	0614	04/03/89	0001	AL	D		<		0.1		0.1	-
	0614	10/07/90	0001	AL	D				0.1		0.1	-
	0615	09/18/87	0001	AL	D				1.04		0.1	-
	0615	04/03/89	0001	AL	D		<		0.1		0.1	-
	0615	10/09/90	0001	AL	D				0.1		0.1	-
	0616	09/15/86	0001	AL	D		<		0.1		0.1	-
	0616	09/18/87	0001	AL	D				0.45		0.1	-
	0616	04/04/89	0001	AL	D		<		0.1		0.1	-
	0616	10/09/90	0001	AL	D				0.1		0.1	-
	0617	09/18/87	0001	AL	D				0.98		0.1	-
	0617	04/04/89	0001	AL	D		<		0.1		0.1	-
	0617	10/09/90	0001	AL	D				0.1		0.1	-
	0618	09/18/87	0001	AL	D				0.69		0.1	-
	0618	10/11/88	0001	AL	D		<		0.1		0.1	-
	0619	09/19/87	0001	AL	D				1.22		0.1	-
	0619	04/05/89	0001	AL	D		<		0.1		0.1	-
	0619	10/09/90	0001	AL	D				0.2		0.1	-
	0620	09/16/86	0001	AL	D		<		0.1		0.1	-
0620	08/30/87	0001	AL	D			0.62		0.1	-		
0620	04/05/89	0001	AL	D	<		0.1		0.1	-		
0621	09/15/86	0001	AL	D	<		0.1		0.1	-		
0621	09/01/87	0001	AL	D			0.51		0.1	-		
0622	09/16/86	0001	AL	D	<		0.1		0.1	-		
0622	09/01/87	0001	AL	D			0.74		0.1	-		
0623	09/01/87	0001	AL	D			0.67		0.1	-		
0624	09/18/86	0001	AL	D	<		0.1		0.1	-		
0624	09/01/87	0001	AL	D			0.64		0.1	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PHOSPHATE	0624	04/04/89	0001	AL	D	MG/L	<	0.1		0.1	-
	0624	10/09/90	0001	AL	D		0.1	0.1	-		
	0625	09/03/87	0001	AL	D		0.79	0.1	-		
	0626	09/01/87	0001	AL	D		0.61	0.1	-		
	0626	04/05/89	0001	AL	D		<	0.1	0.1	-	
	0626	06/04/90	0001	AL	D		<	.1	0.1	-	
	0626	10/11/90	0001	AL	D		0.1	0.1	-		
	0627	09/14/86	0001	AL	D		<	0.1	0.1	-	
	0627	09/16/87	0001	AL	D		0.53	0.1	-		
	0628	09/16/87	0001	AL	D		0.55	0.1	-		
	0628	04/05/89	0001	AL	D		<	0.1	0.1	-	
	0628	06/04/90	0001	AL	D		<	.1	0.1	-	
	0628	10/11/90	0001	AL	D		0.1	0.1	-		
	0629	08/30/87	0001	AL	D		0.27	0.1	-		
	0629	04/18/89	0001	AL	D		<	0.1	0.1	-	
	0630	09/15/86	0001	AL	D		<	0.1	0.1	-	
	0630	08/30/87	0001	AL	D		0.46	0.1	-		
	0630	06/04/90	0001	AL	D		<	.1	0.1	-	
	0630	10/10/90	0001	AL	D		0.1	0.1	-		
	0631	09/20/86	0001	AL	D		<	0.1	0.1	-	
	0631	08/30/87	0001	AL	D		0.50	0.1	-		
	0632	09/20/86	0001	AL	D		<	0.1	0.1	-	
	0632	09/01/87	0001	AL	D		0.74	0.1	-		
	0632	11/12/87	0001	AL	D		8.9	0.1	-		
	0633	04/19/89	0001	AL	D		<	0.1	0.1	-	
	0638	03/19/87	0001	AL	D		0.15	0.1	-		
	0638	05/14/87	0001	AL	D		1.43	0.1	-		
	0638	09/25/87	0001	AL	D		<	0.1	0.1	-	
	0638	10/09/88	0001	AL	D		<	0.1	0.1	-	
	0638	04/20/89	0001	AL	D		<	0.1	0.1	-	
	0639	03/19/87	0001	AL	D		0.15	0.1	-		
	0639	05/14/87	0001	AL	D		3.53	0.1	-		
	0639	09/25/87	0001	AL	D		0.63	0.1	-		
	0639	10/09/88	0001	AL	D		<	0.1	0.1	-	
	0639	04/20/89	0001	AL	D		<	0.1	0.1	-	
	0640	03/19/87	0001	AL	D		0.30	0.1	-		
	0640	09/24/87	0001	AL	D		0.52	0.1	-		
	0640	04/19/89	0001	AL	D		0.2	0.1	-		
	0641	03/18/87	0001	AL	D		0.30	0.1	-		
	0641	05/14/87	0001	AL	D		10.8	0.1	-		
0641	09/24/87	0001	AL	D	0.77	0.1	-				

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER			DETECTION LIMIT	PARAMETER UNCERTAINTY
							PVI	VALUE	FLAGS		
PHOSPHATE	0641	10/09/88	0001	AL	D	MG/L	<	0.1		0.1	-
	0641	04/18/89	0001	AL	D		<	0.1		0.1	-
	0642	03/19/87	0001	AL	D			0.30		0.1	-
	0642	05/20/87	0001	AL	D			7.49		0.1	-
	0642	09/23/87	0001	AL	D			0.69		0.1	-
	0642	04/18/89	0001	AL	D		<	0.1		0.1	-
	0643	03/19/87	0001	AL	D			0.30		0.1	-
	0643	09/24/87	0001	AL	D			1.01		0.1	-
	0643	04/18/89	0001	AL	D			0.2		0.1	-
	0644	03/18/87	0001	AL	D			0.10		0.1	-
	0644	05/20/87	0001	AL	D			14.9		0.1	-
	0644	09/23/87	0001	AL	D			1.03		0.1	-
	0644	10/09/88	0001	AL	D		<	0.1		0.1	-
	0645	03/17/87	0001	AL	U			0.10		0.1	-
	0645	05/16/87	0001	AL	U			0.73		0.1	-
	0645	09/23/87	0001	AL	U		<	0.1		0.1	-
	0645	04/02/89	0001	AL	U		<	0.1		0.1	-
	0646	03/18/87	0001	AL	U			0.10		0.1	-
	0646	05/16/87	0001	AL	U			1.57		0.1	-
	0646	09/22/87	0001	AL	U		<	0.1		0.1	-
	0646	10/09/88	0001	AL	U		<	0.1		0.1	-
	0646	04/02/89	0001	AL	U		<	0.1		0.1	-
	0647	03/18/87	0001	AL	U			0.15		0.1	-
	0647	05/17/87	0001	AL	U			0.64		0.1	-
	0647	09/20/87	0001	AL	U		<	0.1		0.1	-
	0647	04/02/89	0001	AL	U		<	0.1		0.1	-
	0670	10/09/88	0001	AL	D		<	0.1		0.1	-
	0670	04/21/89	0001	AL	D		<	0.1		0.1	-
	0671	10/09/88	0001	AL	D		<	0.1		0.1	-
	0671	04/21/89	0001	AL	D		<	0.1		0.1	-
0672	10/09/88	0001	AL	D		<	0.1		0.1	-	
0672	04/22/89	0001	AL	D		<	0.1		0.1	-	
POLONIUM-210	0601	09/19/86	0001	AL	U	PCI/L	<	0.5	b	1.0	0.5
	0602	09/18/87	0001	AL	D			0.2	c	0.90000	0.7
	0603	09/03/87	0001	AL	D			2.2		1.0	1.7
	0603	04/06/89	0001	AL	D			0.9		1.0	0.7
	0604	09/03/87	0001	AL	D		<	0.6	b	1.0	0.6

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS:
 b - CHANGED PARAMETER VALUE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

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	0607	09/19/86	0001	AL	D	PCI/L		0.3		1.0	1.3
	0607	09/01/87	0001	AL	D		0.3		1.0	1.3	
	0608	09/18/86	0001	AL	D		1.5		1.0	1.1	
	0608	09/22/87	0001	AL	D		1.1		1.0	1.5	
	0608	04/03/89	0001	AL	D		1.1		1.0	0.7	
	0609	09/17/86	0001	AL	D		1.8		1.0	1.1	
	0609	09/21/87	0001	AL	D		0.6		1.0	1.4	
	0610	09/18/86	0001	AL	D		0.8		1.0	0.7	
	0610	09/21/87	0001	AL	D		0.6		1.0	0.7	
	0610	04/03/89	0001	AL	D		0.4		0.80000	0.4	
	0611	09/19/87	0001	AL	D		0.2		0.80000	0.6	
	0612	09/17/86	0001	AL	D		<	0.5	b	1.0	0.5
	0612	09/19/87	0001	AL	D			1.0		1.0	0.7
	0612	04/03/89	0001	AL	D			1.1		1.0	0.5
	0613	09/18/86	0001	AL	D			1.9		1.0	0.9
	0613	09/18/87	0001	AL	D			0.9		1.0	0.7
	0614	09/18/87	0001	AL	D			0.6		1.0	0.6
	0614	04/03/89	0001	AL	D			0.7		1.0	0.4
	0615	09/18/87	0001	AL	D			1.1		1.0	1.0
	0615	04/03/89	0001	AL	D			3.3		1.0	1.0
	0616	09/15/86	0001	AL	D		<	0.5	b	1.0	0.5
	0616	09/18/87	0001	AL	D			0.9		1.0	0.7
	0616	04/04/89	0001	AL	D			2.5		1.0	0.6
	0617	09/18/87	0001	AL	D			0.9		1.0	0.7
	0617	04/04/89	0001	AL	D			0.2		0.60000	0.4
	0618	09/18/87	0001	AL	D			0.9		1.0	0.7
	0619	09/19/87	0001	AL	D			1.3		1.0	1.1
	0619	04/05/89	0001	AL	D			0.6		1.0	0.6
	0620	09/16/86	0001	AL	D			2.3		1.0	1.5
	0620	08/30/87	0001	AL	D			1.4		1.0	1.5
0620	04/05/89	0001	AL	D		0.9		1.0	0.7		
0621	09/15/86	0001	AL	D		2.0		1.0	1.5		
0621	09/01/87	0001	AL	D		0.8		1.0	1.4		
0622	09/16/86	0001	AL	D		2.3		1.0	1.5		
0623	09/01/87	0001	AL	D		2.4		1.0	1.7		
0624	09/18/86	0001	AL	D		0.5		1.0	1.1		
0624	09/01/87	0001	AL	D		1.1		1.0	1.4		
0624	04/04/89	0001	AL	D		0.9		1.0	0.7		
0625	09/03/87	0001	AL	D		2.0		1.0	1.6		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: b - CHANGED PARAMETER VALUE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI	VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
POLONIUM-210	0626	09/01/87	0001	AL	D	PCI/L		0.6		1.0	1.3
	0626	04/05/89	0001	AL	D			0.2	c	0.60000	0.4
	0627	09/14/86	0001	AL	D			0.1		1.0	0.9
	0627	09/16/87	0001	AL	D			0.1		1.0	1.3
	0628	09/16/87	0001	AL	D		<	1.1	b	1.0	1.1
	0628	04/05/89	0001	AL	D			0.4	c	0.80000	0.4
	0629	08/30/87	0001	AL	D		<	0.7	b	1.0	0.7
	0629	04/18/89	0001	AL	D			0.6		1.0	0.4
	0630	09/15/86	0001	AL	D		<	0.5	b	1.0	0.5
	0630	08/30/87	0001	AL	D		<	0.7	b	1.0	0.7
	0631	09/20/86	0001	AL	D		<	0.5	b	1.0	0.5
	0631	08/30/87	0001	AL	D		<	0.6	b	1.0	0.6
	0632	09/20/86	0001	AL	D		<	0.5	b	1.0	0.5
	0632	09/01/87	0001	AL	D			0.1	c	0.90000	0.8
	0632	11/12/87	0001	AL	D		<	0.6	b	1.0	0.6
	0633	04/19/89	0001	AL	D		<	0.3	d	0.1	0.3
	0638	03/19/87	0001	AL	D		<	0.4	d	0.1	0.4
	0638	05/14/87	0001	AL	D		<	0.5	b	1.0	0.5
	0638	09/25/87	0001	AL	D		<	0.6	b	1.0	0.6
	0638	04/20/89	0001	AL	D			0.1	c	0.50000	0.4
	0639	03/19/87	0001	AL	D		<	0.4	d	0.1	0.4
	0639	05/14/87	0001	AL	D		<	0.3	d	0.1	0.3
	0639	09/25/87	0001	AL	D		<	0.6	b	1.0	0.6
	0639	04/20/89	0001	AL	D		<	0.3	d	0.1	0.3
	0640	03/19/87	0001	AL	D		<	0.7	b	1.0	0.7
	0640	09/24/87	0001	AL	D		<	0.8	b	1.0	0.8
	0640	04/19/89	0001	AL	D			0.1	c	0.50000	0.4
	0641	03/18/87	0001	AL	D		<	1.0	b	1.0	1.0
	0641	05/14/87	0001	AL	D			0.4		1.0	1.0
	0641	09/24/87	0001	AL	D			0.9		1.0	1.2
	0641	04/18/89	0001	AL	D			1.7		1.0	0.8
	0642	03/19/87	0001	AL	D		<	0.8	b	1.0	0.8
	0642	05/20/87	0001	AL	D		<	0.4	d	0.1	0.4
	0642	09/23/87	0001	AL	D		<	0.8	b	1.0	0.8
0642	04/18/89	0001	AL	D		0.4	c	0.80000	0.4		
0643	03/19/87	0001	AL	D		4.5		1.0	1.7		
0643	09/24/87	0001	AL	D		2.0		1.0	1.4		
0643	04/18/89	0001	AL	D		1.8		1.0	0.8		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS:
 b - CHANGED PARAMETER VALUE
 c - CHANGED DETECTION LIMIT
 d - CHANGED DETECTION LIMIT AND PARAMETER VALUE

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

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	0644	03/18/87	0001	AL	D	PCI/L	<	0.8	b	1.0	0.8	
	0644	05/20/87	0001	AL	D		<	0.9	b	1.0	0.9	
	0644	09/23/87	0001	AL	D				0.4		1.0	1.1
	0645	03/17/87	0001	AL	U				0.2	c	0.70000	0.5
	0645	05/16/87	0001	AL	U		<		0.4	d	0.1	0.4
	0645	09/23/87	0001	AL	U		<		0.5	b	1.0	0.5
	0645	04/02/89	0001	AL	U				2.4		1.0	0.6
	0646	03/18/87	0001	AL	U		<		0.4	d	0.1	0.4
	0646	05/16/87	0001	AL	U				0.2	c	0.70000	0.5
	0646	09/22/87	0001	AL	U		<		0.5	b	1.0	0.5
	0646	04/02/89	0001	AL	U				0.4	c	0.80000	0.4
	0647	03/18/87	0001	AL	U				1.6		1.0	0.6
	0647	05/17/87	0001	AL	U		<		0.4	d	0.1	0.4
	0647	09/20/87	0001	AL	U		<		0.6	b	1.0	0.6
	0647	04/02/89	0001	AL	U				0.9		1.0	0.5
	0670	03/31/88	0001	AL	D		<		0.6	b	1.0	0.6
	0670	04/21/89	0001	AL	D		<		0.3	d	0.1	0.3
	0671	03/31/88	0001	AL	D		<		0.5	b	1.0	0.5
	0671	04/21/89	0001	AL	D		<		0.3	d	0.1	0.3
	0672	03/31/88	0001	AL	D		<		0.4		1.0	0.6
0672	04/22/89	0001	AL	D	<		0.3	d	0.1	0.3		
POTASSIUM	0601	09/19/86	0001	AL	U	MG/L		2.08		0.01	-	
	0602	09/18/87	0001	AL	D			45.1		0.01	-	
	0603	09/03/87	0001	AL	D			99.5		0.01	-	
	0603	04/06/89	0001	AL	D			89.9		0.01	-	
	0603	06/04/90	0001	AL	D			353.		0.01	-	
	0604	09/03/87	0001	AL	D			25.4		0.01	-	
	0607	09/19/86	0001	AL	D			112.0		0.01	-	
	0607	09/01/87	0001	AL	D			82.4		0.01	-	
	0608	09/18/86	0001	AL	D			141.0		0.01	-	
	0608	09/22/87	0001	AL	D			150.		0.01	-	
	0608	04/03/89	0001	AL	D			185.		0.01	-	
	0608	06/01/90	0001	AL	D			191.		0.01	-	
	0608	10/07/90	0001	AL	D			166.		0.01	-	
	0609	09/17/86	0001	AL	D			137.0		0.01	-	
	0609	09/21/87	0001	AL	D			166.		0.01	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS:
 b - CHANGED PARAMETER VALUE
 c - CHANGED DETECTION LIMIT
 d - CHANGED DETECTION LIMIT AND PARAMETER VALUE

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
POTASSIUM	0610	09/18/86	0001	AL	D	MG/L	99.4		0.01	-
	0610	09/21/87	0001	AL	D		93.6		0.01	-
	0610	04/03/89	0001	AL	D		127.		0.01	-
	0610	06/01/90	0001	AL	D		152.		0.01	-
	0610	10/07/90	0001	AL	D		126.		0.01	-
	0611	09/19/87	0001	AL	D		56.4		0.01	-
	0612	09/17/86	0001	AL	D		31.6		0.01	-
	0612	09/19/87	0001	AL	D		20.2		0.01	-
	0612	04/03/89	0001	AL	D		11.3		0.01	-
	0613	09/18/86	0001	AL	D		127.0		0.01	-
	0613	09/18/87	0001	AL	D		71.5		0.01	-
	0614	09/18/87	0001	AL	D		77.5		0.01	-
	0614	10/11/88	0001	AL	D		933.		0.01	-
	0614	04/03/89	0001	AL	D		69.9		0.01	-
	0614	06/01/90	0001	AL	D		82.8		0.01	-
	0614	10/07/90	0001	AL	D		79.		0.01	-
	0615	09/18/87	0001	AL	D		121.		0.01	-
	0615	04/03/89	0001	AL	D		165.		0.01	-
	0615	06/01/90	0001	AL	D		152.		0.01	-
	0615	10/09/90	0001	AL	D		120.		0.01	-
	0616	09/15/86	0001	AL	D		22.8		0.01	-
	0616	09/18/87	0001	AL	D		26.2		0.01	-
	0616	04/04/89	0001	AL	D		40.2		0.01	-
	0616	06/01/90	0001	AL	D		47.3		0.01	-
	0616	10/09/90	0001	AL	D		49.		0.01	-
	0617	09/18/87	0001	AL	D		54.4		0.01	-
	0617	04/04/89	0001	AL	D		57.1		0.01	-
	0617	06/01/90	0001	AL	D		56.8		0.01	-
	0617	10/09/90	0001	AL	D		43.		0.01	-
	0618	09/18/87	0001	AL	D		49.0		0.01	-
	0618	10/11/88	0001	AL	D		62.6		0.01	-
	0619	09/19/87	0001	AL	D		109.		0.01	-
0619	04/05/89	0001	AL	D	148.		0.01	-		
0619	06/01/90	0001	AL	D	125.		0.01	-		
0619	10/09/90	0001	AL	D	52.		0.01	-		
0620	09/16/86	0001	AL	D	106.0		0.01	-		
0620	08/30/87	0001	AL	D	81.5		0.01	-		
0620	04/05/89	0001	AL	D	71.4		0.01	-		
0620	06/01/90	0001	AL	D	57.5		0.01	-		
0621	09/15/86	0001	AL	D	110.0		0.01	-		
0621	09/01/87	0001	AL	D	88.5		0.01	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
POTASSIUM	0622	09/16/86	0001	AL	D	MG/L	124.0		0.01	-
	0622	09/01/87	0001	AL	D		92.0		0.01	-
	0623	09/01/87	0001	AL	D		105.		0.01	-
	0624	09/18/86	0001	AL	D		125.0		0.01	-
	0624	09/01/87	0001	AL	D		97.5		0.01	-
	0624	04/04/89	0001	AL	D		113.		0.01	-
	0624	10/09/90	0001	AL	D		61.		0.01	-
	0625	09/03/87	0001	AL	D		100.		0.01	-
	0626	09/01/87	0001	AL	D		40.0		0.01	-
	0626	04/05/89	0001	AL	D		35.3		0.01	-
	0626	06/04/90	0001	AL	D		27.0		0.01	-
	0626	10/11/90	0001	AL	D		23.		0.01	-
	0627	09/14/86	0001	AL	D		46.7		0.01	-
	0627	09/16/87	0001	AL	D		26.0		0.01	-
	0628	09/16/87	0001	AL	D		27.0		0.01	-
	0628	04/05/89	0001	AL	D		21.5		0.01	-
	0628	06/04/90	0001	AL	D		20.5		0.01	-
	0628	10/11/90	0001	AL	D		19.		0.01	-
	0629	08/30/87	0001	AL	D		17.7		0.01	-
	0629	04/18/89	0001	AL	D		13.7		0.01	-
	0630	09/15/86	0001	AL	D		24.5		0.01	-
	0630	08/30/87	0001	AL	D		17.8		0.01	-
	0630	06/04/90	0001	AL	D		11.8		0.01	-
	0630	10/10/90	0001	AL	D		11.		0.01	-
	0631	09/20/86	0001	AL	D		13.8		0.01	-
	0631	08/30/87	0001	AL	D		12.3		0.01	-
	0632	09/20/86	0001	AL	D		15.9		0.01	-
	0632	09/01/87	0001	AL	D		11.5		0.01	-
	0632	11/12/87	0001	AL	D		10.4		0.01	-
	0633	04/19/89	0001	AL	D		9.4		0.01	-
	0638	03/19/87	0001	AL	D		7.32		0.01	-
	0638	05/14/87	0001	AL	D		3.81		0.01	-
	0638	09/25/87	0001	AL	D		3.81		0.01	-
	0638	10/09/88	0001	AL	D		3.5		0.01	-
	0638	04/20/89	0001	AL	D		3.8		0.01	-
	0639	03/19/87	0001	AL	D		5.30		0.01	-
	0639	05/14/87	0001	AL	D		3.48		0.01	-
	0639	09/25/87	0001	AL	D		6.95		0.01	-
	0639	10/09/88	0001	AL	D		8.2		0.01	-
	0639	04/20/89	0001	AL	D		5.9		0.01	-
0640	03/19/87	0001	AL	D		33.6		0.01	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

B-105

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
POTASSIUM	0640	09/24/87	0001	AL	D	MG/L	24.4		0.01	-
	0640	04/19/89	0001	AL	D		21.9		0.01	-
	0641	03/18/87	0001	AL	D		36.5		0.01	-
	0641	05/14/87	0001	AL	D		17.3		0.01	-
	0641	09/24/87	0001	AL	D		36.6		0.01	-
	0641	10/09/88	0001	AL	D		97.7		0.01	-
	0641	04/18/89	0001	AL	D		45.4		0.01	-
	0642	03/19/87	0001	AL	D		25.7		0.01	-
	0642	05/20/87	0001	AL	D		7.08		0.01	-
	0642	09/23/87	0001	AL	D		27.9		0.01	-
	0642	04/18/89	0001	AL	D		28.3		0.01	-
	0643	03/19/87	0001	AL	D		42.1		0.01	-
	0643	09/24/87	0001	AL	D		40.6		0.01	-
	0643	04/18/89	0001	AL	D		33.9		0.01	-
	0644	03/18/87	0001	AL	D		25.3		0.01	-
	0644	05/20/87	0001	AL	D		18.3		0.01	-
	0644	09/23/87	0001	AL	D		36.3		0.01	-
	0644	10/09/88	0001	AL	D		48.2		0.01	-
	0645	03/17/87	0001	AL	U		3.70		0.01	-
	0645	05/16/87	0001	AL	U		2.64		0.01	-
	0645	09/23/87	0001	AL	U		2.45		0.01	-
	0645	04/02/89	0001	AL	U		9.18		0.01	-
	0646	03/18/87	0001	AL	U		4.20		0.01	-
	0646	05/16/87	0001	AL	U		4.23		0.01	-
	0646	09/22/87	0001	AL	U		4.64		0.01	-
	0646	10/09/88	0001	AL	U		7.0		0.01	-
	0646	04/02/89	0001	AL	U		3.96		0.01	-
	0647	03/18/87	0001	AL	U		6.81		0.01	-
	0647	05/17/87	0001	AL	U		3.10		0.01	-
	0647	09/20/87	0001	AL	U		2.30		0.01	-
	0647	04/02/89	0001	AL	U		9.80		0.01	-
	0670	01/20/88	0001	AL	D		4.30		0.01	-
	0670	03/31/88	0001	AL	D		2.99		0.01	-
0670	05/17/88	0001	AL	D	3.33		0.01	-		
0670	10/09/88	0001	AL	D	5.1		0.01	-		
0670	04/21/89	0001	AL	D	4.1		0.01	-		
0671	01/20/88	0001	AL	D	24.1		0.01	-		
0671	03/31/88	0001	AL	D	14.8		0.01	-		
0671	05/17/88	0001	AL	D	14.5		0.01	-		
0671	10/09/88	0001	AL	D	10.2		0.01	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
POTASSIUM	0671	04/21/89	0001	AL	D	MG/L		10.5		0.01	-
	0672	01/20/88	0001	AL	D			8.64		0.01	-
	0672	03/31/88	0001	AL	D			4.42		0.01	-
	0672	05/17/88	0001	AL	D			7.15		0.01	-
	0672	10/09/88	0001	AL	D			3.3		0.01	-
	0672	04/22/89	0001	AL	D			3.3		0.01	-
RADIUM-226	0601	09/19/86	0001	AL	U	PCI/L		0.1	c	0.30000	0.2
	0602	09/18/87	0001	AL	D		<	0.1	d	0.1	0.1
	0603	09/03/87	0001	AL	D		<	0.1	d	0.1	0.1
	0603	04/06/89	0001	AL	D			0.1	c	0.30000	0.2
	0603	06/04/90	0001	AL	D			2.7		1.0	0.6
	0604	09/03/87	0001	AL	D		<	0.1	d	0.1	0.1
	0607	09/19/86	0001	AL	D			0.1	c	0.40000	0.3
	0607	09/01/87	0001	AL	D			0.1	c	0.20000	0.1
	0608	09/18/86	0001	AL	D			0.3	c	0.70000	0.4
	0608	09/22/87	0001	AL	D		<	0.1	d	0.1	0.1
	0608	04/03/89	0001	AL	D		<	0.2	d	0.1	0.2
	0608	06/01/90	0001	AL	D			0.2	c	0.40000	0.2
	0608	10/07/90	0001	AL	D			0.1	c	0.30000	0.2
	0609	09/17/86	0001	AL	D			0.2	c	0.50000	0.3
	0609	09/21/87	0001	AL	D		<	0.1	d	0.1	0.1
	0610	09/18/86	0001	AL	D			0.1	c	0.30000	0.2
	0610	09/21/87	0001	AL	D			0.1	c	0.30000	0.2
	0610	04/03/89	0001	AL	D		<	0.1	d	0.1	0.1
	0610	06/01/90	0001	AL	D			0.2	c	0.40000	0.2
	0610	10/07/90	0001	AL	D		<	0.2	d	0.1	0.2
	0611	09/19/87	0001	AL	D		<	0.1	d	0.1	0.1
	0612	09/17/86	0001	AL	D			0.2	c	0.40000	0.2
	0612	09/19/87	0001	AL	D		<	0.1	d	0.1	0.1
	0612	04/03/89	0001	AL	D			0.1	c	0.20000	0.1
	0613	09/18/86	0001	AL	D			0.5	c	0.90000	0.4
	0613	09/18/87	0001	AL	D			0.1	c	0.30000	0.2
	0614	09/18/87	0001	AL	D			0.1	c	0.20000	0.1
	0614	10/11/88	0001	AL	D			0.1	c	0.20000	0.1
0614	04/03/89	0001	AL	D		<	0.1	d	0.1	0.1	
0614	06/01/90	0001	AL	D			0.3	c	0.50000	0.2	
0614	10/07/90	0001	AL	D			0.2	c	0.40000	0.2	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT
 d - CHANGED DETECTION LIMIT AND PARAMETER VALUE

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

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	0615	09/18/87	0001	AL	D	PCI/L		0.2	c	0.40000	0.2
	0615	04/03/89	0001	AL	D		<	0.2	d	0.1	0.2
	0615	06/01/90	0001	AL	D			0.6	c	0.90000	0.3
	0615	10/09/90	0001	AL	D			0.7		1.0	0.4
	0616	09/15/86	0001	AL	D			0.4	c	0.70000	0.3
	0616	09/18/87	0001	AL	D			0.1	c	0.30000	0.2
	0616	04/04/89	0001	AL	D		<	0.1	d	0.1	0.1
	0616	06/01/90	0001	AL	D			0.2	c	0.40000	0.2
	0616	10/09/90	0001	AL	D			0.1	c	0.30000	0.2
	0617	09/18/87	0001	AL	D			0.1	c	0.30000	0.2
	0617	04/04/89	0001	AL	D		<	0.1	d	0.1	0.1
	0617	06/01/90	0001	AL	D			0.1	c	0.30000	0.2
	0617	10/09/90	0001	AL	D			0.2	c	0.40000	0.2
	0618	09/18/87	0001	AL	D		<	0.1	d	0.1	0.1
	0618	10/11/88	0001	AL	D		<	0.1	d	0.1	0.1
	0619	09/19/87	0001	AL	D		<	0.1	d	0.1	0.1
	0619	04/05/89	0001	AL	D		<	0.2	d	0.1	0.2
	0619	06/01/90	0001	AL	D			0.4	c	0.60000	0.2
	0619	10/09/90	0001	AL	D			0.2	c	0.40000	0.2
	0620	09/16/86	0001	AL	D		<	0.3	d	0.1	0.3
	0620	08/30/87	0001	AL	D		<	0.1	d	0.1	0.1
	0620	04/05/89	0001	AL	D		<	0.2	d	0.1	0.2
	0620	06/01/90	0001	AL	D			0.5	c	0.80000	0.3
	0621	09/15/86	0001	AL	D			0.3	c	0.70000	0.4
	0621	09/01/87	0001	AL	D		<	0.1	d	0.1	0.1
	0622	09/16/86	0001	AL	D			0.4	c	0.80000	0.4
	0622	09/01/87	0001	AL	D			0.1	c	0.20000	0.1
	0623	09/01/87	0001	AL	D			0.2	c	0.40000	0.2
	0624	09/18/86	0001	AL	D			0.5	c	0.90000	0.4
	0624	09/01/87	0001	AL	D		<	0.1	d	0.1	0.1
	0624	04/04/89	0001	AL	D		<	0.1	d	0.1	0.1
	0624	10/09/90	0001	AL	D		<	0.2	d	0.1	0.2
	0625	09/03/87	0001	AL	D		<	0.1	d	0.1	0.1
0626	09/01/87	0001	AL	D			0.1	c	0.20000	0.1	
0626	04/05/89	0001	AL	D			0.1	c	0.30000	0.2	
0626	06/04/90	0001	AL	D			0.1	c	0.20000	0.1	
0626	10/11/90	0001	AL	D			0.2	c	0.40000	0.2	
0627	09/14/86	0001	AL	D			0.4	c	0.80000	0.4	
0627	09/16/87	0001	AL	D			0.1	c	0.20000	0.1	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI):
 OTHER PARAMETER VALUE FLAGS:

< - LESS THAN DETECTION LIMIT
 c - CHANGED DETECTION LIMIT
 d - CHANGED DETECTION LIMIT AND PARAMETER VALUE

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

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	0628	09/16/87	0001	AL	D	PCI/L	<	0.1	d	0.1	0.1
	0628	04/05/89	0001	AL	D		<	0.1	d	0.1	0.1
	0628	06/04/90	0001	AL	D			0.3	c	0.50000	0.2
	0628	10/11/90	0001	AL	D		<	0.1	d	0.1	0.1
	0629	08/30/87	0001	AL	D		<	0.1	d	0.1	0.1
	0629	04/18/89	0001	AL	D		<	0.1	d	0.1	0.1
	0630	09/15/86	0001	AL	D			0.1	c	0.30000	0.2
	0630	08/30/87	0001	AL	D			0.1	c	0.30000	0.2
	0630	06/04/90	0001	AL	D			0.1	c	0.30000	0.2
	0630	10/10/90	0001	AL	D			0.1	c	0.30000	0.2
	0631	09/20/86	0001	AL	D			0.2	c	0.40000	0.2
	0631	08/30/87	0001	AL	D		<	0.1	d	0.1	0.1
	0632	09/20/86	0001	AL	D			0.6	c	0.90000	0.3
	0632	09/01/87	0001	AL	D		<	0.1	d	0.1	0.1
	0632	11/12/87	0001	AL	D			0.1	c	0.30000	0.2
	0633	04/19/89	0001	AL	D		<	0.1	d	0.1	0.1
	0638	03/19/87	0001	AL	D			0.6	c	0.90000	0.3
	0638	05/14/87	0001	AL	D			0.2	c	0.40000	0.2
	0638	09/25/87	0001	AL	D			0.2	c	0.40000	0.2
	0638	10/09/88	0001	AL	D			0.1	c	0.30000	0.2
	0639	03/19/87	0001	AL	D			0.1	c	0.30000	0.2
	0639	05/14/87	0001	AL	D		<	0.2	d	0.1	0.2
	0639	09/25/87	0001	AL	D			0.1	c	0.30000	0.2
	0639	10/09/88	0001	AL	D			0.1	c	0.30000	0.2
	0640	03/19/87	0001	AL	D		<	0.2	d	0.1	0.2
	0640	09/24/87	0001	AL	D			0.1	c	0.30000	0.2
	0640	04/19/89	0001	AL	D			0.2	c	0.40000	0.2
	0641	03/18/87	0001	AL	D			0.1	c	0.30000	0.2
	0641	05/14/87	0001	AL	D			0.2	c	0.40000	0.2
	0641	09/24/87	0001	AL	D			0.3	c	0.60000	0.3
	0641	10/09/88	0001	AL	D		<	0.2	d	0.1	0.2
	0641	04/18/89	0001	AL	D		<	0.2	d	0.1	0.2
	0642	03/19/87	0001	AL	D			0.4	c	0.70000	0.3
	0642	05/20/87	0001	AL	D		<	0.1	d	0.1	0.1
	0642	09/23/87	0001	AL	D			0.1	c	0.30000	0.2
	0642	04/18/89	0001	AL	D		<	0.1	d	0.1	0.1
	0643	03/19/87	0001	AL	D		<	0.2	d	0.1	0.2
	0643	09/24/87	0001	AL	D		<	0.1	d	0.1	0.1
	0643	04/18/89	0001	AL	D		<	0.1	d	0.1	0.1

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT
 d - CHANGED DETECTION LIMIT AND PARAMETER VALUE

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

B-109

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER			DETECTION LIMIT	PARAMETER UNCERTAINTY	
							PVI	VALUE	FLAGS			
RADIUM-226	0644	03/18/87	0001	AL	D	PCI/L	<	0.2	d	0.1	0.2	
	0644	05/20/87	0001	AL	D		<	0.0	d	0.1	0.0	
	0644	09/23/87	0001	AL	D		<	0.1	d	0.1	0.1	
	0644	10/09/88	0001	AL	D		<	0.1	d	0.1	0.1	
	0645	03/17/87	0001	AL	U				0.1	c	0.40000	0.3
	0645	05/16/87	0001	AL	U		<	0.2	d	0.1	0.2	
	0645	09/23/87	0001	AL	U				0.1	c	0.30000	0.2
	0645	04/02/89	0001	AL	U				0.1	c	0.20000	0.1
	0646	03/18/87	0001	AL	U				0.2	c	0.50000	0.3
	0646	05/16/87	0001	AL	U				0.3	c	0.60000	0.3
	0646	09/22/87	0001	AL	U		<	0.1	d	0.1	0.1	
	0646	10/09/88	0001	AL	U		<	0.1	d	0.1	0.1	
	0646	04/02/89	0001	AL	U		<	0.2	d	0.1	0.2	
	0647	03/18/87	0001	AL	U				0.7		1.0	0.3
	0647	05/17/87	0001	AL	U				0.2	c	0.40000	0.2
	0647	09/20/87	0001	AL	U				0.2	c	0.40000	0.2
	0647	04/02/89	0001	AL	U				0.1	c	0.30000	0.2
	0670	03/31/88	0001	AL	D		<	0.1	d	0.1	0.1	
	0670	10/09/88	0001	AL	D		<	0.1	d	0.1	0.1	
	0671	03/31/88	0001	AL	D		<	0.2	c	0.40000	0.2	
0671	10/09/88	0001	AL	D	<	0.1	d	0.1	0.1			
0672	03/31/88	0001	AL	D	<	0.1	d	0.1	0.1			
0672	10/09/88	0001	AL	D	<	0.1	d	0.1	0.1			
RADIUM-226 + RADIUM-228	0601	09/19/86	0001	AL	U	PCI/L		0.20		-	-	
	0602	09/18/87	0001	AL	D			1.55		-	-	
	0603	09/03/87	0001	AL	D			0.35		-	-	
	0603	04/06/89	0001	AL	D			1.00		-	-	
	0603	06/04/90	0001	AL	D			6.00		-	-	
	0604	09/03/87	0001	AL	D			0.15		-	-	
	0607	09/19/86	0001	AL	D			0.60		-	-	
	0607	09/01/87	0001	AL	D			1.30		-	-	
	0608	09/18/86	0001	AL	D			0.50		-	-	
	0608	09/22/87	0001	AL	D			0.25		-	-	
	0608	04/03/89	0001	AL	D			0.25		-	-	
	0608	06/01/90	0001	AL	D			1.50		-	-	
	0608	10/07/90	0001	AL	D			0.40		-	-	
0609	09/17/86	0001	AL	D		0.70		-	-			

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS:
 c - CHANGED DETECTION LIMIT
 d - CHANGED DETECTION LIMIT AND PARAMETER VALUE

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER		DETECTION LIMIT	PARAMETER UNCERTAINTY
							PVI	VALUE		
RADIUM-226 + RADIUM-228	0609	09/21/87	0001	AL	D	PCI/L		0.55	-	-
	0610	09/18/86	0001	AL	D			0.50	-	-
	0610	09/21/87	0001	AL	D			0.50	-	-
	0610	04/03/89	0001	AL	D			0.65	-	-
	0610	06/01/90	0001	AL	D			1.50	-	-
	0610	10/07/90	0001	AL	D			0.55	-	-
	0611	09/19/87	0001	AL	D			0.55	-	-
	0612	09/17/86	0001	AL	D			0.90	-	-
	0612	09/19/87	0001	AL	D			0.55	-	-
	0612	04/03/89	0001	AL	D			0.60	-	-
	0613	09/18/86	0001	AL	D			1.30	-	-
	0613	09/18/87	0001	AL	D			0.60	-	-
	0614	09/18/87	0001	AL	D			1.20	-	-
	0614	10/11/88	0001	AL	D			1.20	-	-
	0614	04/03/89	0001	AL	D			0.25	-	-
	0614	06/01/90	0001	AL	D			1.50	-	-
	0614	10/07/90	0001	AL	D			0.70	-	-
	0615	09/18/87	0001	AL	D			0.70	-	-
	0615	04/03/89	0001	AL	D			0.55	-	-
	0615	06/01/90	0001	AL	D			2.00	-	-
	0615	10/09/90	0001	AL	D			1.20	-	-
	0616	09/15/86	0001	AL	D			0.60	-	-
	0616	09/18/87	0001	AL	D			0.50	-	-
	0616	04/04/89	0001	AL	D			0.35	-	-
	0616	06/01/90	0001	AL	D			1.40	-	-
	0616	10/09/90	0001	AL	D			0.60	-	-
	0617	09/18/87	0001	AL	D			0.90	-	-
	0617	04/04/89	0001	AL	D			0.85	-	-
	0617	06/01/90	0001	AL	D			0.70	-	-
	0617	10/09/90	0001	AL	D			0.70	-	-
	0618	09/18/87	0001	AL	D			1.15	-	-
0618	10/11/88	0001	AL	D			0.75	-	-	
0619	09/19/87	0001	AL	D			1.05	-	-	
0619	04/05/89	0001	AL	D			0.85	-	-	
0619	06/01/90	0001	AL	D			2.40	-	-	
0619	10/09/90	0001	AL	D			0.70	-	-	
0620	09/16/86	0001	AL	D			0.75	-	-	
0620	08/30/87	0001	AL	D			0.95	-	-	
0620	04/05/89	0001	AL	D			0.55	-	-	
0620	06/01/90	0001	AL	D			1.70	-	-	
0621	09/15/86	0001	AL	D			0.90	-	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

B-110

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

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	0621	09/01/87	0001	AL	D	PCI/L	0.75		-	-
	0622	09/16/86	0001	AL	D		1.30		-	-
	0622	09/01/87	0001	AL	D		1.80		-	-
	0623	09/01/87	0001	AL	D		2.30		-	-
	0624	09/18/86	0001	AL	D		1.80		-	-
	0624	09/01/87	0001	AL	D		1.35		-	-
	0624	04/04/89	0001	AL	D		0.25		-	-
	0624	10/09/90	0001	AL	D		1.95		-	-
	0625	09/03/87	0001	AL	D		1.15		-	-
	0626	09/01/87	0001	AL	D		1.10		-	-
	0626	04/05/89	0001	AL	D		0.40		-	-
	0626	06/04/90	0001	AL	D		0.70		-	-
	0626	10/11/90	0001	AL	D		0.40		-	-
	0627	09/14/86	0001	AL	D		0.60		-	-
	0627	09/16/87	0001	AL	D		0.40		-	-
	0628	09/16/87	0001	AL	D		0.55		-	-
	0628	04/05/89	0001	AL	D		0.55		-	-
	0628	06/04/90	0001	AL	D		0.70		-	-
	0628	10/11/90	0001	AL	D		7.05		-	-
	0629	08/30/87	0001	AL	D		0.15		-	-
	0629	04/18/89	0001	AL	D		0.25		-	-
	0630	09/15/86	0001	AL	D		0.40		-	-
	0630	08/30/87	0001	AL	D		0.70		-	-
	0630	06/04/90	0001	AL	D		0.90		-	-
	0630	10/10/90	0001	AL	D		3.10		-	-
	0631	09/20/86	0001	AL	D		0.50		-	-
	0631	08/30/87	0001	AL	D		0.55		-	-
	0632	09/20/86	0001	AL	D		2.00		-	-
	0632	09/01/87	0001	AL	D		0.25		-	-
	0632	11/12/87	0001	AL	D		0.60		-	-
	0633	04/19/89	0001	AL	D		0.25		-	-
	0638	03/19/87	0001	AL	D		1.10		-	-
	0638	05/14/87	0001	AL	D		0.60		-	-
	0638	09/25/87	0001	AL	D		0.60		-	-
	0638	10/09/88	0001	AL	D		0.40		-	-
	0639	03/19/87	0001	AL	D		0.90		-	-
	0639	05/14/87	0001	AL	D		0.55		-	-
	0639	09/25/87	0001	AL	D		0.70		-	-
	0639	10/09/88	0001	AL	D		0.30		-	-
	0640	03/19/87	0001	AL	D		0.35		-	-
0640	09/24/87	0001	AL	D	0.60		-	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

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	0640	04/19/89	0001	AL	D	PCI/L	0.40		-	-
	0641	03/18/87	0001	AL	D		0.60		-	-
	0641	05/14/87	0001	AL	D		0.90		-	-
	0641	09/24/87	0001	AL	D		0.70		-	-
	0641	10/09/88	0001	AL	D		1.05		-	-
	0641	04/18/89	0001	AL	D		0.15		-	-
	0642	03/19/87	0001	AL	D		0.90		-	-
	0642	05/20/87	0001	AL	D		0.75		-	-
	0642	09/23/87	0001	AL	D		0.60		-	-
	0642	04/18/89	0001	AL	D		0.55		-	-
	0643	03/19/87	0001	AL	D		0.15		-	-
	0643	09/24/87	0001	AL	D		0.55		-	-
	0643	04/18/89	0001	AL	D		0.45		-	-
	0644	03/18/87	0001	AL	D		0.75		-	-
	0644	05/20/87	0001	AL	D		0.15		-	-
	0644	09/23/87	0001	AL	D		0.65		-	-
	0644	10/09/88	0001	AL	D		0.45		-	-
	0645	03/17/87	0001	AL	U		0.70		-	-
	0645	05/16/87	0001	AL	U		0.55		-	-
	0645	09/23/87	0001	AL	U		0.40		-	-
	0645	04/02/89	0001	AL	U		0.40		-	-
	0646	03/18/87	0001	AL	U		0.40		-	-
	0646	05/16/87	0001	AL	U		0.80		-	-
	0646	09/22/87	0001	AL	U		0.25		-	-
	0646	10/09/88	0001	AL	U		0.95		-	-
	0646	04/02/89	0001	AL	U		0.55		-	-
	0647	03/18/87	0001	AL	U		1.20		-	-
	0647	05/17/87	0001	AL	U		0.70		-	-
	0647	09/20/87	0001	AL	U		0.70		-	-
	0647	04/02/89	0001	AL	U		0.50		-	-
	0670	03/31/88	0001	AL	D		0.55		-	-
	0670	10/09/88	0001	AL	D		0.65		-	-
	0671	03/31/88	0001	AL	D		0.40		-	-
0671	10/09/88	0001	AL	D	0.45		-	-		
0672	03/31/88	0001	AL	D	0.25		-	-		
0672	10/09/88	0001	AL	D	0.35		-	-		
RADIUM-228	0601	09/19/86	0001	AL	U	PCI/L	0.1		1.0	1.0
	0602	09/18/87	0001	AL	D		1.5		1.0	1.6
	0603	09/03/87	0001	AL	D		0.3		1.0	0.8

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER		DETECTION LIMIT	PARAMETER UNCERTAINTY	
							PVI	VALUE			FLAGS
RADIUM-228	0603	04/06/89	0001	AL	D	PCI/L		0.9	1.0	0.9	
	0603	06/04/90	0001	AL	D			3.3	1.0	1.9	
	0604	09/03/87	0001	AL	D			0.1	1.0	0.9	
	0607	09/19/86	0001	AL	D		<	0.9	b	1.0	0.9
	0607	09/01/87	0001	AL	D			1.2		1.0	0.8
	0608	09/18/86	0001	AL	D			0.2		1.0	1.0
	0608	09/22/87	0001	AL	D			0.2		1.0	0.9
	0608	04/03/89	0001	AL	D			0.2		1.0	0.8
	0608	06/01/90	0001	AL	D			1.3		1.0	0.8
	0608	10/07/90	0001	AL	D			0.3		1.0	2.2
	0609	09/17/86	0001	AL	D			0.5		1.0	1.2
	0609	09/21/87	0001	AL	D		<	1.0	b	1.0	1.0
	0610	09/18/86	0001	AL	D			0.4		1.0	0.9
	0610	09/21/87	0001	AL	D			0.4		1.0	1.2
	0610	04/03/89	0001	AL	D			0.6		1.0	0.8
	0610	06/01/90	0001	AL	D			1.3		1.0	0.8
	0610	10/07/90	0001	AL	D		<	3.0	b	1.0	3.0
	0611	09/19/87	0001	AL	D		<	1.3	b	1.0	1.3
	0612	09/17/86	0001	AL	D			0.7		1.0	0.8
	0612	09/19/87	0001	AL	D			0.5		1.0	0.9
	0612	04/03/89	0001	AL	D		<	0.8	b	1.0	0.8
	0613	09/18/86	0001	AL	D			0.8		1.0	0.9
	0613	09/18/87	0001	AL	D			0.5		1.0	1.0
	0614	09/18/87	0001	AL	D			1.1		1.0	1.2
	0614	10/11/88	0001	AL	D			1.1		1.0	0.8
	0614	04/03/89	0001	AL	D			0.2		1.0	0.9
	0614	06/01/90	0001	AL	D			1.2		1.0	0.8
	0614	10/07/90	0001	AL	D		<	2.8	b	1.0	2.8
	0615	09/18/87	0001	AL	D			0.5		1.0	1.3
	0615	04/03/89	0001	AL	D		<	0.9	b	1.0	0.9
	0615	06/01/90	0001	AL	D			1.4		1.0	0.8
	0615	10/09/90	0001	AL	D		<	3.0	b	1.0	3.0
	0616	09/15/86	0001	AL	D			0.2		1.0	1.0
0616	09/18/87	0001	AL	D		0.4		1.0	1.4		
0616	04/04/89	0001	AL	D		0.3		1.0	0.9		
0616	06/01/90	0001	AL	D		1.2		1.0	0.8		
0616	10/09/90	0001	AL	D	<	3.2	b	1.0	3.2		
0617	09/18/87	0001	AL	D		0.8		1.0	1.6		
0617	04/04/89	0001	AL	D		0.8		1.0	1.0		
0617	06/01/90	0001	AL	D		0.6		1.0	0.8		

B-113

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: b - CHANGED PARAMETER VALUE

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

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	0617	10/09/90	0001	AL	D	PCI/L	<	3.6	b	1.0	3.6
	0618	09/18/87	0001	AL	D			1.1		1.0	0.9
	0618	10/11/88	0001	AL	D			0.7		1.0	0.8
	0619	09/19/87	0001	AL	D			1.0		1.0	1.0
	0619	04/05/89	0001	AL	D			0.8		1.0	0.9
	0619	06/01/90	0001	AL	D			2.0		1.0	0.9
	0619	10/09/90	0001	AL	D		<	3.6	b	1.0	3.6
	0620	09/16/86	0001	AL	D			0.7		1.0	1.1
	0620	08/30/87	0001	AL	D			0.9		1.0	1.3
	0620	04/05/89	0001	AL	D		<	0.9	b	1.0	0.9
	0620	06/01/90	0001	AL	D			1.2		1.0	0.9
	0621	09/15/86	0001	AL	D			0.6		1.0	0.9
	0621	09/01/87	0001	AL	D			0.7		1.0	1.4
	0622	09/16/86	0001	AL	D			0.9		1.0	1.0
	0622	09/01/87	0001	AL	D			1.7		1.0	1.6
	0623	09/01/87	0001	AL	D			2.1		1.0	1.8
	0624	09/18/86	0001	AL	D			1.3		1.0	1.3
	0624	09/01/87	0001	AL	D			1.3		1.0	0.9
	0624	04/04/89	0001	AL	D			0.2		1.0	0.8
	0624	10/09/90	0001	AL	D			1.9		1.0	3.4
	0625	09/03/87	0001	AL	D			1.1		1.0	1.1
	0626	09/01/87	0001	AL	D			1.0		1.0	1.2
	0626	04/05/89	0001	AL	D			0.3		1.0	0.9
	0626	06/04/90	0001	AL	D			0.6		1.0	0.8
	0626	10/11/90	0001	AL	D			0.2		1.0	2.3
	0627	09/14/86	0001	AL	D			0.2		1.0	1.1
	0627	09/16/87	0001	AL	D			0.3		1.0	1.3
	0628	09/16/87	0001	AL	D			1.2	b	1.0	1.2
	0628	04/05/89	0001	AL	D		<	0.9	b	1.0	0.9
	0628	06/04/90	0001	AL	D			0.4		1.0	0.7
	0628	10/11/90	0001	AL	D			7.0		1.0	2.5
	0629	08/30/87	0001	AL	D			0.1		1.0	1.5
	0629	04/18/89	0001	AL	D			0.2		1.0	0.9
	0630	09/15/86	0001	AL	D			0.3		1.0	1.3
	0630	08/30/87	0001	AL	D			0.6		1.0	1.8
	0630	06/04/90	0001	AL	D			0.8		1.0	0.8
0630	10/10/90	0001	AL	D			3.0		1.0	2.5	
0631	09/20/86	0001	AL	D			0.3		1.0	0.9	
0631	08/30/87	0001	AL	D			1.0	b	1.0	1.0	
0632	09/20/86	0001	AL	D			1.4		1.0	1.0	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: b - CHANGED PARAMETER VALUE

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER		DETECTION LIMIT	PARAMETER UNCERTAINTY	
							PVI	VALUE			
RADIUM-228	0632	09/01/87	0001	AL	D	PCI/L		0.2	1.0	1.3	
	0632	11/12/87	0001	AL	D			0.5	1.0	2.4	
	0633	04/19/89	0001	AL	D			0.2	1.0	0.9	
	0638	03/19/87	0001	AL	D			0.5	1.0	1.2	
	0638	05/14/87	0001	AL	D			0.4	1.0	1.4	
	0638	09/25/87	0001	AL	D			0.4	1.0	1.1	
	0638	10/09/88	0001	AL	D			0.3	1.0	0.7	
	0638	04/20/89	0001	AL	D			0.7	b	1.0	0.7
	0639	03/19/87	0001	AL	D			0.8		1.0	0.9
	0639	05/14/87	0001	AL	D			0.9	b	1.0	0.9
	0639	09/25/87	0001	AL	D			0.6		1.0	1.2
	0639	10/09/88	0001	AL	D			0.2	c	0.90000	0.7
	0639	04/20/89	0001	AL	D			0.8	b	1.0	0.8
	0640	03/19/87	0001	AL	D			0.3		1.0	0.8
	0640	09/24/87	0001	AL	D			1.3	b	1.0	1.3
	0640	04/19/89	0001	AL	D			0.2		1.0	0.9
	0641	03/18/87	0001	AL	D			1.0	b	1.0	1.0
	0641	05/14/87	0001	AL	D			0.7		1.0	1.9
	0641	09/24/87	0001	AL	D			0.4		1.0	2.2
	0641	10/09/88	0001	AL	D			1.0		1.0	1.4
	0641	04/18/89	0001	AL	D			0.1	c	0.80000	0.7
	0642	03/19/87	0001	AL	D			1.1	b	1.0	1.1
	0642	05/20/87	0001	AL	D			0.7		1.0	1.1
	0642	09/23/87	0001	AL	D			1.6	b	1.0	1.6
	0642	04/18/89	0001	AL	D			1.6	b	1.0	1.6
	0643	03/19/87	0001	AL	D			0.1		1.0	1.3
	0643	09/24/87	0001	AL	D			1.6	b	1.0	1.6
	0643	04/18/89	0001	AL	D			0.4		1.0	0.8
	0644	03/18/87	0001	AL	D			0.7		1.0	1.3
	0644	05/20/87	0001	AL	D			0.1		1.0	1.2
	0644	09/23/87	0001	AL	D			0.6		1.0	1.8
	0644	10/09/88	0001	AL	D			0.4		1.0	0.8
0645	03/17/87	0001	AL	U		0.6		1.0	1.4		
0645	05/16/87	0001	AL	U		1.3	b	1.0	1.3		
0645	09/23/87	0001	AL	U		0.3		1.0	0.8		
0645	04/02/89	0001	AL	U		0.3		1.0	1.1		
0646	03/18/87	0001	AL	U		0.2		1.0	0.8		
0646	05/16/87	0001	AL	U		1.5	b	1.0	1.5		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: b - CHANGED PARAMETER VALUE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

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	0646	09/22/87	0001	AL	U	PCI/L		0.2		1.0	0.9
	0646	10/09/88	0001	AL	U			0.9		1.0	0.9
	0646	04/02/89	0001	AL	U		<	0.8	b	1.0	0.8
	0647	03/18/87	0001	AL	U		<	1.2	b	1.0	1.2
	0647	05/17/87	0001	AL	U		<	1.0	b	1.0	1.0
	0647	09/20/87	0001	AL	U		<	2.5	b	1.0	2.5
	0647	04/02/89	0001	AL	U			0.4		1.0	0.8
	0670	03/31/88	0001	AL	D		<	0.8	b	1.0	0.8
	0670	10/09/88	0001	AL	D			0.6		1.0	0.8
	0670	04/21/89	0001	AL	D			0.2		1.0	0.9
	0671	03/31/88	0001	AL	D			0.2		1.0	0.8
	0671	10/09/88	0001	AL	D			0.4		1.0	0.7
	0671	04/21/89	0001	AL	D			0.6		1.0	0.9
	0672	03/31/88	0001	AL	D			0.2		1.0	0.8
	0672	10/09/88	0001	AL	D			0.3		1.0	0.7
	0672	04/22/89	0001	AL	D		<	0.6	b	1.0	0.6
	SELENIUM	0601	09/19/86	0001	AL		U	MG/L	<	0.005	
0602		09/18/87	0001	AL	D		0.178			0.005	-
0603		09/03/87	0001	AL	D		0.002		c	0.002	-
0603		04/06/89	0001	AL	D		0.452			0.005	-
0603		06/04/90	0001	AL	D		.185			0.005	-
0604		09/03/87	0001	AL	D		0.184			0.005	-
0607		09/19/86	0001	AL	D		0.022			0.005	-
0607		09/01/87	0001	AL	D		0.434			0.005	-
0608		09/18/86	0001	AL	D	<	0.005			0.005	-
0608		09/22/87	0001	AL	D		0.250			0.005	-
0608		04/03/89	0001	AL	D		0.108			0.005	-
0608		06/01/90	0001	AL	D		.075			0.005	-
0608		10/07/90	0001	AL	D	<	0.03		Ic	0.03	-
0609		09/17/86	0001	AL	D	<	0.005			0.005	-
0609		09/21/87	0001	AL	D		0.228			0.005	-
0610		09/18/86	0001	AL	D	<	0.005			0.005	-
0610		09/21/87	0001	AL	D		0.158			0.005	-
0610		04/03/89	0001	AL	D		0.070			0.005	-
0610		06/01/90	0001	AL	D		.067			0.005	-
0610		10/07/90	0001	AL	D	<	0.03		Ic	0.03	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 U - UPGRADIENT
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS:
 I - INTERFERENCE-DILUTION OF SAMPLE
 b - CHANGED PARAMETER VALUE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SELENIUM	0611	09/19/87	0001	AL	D	MG/L		0.222		0.005	-
	0612	09/17/86	0001	AL	D		<	0.005		0.005	-
	0612	09/19/87	0001	AL	D			0.020		0.005	-
	0612	04/03/89	0001	AL	D			0.076		0.005	-
	0613	09/18/86	0001	AL	D		<	0.005		0.005	-
	0613	09/18/87	0001	AL	D			0.203		0.005	-
	0614	09/18/87	0001	AL	D			0.173		0.005	-
	0614	10/11/88	0001	AL	D			0.430		0.005	-
	0614	04/03/89	0001	AL	D			0.174		0.005	-
	0614	06/01/90	0001	AL	D			.056		0.005	-
	0614	10/07/90	0001	AL	D			0.110		0.005	-
	0615	09/18/87	0001	AL	D			0.255		0.005	-
	0615	04/03/89	0001	AL	D			0.122		0.005	-
	0615	06/01/90	0001	AL	D			.165		0.005	-
	0615	10/09/90	0001	AL	D			0.070		0.005	-
	0616	09/15/86	0001	AL	D		<	0.005		0.005	-
	0616	09/18/87	0001	AL	D			0.027		0.005	-
	0616	04/04/89	0001	AL	D			0.027		0.005	-
	0616	06/01/90	0001	AL	D			.023		0.005	-
	0616	10/09/90	0001	AL	D		<	0.03	Ic	0.03	-
	0617	09/18/87	0001	AL	D			0.077		0.005	-
	0617	04/04/89	0001	AL	D			0.037		0.005	-
	0617	06/01/90	0001	AL	D			.027		0.005	-
	0617	10/09/90	0001	AL	D		<	0.03	Ic	0.03	-
	0618	09/18/87	0001	AL	D			0.064		0.005	-
	0618	10/11/88	0001	AL	D			0.069		0.005	-
	0619	09/19/87	0001	AL	D			0.372		0.005	-
	0619	04/05/89	0001	AL	D			0.456		0.005	-
	0619	06/01/90	0001	AL	D			.144		0.005	-
	0619	10/09/90	0001	AL	D			0.105		0.005	-
	0620	09/16/86	0001	AL	D			0.020		0.005	-
	0620	08/30/87	0001	AL	D			0.361		0.005	-
	0620	04/05/89	0001	AL	D			0.318		0.005	-
0620	06/01/90	0001	AL	D		.075		0.005	-		
0621	09/15/86	0001	AL	D		0.023		0.005	-		
0621	09/01/87	0001	AL	D		0.329		0.005	-		
0622	09/16/86	0001	AL	D		0.041		0.005	-		
0622	09/01/87	0001	AL	D		0.395		0.005	-		
0623	09/01/87	0001	AL	D		0.700		0.005	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

B-117

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SELENIUM	0624	09/18/86	0001	AL	D	MG/L	0.041		0.005	-
	0624	09/01/87	0001	AL	D		0.976		0.005	-
	0624	04/04/89	0001	AL	D		0.381		0.005	-
	0624	10/09/90	0001	AL	D		0.065		0.005	-
	0625	09/03/87	0001	AL	D		0.764		0.005	-
	0626	09/01/87	0001	AL	D		0.225		0.005	-
	0626	04/05/89	0001	AL	D		0.072		0.005	-
	0626	06/04/90	0001	AL	D		.042		0.005	-
	0626	10/11/90	0001	AL	D		< 0.03	Ic	0.03	-
	0627	09/14/86	0001	AL	D		0.053		0.005	-
	0627	09/16/87	0001	AL	D		0.176		0.005	-
	0628	09/16/87	0001	AL	D		0.204		0.005	-
	0628	04/05/89	0001	AL	D		0.066		0.005	-
	0628	06/04/90	0001	AL	D		.086		0.005	-
	0628	10/11/90	0001	AL	D		0.065		0.005	-
	0629	08/30/87	0001	AL	D		0.104		0.005	-
	0629	04/18/89	0001	AL	D		0.047		0.005	-
	0630	09/15/86	0001	AL	D		0.021		0.005	-
	0630	08/30/87	0001	AL	D		0.110		0.005	-
	0630	06/04/90	0001	AL	D		.049		0.005	-
	0630	10/10/90	0001	AL	D		0.070		0.005	-
	0631	09/20/86	0001	AL	D		< 0.005		0.005	-
	0631	08/30/87	0001	AL	D		0.027		0.005	-
	0632	09/20/86	0001	AL	D		< 0.005		0.005	-
	0632	09/01/87	0001	AL	D		0.028		0.005	-
	0632	11/12/87	0001	AL	D		0.021		0.005	-
	0633	04/19/89	0001	AL	D		0.011		0.005	-
	0638	03/19/87	0001	AL	D		< 0.002		0.005	-
	0638	05/14/87	0001	AL	D		< 0.001		0.005	-
	0638	09/25/87	0001	AL	D		0.010		0.005	-
	0638	10/09/88	0001	AL	D		0.015		0.005	-
	0638	04/20/89	0001	AL	D		< 0.005		0.005	-
	0639	03/19/87	0001	AL	D		< 0.002		0.005	-
	0639	05/14/87	0001	AL	D		< 0.001		0.005	-
	0639	09/25/87	0001	AL	D		0.123		0.005	-
	0639	10/09/88	0001	AL	D		0.097		0.005	-
	0639	04/20/89	0001	AL	D		0.017		0.005	-
	0640	03/19/87	0001	AL	D		< 0.002		0.005	-
	0640	09/24/87	0001	AL	D		0.325		0.005	-

B-118

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY	
SELENIUM	0640	04/19/89	0001	AL	D	MG/L		0.065		0.005	-	
	0641	03/18/87	0001	AL	D		<	0.002		0.005	-	
	0641	05/14/87	0001	AL	D		<	0.001		0.005	-	
	0641	09/24/87	0001	AL	D				0.577		0.005	-
	0641	10/09/88	0001	AL	D				1.67		0.005	-
	0641	04/18/89	0001	AL	D				0.105		0.005	-
	0642	03/19/87	0001	AL	D		<	0.002		0.005	-	
	0642	05/20/87	0001	AL	D		<	0.001		0.005	-	
	0642	09/23/87	0001	AL	D				0.520		0.005	-
	0642	04/18/89	0001	AL	D				0.137		0.005	-
	0643	03/19/87	0001	AL	D				0.008		0.005	-
	0643	09/24/87	0001	AL	D				0.010		0.005	-
	0643	04/18/89	0001	AL	D				0.168		0.005	-
	0644	03/18/87	0001	AL	D		<	0.002		0.005	-	
	0644	05/20/87	0001	AL	D		<	0.001		0.005	-	
	0644	09/23/87	0001	AL	D				0.821		0.005	-
	0644	10/09/88	0001	AL	D				0.902		0.005	-
	0645	03/17/87	0001	AL	U		<	0.002		0.005	-	
	0645	05/16/87	0001	AL	U		<	0.001		0.005	-	
	0645	09/23/87	0001	AL	U				0.012		0.005	-
	0645	04/02/89	0001	AL	U				0.016		0.005	-
	0646	03/18/87	0001	AL	U		<	0.002		0.005	-	
	0646	05/16/87	0001	AL	U		<	0.001		0.005	-	
	0646	09/22/87	0001	AL	U				0.032		0.005	-
	0646	10/09/88	0001	AL	U				0.018		0.005	-
	0646	04/02/89	0001	AL	U				0.006		0.005	-
	0647	03/18/87	0001	AL	U		<	0.002		0.005	-	
	0647	05/17/87	0001	AL	U				0.001	c	0.001	-
	0647	09/20/87	0001	AL	U				0.004	c	0.004	-
	0647	04/02/89	0001	AL	U				0.018		0.005	-
	0670	01/20/88	0001	AL	D				0.014		0.005	-
	0670	03/31/88	0001	AL	D				0.012		0.005	-
0670	05/17/88	0001	AL	D			0.008		0.005	-		
0670	10/09/88	0001	AL	D			0.015		0.005	-		
0670	04/21/89	0001	AL	D			0.011		0.005	-		
0671	01/20/88	0001	AL	D			0.064		0.005	-		
0671	03/31/88	0001	AL	D			0.210		0.005	-		
0671	05/17/88	0001	AL	D			0.021		0.005	-		
0671	10/09/88	0001	AL	D			0.020		0.005	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)

APPENDIX B

SITE: SHP01 SHIPROCK

09/14/86 TO 01/08/91

REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SELENIUM	0671	04/21/89	0001	AL	D	MG/L	0.014		0.005	-
	0672	01/20/88	0001	AL	D		0.034		0.005	-
	0672	03/31/88	0001	AL	D		0.008		0.005	-
	0672	05/17/88	0001	AL	D		0.006		0.005	-
	0672	10/09/88	0001	AL	D		0.011		0.005	-
	0672	04/22/89	0001	AL	D		0.005		0.005	-
SILICA - SI02	0601	09/19/86	0001	AL	U	MG/L	7.		2.0	-
	0602	09/18/87	0001	AL	D		17.8		2.0	-
	0603	09/03/87	0001	AL	D		13.0		2.0	-
	0603	04/06/89	0001	AL	D		9.0		2.0	-
	0603	06/04/90	0001	AL	D		3.		2.0	-
	0604	09/03/87	0001	AL	D		12.9		2.0	-
	0607	09/19/86	0001	AL	D		7.		2.0	-
	0607	09/01/87	0001	AL	D		14.9		2.0	-
	0608	09/18/86	0001	AL	D		7.		2.0	-
	0608	09/22/87	0001	AL	D		11.7		2.0	-
	0608	04/03/89	0001	AL	D		9.0		2.0	-
	0608	06/01/90	0001	AL	D		11.		2.0	-
	0608	10/07/90	0001	AL	D		14.4		0.1	-
	0609	09/17/86	0001	AL	D		7.		2.0	-
	0609	09/21/87	0001	AL	D		13.0		2.0	-
	0610	09/18/86	0001	AL	D		7.		2.0	-
	0610	09/21/87	0001	AL	D		14.1		2.0	-
	0610	04/03/89	0001	AL	D		10.		2.0	-
	0610	06/01/90	0001	AL	D		12.		2.0	-
	0610	10/07/90	0001	AL	D		14.0		0.1	-
	0611	09/19/87	0001	AL	D		14.5		2.0	-
	0612	09/17/86	0001	AL	D		10.		2.0	-
	0612	09/19/87	0001	AL	D		16.8		2.0	-
	0612	04/03/89	0001	AL	D		13.		2.0	-
	0613	09/18/86	0001	AL	D		9.0		2.0	-
	0613	09/18/87	0001	AL	D		14.7		2.0	-
	0614	09/18/87	0001	AL	D		15.6		2.0	-
0614	04/03/89	0001	AL	D		11.		2.0	-	
0614	06/01/90	0001	AL	D		13.		2.0	-	
0614	10/07/90	0001	AL	D		7.3		0.1	-	
0615	09/18/87	0001	AL	D		15.4		2.0	-	
0615	04/03/89	0001	AL	D		10.		2.0	-	
0615	06/01/90	0001	AL	D		10.		2.0	-	

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

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	0615	10/09/90	0001	AL	D	MG/L	14.7		0.1	-
	0616	09/15/86	0001	AL	D		10.		2.0	-
	0616	09/18/87	0001	AL	D		17.6		2.0	-
	0616	04/04/89	0001	AL	D		15.		2.0	-
	0616	06/01/90	0001	AL	D		16.		2.0	-
	0616	10/09/90	0001	AL	D		17.9		0.1	-
	0617	09/18/87	0001	AL	D		17.1		2.0	-
	0617	04/04/89	0001	AL	D		14.		2.0	-
	0617	06/01/90	0001	AL	D		14.		2.0	-
	0617	10/09/90	0001	AL	D		12.8		0.1	-
	0618	09/18/87	0001	AL	D		17.2		2.0	-
	0619	09/19/87	0001	AL	D		14.7		2.0	-
	0619	04/05/89	0001	AL	D		12.		2.0	-
	0619	06/01/90	0001	AL	D		11.		2.0	-
	0619	10/09/90	0001	AL	D		11.2		0.1	-
	0620	09/16/86	0001	AL	D		6.		2.0	-
	0620	08/30/87	0001	AL	D		12.3		2.0	-
	0620	04/05/89	0001	AL	D		11.		2.0	-
	0620	06/01/90	0001	AL	D		12.		2.0	-
	0621	09/15/86	0001	AL	D		7.		2.0	-
	0621	09/01/87	0001	AL	D		12.3		2.0	-
	0622	09/16/86	0001	AL	D		8.		2.0	-
	0622	09/01/87	0001	AL	D		16.1		2.0	-
	0623	09/01/87	0001	AL	D		16.3		2.0	-
	0624	09/18/86	0001	AL	D		8.		2.0	-
	0624	09/01/87	0001	AL	D		15.8		2.0	-
	0624	04/04/89	0001	AL	D		14.		2.0	-
	0624	10/09/90	0001	AL	D		15.6		0.1	-
	0625	09/03/87	0001	AL	D		17.0		2.0	-
	0626	09/01/87	0001	AL	D		13.4		2.0	-
	0626	04/05/89	0001	AL	D		11.		2.0	-
	0626	06/04/90	0001	AL	D		11.		2.0	-
	0626	10/11/90	0001	AL	D		11.9		0.1	-
	0627	09/14/86	0001	AL	D		7.		2.0	-
	0627	09/16/87	0001	AL	D		11.4		2.0	-
	0628	09/16/87	0001	AL	D		11.8		2.0	-
	0628	04/05/89	0001	AL	D		11.		2.0	-
	0628	06/04/90	0001	AL	D		12.		2.0	-
	0628	10/11/90	0001	AL	D		13.3		0.1	-
	0629	08/30/87	0001	AL	D		12.5		2.0	-
0629	04/18/89	0001	AL	D	11.		2.0	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

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	0630	09/15/86	0001	AL	D	MG/L	7.		2.0	-	
	0630	08/30/87	0001	AL	D		12.0		2.0	-	
	0630	06/04/90	0001	AL	D		12.		2.0	-	
	0630	10/10/90	0001	AL	D		13.1		0.1	-	
	0631	09/20/86	0001	AL	D		9.0		2.0	-	
	0631	08/30/87	0001	AL	D		16.4		2.0	-	
	0632	09/20/86	0001	AL	D		10.		2.0	-	
	0632	09/01/87	0001	AL	D		19.1		2.0	-	
	0632	11/12/87	0001	AL	D		17.3		2.0	-	
	0633	04/19/89	0001	AL	D		<	2.		2.0	-
	0638	03/19/87	0001	AL	D		12.5		2.0	-	
	0638	05/14/87	0001	AL	D		17.0		2.0	-	
	0638	09/25/87	0001	AL	D		14.3		2.0	-	
	0638	04/20/89	0001	AL	D		11.		2.0	-	
	0639	03/19/87	0001	AL	D		16.9		2.0	-	
	0639	05/14/87	0001	AL	D		19.1		2.0	-	
	0639	09/25/87	0001	AL	D		19.0		2.0	-	
	0639	04/20/89	0001	AL	D		16.		2.0	-	
	0640	03/19/87	0001	AL	D		10.0		2.0	-	
	0640	09/24/87	0001	AL	D		11.5		2.0	-	
	0640	04/19/89	0001	AL	D		8.		2.0	-	
	0641	03/18/87	0001	AL	D		12.1		2.0	-	
	0641	05/14/87	0001	AL	D		18.2		2.0	-	
	0641	09/24/87	0001	AL	D		13.0		2.0	-	
	0641	04/18/89	0001	AL	D		12.		2.0	-	
	0642	03/19/87	0001	AL	D		15.9		2.0	-	
	0642	05/20/87	0001	AL	D		18.3		2.0	-	
	0642	09/23/87	0001	AL	D		13.8		2.0	-	
	0642	04/18/89	0001	AL	D		10.		2.0	-	
	0643	03/19/87	0001	AL	D		12.2		2.0	-	
	0643	09/24/87	0001	AL	D		4.99		2.0	-	
	0643	04/18/89	0001	AL	D		5.		2.0	-	
	0644	03/18/87	0001	AL	D		12.0		2.0	-	
	0644	05/20/87	0001	AL	D		18.9		2.0	-	
0644	09/23/87	0001	AL	D	10.1		2.0	-			
0645	03/17/87	0001	AL	U	10.5		2.0	-			
0645	05/16/87	0001	AL	U	12.9		2.0	-			
0645	09/23/87	0001	AL	U	11.7		2.0	-			
0645	04/02/89	0001	AL	U	10.		2.0	-			
0646	03/18/87	0001	AL	U	9.9		2.0	-			

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SILICA - SI02	0646	05/16/87	0001	AL	U	MG/L		12.9		2.0	-
	0646	09/22/87	0001	AL	U		12.2	2.0	-		
	0646	04/02/89	0001	AL	U		9.0	2.0	-		
	0647	03/18/87	0001	AL	U		7.7	2.0	-		
	0647	05/17/87	0001	AL	U		13.0	2.0	-		
	0647	09/20/87	0001	AL	U		10.7	2.0	-		
	0647	04/02/89	0001	AL	U		10.	2.0	-		
	0670	01/20/88	0001	AL	D		19.2	2.0	-		
	0670	03/31/88	0001	AL	D		18.6	2.0	-		
	0670	05/17/88	0001	AL	D		19.0	2.0	-		
	0670	04/21/89	0001	AL	D		17.	2.0	-		
	0671	01/20/88	0001	AL	D		15.4	2.0	-		
	0671	03/31/88	0001	AL	D		20.0	2.0	-		
	0671	05/17/88	0001	AL	D		21.1	2.0	-		
	0671	04/21/89	0001	AL	D		20.	2.0	-		
	0672	01/20/88	0001	AL	D		15.2	2.0	-		
	0672	03/31/88	0001	AL	D		17.9	2.0	-		
	0672	05/17/88	0001	AL	D		18.3	2.0	-		
0672	04/22/89	0001	AL	D	17.	2.0	-				
SILVER	0601	09/19/86	0001	AL	U	MG/L	<	0.01		0.01	-
	0603	04/06/89	0001	AL	D		<	0.01		0.01	-
	0603	06/04/90	0001	AL	D		<	.01		0.01	-
	0607	09/19/86	0001	AL	D		<	0.01		0.01	-
	0608	09/18/86	0001	AL	D		<	0.01		0.01	-
	0608	04/03/89	0001	AL	D		<	0.01		0.01	-
	0608	06/01/90	0001	AL	D		<	.01		0.01	-
	0608	10/07/90	0001	AL	D		<	0.02	Ic	0.02	-
	0609	09/17/86	0001	AL	D		<	0.01		0.01	-
	0610	09/18/86	0001	AL	D		<	0.01		0.01	-
	0610	04/03/89	0001	AL	D		<	0.01		0.01	-
	0610	06/01/90	0001	AL	D		<	.01		0.01	-
	0610	10/07/90	0001	AL	D		<	0.01		0.01	-
	0612	09/17/86	0001	AL	D		<	0.01		0.01	-
	0612	04/03/89	0001	AL	D		<	0.01		0.01	-
	0613	09/18/86	0001	AL	D		<	0.01		0.01	-
	0614	10/11/88	0001	AL	D		<	0.03		0.01	-
	0614	04/03/89	0001	AL	D		<	0.01		0.01	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 U - UPGRADIENT
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI	VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SILVER	0614	06/01/90	0001	AL	D	MG/L	<	.01		0.01	-
	0614	10/07/90	0001	AL	D		<	0.01		0.01	-
	0615	04/03/89	0001	AL	D		<	0.01		0.01	-
	0615	06/01/90	0001	AL	D		<	.01		0.01	-
	0615	10/09/90	0001	AL	D			0.02		0.01	-
	0616	09/15/86	0001	AL	D		<	0.1	c	0.1	-
	0616	04/04/89	0001	AL	D		<	0.01		0.01	-
	0616	06/01/90	0001	AL	D		<	.01		0.01	-
	0616	10/09/90	0001	AL	D		<	0.01		0.01	-
	0617	04/04/89	0001	AL	D		<	0.01		0.01	-
	0617	06/01/90	0001	AL	D		<	.01		0.01	-
	0617	10/09/90	0001	AL	D		<	0.01		0.01	-
	0618	10/11/88	0001	AL	D			0.02		0.01	-
	0619	04/05/89	0001	AL	D		<	0.01		0.01	-
	0619	06/01/90	0001	AL	D		<	.01		0.01	-
	0619	10/09/90	0001	AL	D		<	0.01		0.01	-
	0620	09/16/86	0001	AL	D		<	0.01		0.01	-
	0620	04/05/89	0001	AL	D		<	0.01		0.01	-
	0620	06/01/90	0001	AL	D		<	.01		0.01	-
	0621	09/15/86	0001	AL	D		<	0.01		0.01	-
	0622	09/16/86	0001	AL	D		<	0.01		0.01	-
	0624	09/18/86	0001	AL	D		<	0.01		0.01	-
	0624	04/04/89	0001	AL	D		<	0.01		0.01	-
	0624	10/09/90	0001	AL	D		<	0.01		0.01	-
	0626	04/05/89	0001	AL	D		<	0.01		0.01	-
	0626	06/04/90	0001	AL	D		<	.01		0.01	-
	0626	10/11/90	0001	AL	D		<	0.01		0.01	-
	0627	09/14/86	0001	AL	D		<	0.01		0.01	-
	0628	04/05/89	0001	AL	D		<	0.01		0.01	-
	0628	06/04/90	0001	AL	D		<	.01		0.01	-
	0628	10/11/90	0001	AL	D		<	0.01		0.01	-
	0630	09/15/86	0001	AL	D		<	0.01		0.01	-
	0630	06/04/90	0001	AL	D		<	.01		0.01	-
0630	10/10/90	0001	AL	D		<	0.01		0.01	-	
0631	09/20/86	0001	AL	D		<	0.01		0.01	-	
0632	09/20/86	0001	AL	D		<	0.01		0.01	-	
0633	04/19/89	0001	AL	D		<	0.01		0.01	-	
0638	10/09/88	0001	AL	D		<	0.01		0.01	-	
0638	04/20/89	0001	AL	D		<	0.01		0.01	-	
0639	10/09/88	0001	AL	D			0.02		0.01	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SILVER	0639	04/20/89	0001	AL	D	MG/L	<	0.01		0.01	-
	0640	04/19/89	0001	AL	D		<	0.01		0.01	-
	0641	10/09/88	0001	AL	D			0.02		0.01	-
	0641	04/18/89	0001	AL	D		<	0.01		0.01	-
	0642	04/18/89	0001	AL	D		<	0.01		0.01	-
	0643	04/18/89	0001	AL	D		<	0.01		0.01	-
	0644	10/09/88	0001	AL	D			0.02		0.01	-
	0645	04/02/89	0001	AL	U		<	0.01		0.01	-
	0646	10/09/88	0001	AL	U			0.01		0.01	-
	0646	04/02/89	0001	AL	U		<	0.01		0.01	-
	0647	04/02/89	0001	AL	U		<	0.01		0.01	-
	0670	10/09/88	0001	AL	D		<	0.01		0.01	-
	0670	04/21/89	0001	AL	D		<	0.01		0.01	-
	0671	10/09/88	0001	AL	D		<	0.01		0.01	-
	0671	04/21/89	0001	AL	D		<	0.01		0.01	-
	0672	10/09/88	0001	AL	D		<	0.01		0.01	-
0672	04/22/89	0001	AL	D		<	0.01		0.01	-	
SODIUM	0601	09/19/86	0001	AL	U	MG/L		98.9		0.002	-
	0602	09/18/87	0001	AL	D			351.		0.002	-
	0603	09/03/87	0001	AL	D			7393.		0.002	-
	0603	04/06/89	0001	AL	D			4970.		0.002	-
	0603	06/04/90	0001	AL	D			2070.		0.002	-
	0604	09/03/87	0001	AL	D			1616.		0.002	-
	0607	09/19/86	0001	AL	D			3400.0		0.002	-
	0607	09/01/87	0001	AL	D			3563.		0.002	-
	0608	09/18/86	0001	AL	D			1220.0		0.002	-
	0608	09/22/87	0001	AL	D			2642.		0.002	-
	0608	04/03/89	0001	AL	D			2410.		0.002	-
	0608	06/01/90	0001	AL	D			2630.		0.002	-
	0608	10/07/90	0001	AL	D			2630.		0.002	-
	0609	09/17/86	0001	AL	D			910.0		0.002	-
	0609	09/21/87	0001	AL	D			2637.		0.002	-
	0610	09/18/86	0001	AL	D			870.0		0.002	-
	0610	09/21/87	0001	AL	D			1576.		0.002	-
	0610	04/03/89	0001	AL	D			1590.		0.002	-
0610	06/01/90	0001	AL	D			2040.		0.002	-	
0610	10/07/90	0001	AL	D			2100.		0.002	-	
0611	09/19/87	0001	AL	D			1979.		0.002	-	
0612	09/17/86	0001	AL	D			302.0		0.002	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
APPENDIX B
SITE: SHP01 SHIPROCK
09/14/86 TO 01/08/91
REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI	VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SODIUM	0612	09/19/87	0001	AL	D	MG/L		235.		0.002	-
	0612	04/03/89	0001	AL	D			133.		0.002	-
	0613	09/18/86	0001	AL	D			1280.0		0.002	-
	0613	09/18/87	0001	AL	D			1164.		0.002	-
	0614	09/18/87	0001	AL	D			1110.		0.002	-
	0614	10/11/88	0001	AL	D			1330.		0.002	-
	0614	04/03/89	0001	AL	D			1090.		0.002	-
	0614	06/01/90	0001	AL	D			1360.		0.002	-
	0614	10/07/90	0001	AL	D			1660.		0.002	-
	0615	09/18/87	0001	AL	D			2107.		0.002	-
	0615	04/03/89	0001	AL	D			1650.		0.002	-
	0615	06/01/90	0001	AL	D			3560.		0.002	-
	0615	10/09/90	0001	AL	D			3630.		0.002	-
	0616	09/15/86	0001	AL	D			288.0		0.002	-
	0616	09/18/87	0001	AL	D			366.		0.002	-
	0616	04/04/89	0001	AL	D			431.		0.002	-
	0616	06/01/90	0001	AL	D			421.		0.002	-
	0616	10/09/90	0001	AL	D			403.		0.002	-
	0617	09/18/87	0001	AL	D			630.		0.002	-
	0617	04/04/89	0001	AL	D			615.		0.002	-
	0617	06/01/90	0001	AL	D			754.		0.002	-
	0617	10/09/90	0001	AL	D			850.		5.	-
	0618	09/18/87	0001	AL	D			550.		0.002	-
	0618	10/11/88	0001	AL	D			524.		0.002	-
	0619	09/19/87	0001	AL	D			3025.		0.002	-
	0619	04/05/89	0001	AL	D			3540.		0.002	-
	0619	06/01/90	0001	AL	D			3800.		0.002	-
	0619	10/09/90	0001	AL	D			3190.		5.	-
	0620	09/16/86	0001	AL	D			3720.0		0.002	-
	0620	08/30/87	0001	AL	D			3584.		0.002	-
	0620	04/05/89	0001	AL	D			2490.		0.002	-
	0620	06/01/90	0001	AL	D			2220.		0.002	-
	0621	09/15/86	0001	AL	D			3520.0		0.002	-
	0621	09/01/87	0001	AL	D			3738.		0.002	-
	0622	09/16/86	0001	AL	D			3200.0		0.002	-
	0622	09/01/87	0001	AL	D			3756.		0.002	-
	0623	09/01/87	0001	AL	D			3348.		0.002	-
	0624	09/18/86	0001	AL	D			3200.0		0.002	-
	0624	09/01/87	0001	AL	D			3532.		0.002	-
	0624	04/04/89	0001	AL	D			3210.		0.002	-
0624	10/09/90	0001	AL	D			2270.		0.002	-	

FORMATION OF COMPLETION CODE:

AL - ALLUVIUM

FLOW RELATIONSHIP CODE:

D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SODIUM	0625	09/03/87	0001	AL	D	MG/L	3325.		0.002	-
	0626	09/01/87	0001	AL	D		2574.		0.002	-
	0626	04/05/89	0001	AL	D		1510.		0.002	-
	0626	06/04/90	0001	AL	D		1540.		0.002	-
	0626	10/11/90	0001	AL	D		1320.		0.002	-
	0627	09/14/86	0001	AL	D		2500.0		0.002	-
	0627	09/16/87	0001	AL	D		1683.		0.002	-
	0628	09/16/87	0001	AL	D		1889.		0.002	-
	0628	04/05/89	0001	AL	D		1310.		0.002	-
	0628	06/04/90	0001	AL	D		1450.		0.002	-
	0628	10/11/90	0001	AL	D		1410.		0.002	-
	0629	08/30/87	0001	AL	D		1021.		0.002	-
	0629	04/18/89	0001	AL	D		882.		0.002	-
	0630	09/15/86	0001	AL	D		1110.0		0.002	-
	0630	08/30/87	0001	AL	D		1021.		0.002	-
	0630	06/04/90	0001	AL	D		1090.		0.002	-
	0630	10/10/90	0001	AL	D		1060.		5.	-
	0631	09/20/86	0001	AL	D		750.0		0.002	-
	0631	08/30/87	0001	AL	D		759.		0.002	-
	0632	09/20/86	0001	AL	D		750.0		0.002	-
	0632	09/01/87	0001	AL	D		754.		0.002	-
	0632	11/12/87	0001	AL	D		640.		0.002	-
	0633	04/19/89	0001	AL	D		920.		0.002	-
	0638	03/19/87	0001	AL	D		950.		0.002	-
	0638	05/14/87	0001	AL	D		838.		0.002	-
	0638	09/25/87	0001	AL	D		137.		0.002	-
	0638	10/09/88	0001	AL	D		138.		0.002	-
	0638	04/20/89	0001	AL	D		268.		0.002	-
	0639	03/19/87	0001	AL	D		1100.		0.002	-
	0639	05/14/87	0001	AL	D		528.		0.002	-
	0639	09/25/87	0001	AL	D		875.		0.002	-
	0639	10/09/88	0001	AL	D		840.		0.002	-
	0639	04/20/89	0001	AL	D		570.		0.002	-
	0640	03/19/87	0001	AL	D		2330.		0.002	-
	0640	09/24/87	0001	AL	D		2629.		0.002	-
	0640	04/19/89	0001	AL	D		2050.		0.002	-
	0641	03/18/87	0001	AL	D		5760.		0.002	-
	0641	05/14/87	0001	AL	D		5300.		0.002	-
	0641	09/24/87	0001	AL	D		5175.		0.002	-
	0641	10/09/88	0001	AL	D		7490.		0.002	-
0641	04/18/89	0001	AL	D	3780.		0.002	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

B-127

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SODIUM	0642	03/19/87	0001	AL	D	MG/L	2480.		0.002	-
	0642	05/20/87	0001	AL	D		1910.		0.002	-
	0642	09/23/87	0001	AL	D		4506.		0.002	-
	0642	04/18/89	0001	AL	D		3230.		0.002	-
	0643	03/19/87	0001	AL	D		13200.		0.002	-
	0643	09/24/87	0001	AL	D		10464.		0.002	-
	0643	04/18/89	0001	AL	D		2630.		0.002	-
	0644	03/18/87	0001	AL	D		3000.		0.002	-
	0644	05/20/87	0001	AL	D		5490.		0.002	-
	0644	09/23/87	0001	AL	D		6470.		0.002	-
	0644	10/09/88	0001	AL	D		3990.		0.002	-
	0645	03/17/87	0001	AL	U		102.		0.002	-
	0645	05/16/87	0001	AL	U		57.0		0.002	-
	0645	09/23/87	0001	AL	U		40.4		0.002	-
	0645	04/02/89	0001	AL	U		336.		0.002	-
	0646	03/18/87	0001	AL	U		239.		0.002	-
	0646	05/16/87	0001	AL	U		276.		0.002	-
	0646	09/22/87	0001	AL	U		153.		0.002	-
	0646	10/09/88	0001	AL	U		120.		0.002	-
	0646	04/02/89	0001	AL	U		126.		0.002	-
	0647	03/18/87	0001	AL	U		542.		0.002	-
	0647	05/17/87	0001	AL	U		120.		0.002	-
	0647	09/20/87	0001	AL	U		24.6		0.002	-
	0647	04/02/89	0001	AL	U		391.		0.002	-
	0670	01/20/88	0001	AL	D		343.		0.002	-
	0670	03/31/88	0001	AL	D		179.		0.002	-
	0670	05/17/88	0001	AL	D		152.		0.002	-
	0670	10/09/88	0001	AL	D		116.		0.002	-
	0670	04/21/89	0001	AL	D		128.		0.002	-
	0671	01/20/88	0001	AL	D		1133.		0.002	-
	0671	03/31/88	0001	AL	D		807.		0.002	-
	0671	05/17/88	0001	AL	D		431.		0.002	-
	0671	10/09/88	0001	AL	D		176.		0.002	-
0671	04/21/89	0001	AL	D	176.		0.002	-		
0672	01/20/88	0001	AL	D	573.		0.002	-		
0672	03/31/88	0001	AL	D	139.		0.002	-		
0672	05/17/88	0001	AL	D	150.		0.002	-		
0672	10/09/88	0001	AL	D	96.		0.002	-		
0672	04/22/89	0001	AL	D	90.		0.002	-		
SPECIFIC CONDUCTANCE	0601	09/19/86	0001	AL	U	UMHO/CM	575.0		-	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SPECIFIC CONDUCTANCE	0602	09/18/87	0001	AL	D	UMHO/CM	2700.		-	-
	0603	09/03/87	0001	AL	D		16000.		-	-
	0603	04/06/89	0001	AL	D		9500.		-	-
	0603	06/04/90	0001	AL	D		25000.		-	-
	0604	09/03/87	0001	AL	D		3700.		-	-
	0607	09/19/86	0001	AL	D		8000.0		-	-
	0607	09/01/87	0001	AL	D		10050.		-	-
	0608	09/18/86	0001	AL	D		8750.0		-	-
	0608	09/22/87	0001	AL	D		7000.		-	-
	0608	04/03/89	0001	AL	D		8500.		-	-
	0608	06/01/90	0001	AL	D		13000.		-	-
	0608	10/07/90	0001	AL	D		17900.		-	-
	0609	09/17/86	0001	AL	D		9000.0		-	-
	0609	09/21/87	0001	AL	D		5690.		-	-
	0610	09/18/86	0001	AL	D		7000.0		-	-
	0610	09/21/87	0001	AL	D		4900.		-	-
	0610	04/03/89	0001	AL	D		6250.		-	-
	0610	06/01/90	0001	AL	D		11000.		-	-
	0610	10/07/90	0001	AL	D		12200.		-	-
	0611	09/19/87	0001	AL	D		4910.		-	-
	0612	09/17/86	0001	AL	D		2000.0		-	-
	0612	09/19/87	0001	AL	D		1800.		-	-
	0612	04/03/89	0001	AL	D		1175.		-	-
	0613	09/18/86	0001	AL	D		7750.0		-	-
	0613	09/18/87	0001	AL	D		4320.		-	-
	0614	09/18/87	0001	AL	D		4275.		-	-
	0614	10/11/88	0001	AL	D		8500.		-	-
	0614	04/03/89	0001	AL	D		6100.		-	-
	0614	06/01/90	0001	AL	D		7500.		-	-
	0614	10/07/90	0001	AL	D		11000.		-	-
	0615	09/18/87	0001	AL	D		5610.		-	-
	0615	04/03/89	0001	AL	D		10000.		-	-
	0615	06/01/90	0001	AL	D		14500.		-	-
0615	10/09/90	0001	AL	D	2000.		-	-		
0616	09/15/86	0001	AL	D	2000.0		-	-		
0616	09/18/87	0001	AL	D	2150.		-	-		
0616	04/04/89	0001	AL	D	2600.		-	-		
0616	06/01/90	0001	AL	D	3200.		-	-		
0616	10/09/90	0001	AL	D	4250.		-	-		
0617	09/18/87	0001	AL	D	3420.		-	-		
0617	04/04/89	0001	AL	D	3800.		-	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SPECIFIC CONDUCTANCE	0617	06/01/90	0001	AL	D	UMHO/CM	5000.		-	-
	0617	10/09/90	0001	AL	D		6800.		-	-
	0618	09/18/87	0001	AL	D		3190.		-	-
	0618	10/11/88	0001	AL	D		4900.		-	-
	0619	09/19/87	0001	AL	D		5700.		-	-
	0619	04/05/89	0001	AL	D		12500.		-	-
	0619	06/01/90	0001	AL	D		12000.		-	-
	0619	10/09/90	0001	AL	D		14100.		-	-
	0620	09/16/86	0001	AL	D		11000.0		-	-
	0620	08/30/87	0001	AL	D		9500.		-	-
	0620	04/05/89	0001	AL	D		7500.		-	-
	0620	06/01/90	0001	AL	D		8000.		-	-
	0621	09/15/86	0001	AL	D		10000.0		-	-
	0621	09/01/87	0001	AL	D		10800.		-	-
	0622	09/16/86	0001	AL	D		10750.0		-	-
	0622	09/01/87	0001	AL	D		9000.		-	-
	0623	09/01/87	0001	AL	D		11500.		-	-
	0624	09/18/86	0001	AL	D		11000.0		-	-
	0624	09/01/87	0001	AL	D		10200.		-	-
	0624	04/04/89	0001	AL	D		11000.		-	-
	0624	10/09/90	0001	AL	D		10400.		-	-
	0625	09/03/87	0001	AL	D		11200.		-	-
	0626	09/01/87	0001	AL	D		4520.		-	-
	0626	04/05/89	0001	AL	D		4650.		-	-
	0626	06/04/90	0001	AL	D		4550.		-	-
	0626	10/11/90	0001	AL	D		5200.		-	-
	0627	09/14/86	0001	AL	D		6500.0		-	-
	0627	09/16/87	0001	AL	D		3690.		-	-
	0628	09/16/87	0001	AL	D		3910.		-	-
	0628	04/05/89	0001	AL	D		4000.		-	-
	0628	06/04/90	0001	AL	D		4000.		-	-
	0628	10/11/90	0001	AL	D		5300.		-	-
0629	08/30/87	0001	AL	D	3750.		-	-		
0629	04/18/89	0001	AL	D	3300.		-	-		
0630	09/15/86	0001	AL	D	4250.0		-	-		
0630	08/30/87	0001	AL	D	3300.		-	-		
0630	06/04/90	0001	AL	D	3850.		-	-		
0630	10/10/90	0001	AL	D	4610.		-	-		
0631	09/20/86	0001	AL	D	3800.0		-	-		
0631	08/30/87	0001	AL	D	3600.		-	-		
0632	09/20/86	0001	AL	D	3800.0		-	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SPECIFIC CONDUCTANCE	0632	09/01/87	0001	AL	D	UMHO/CM	3000.		-	-
	0632	11/12/87	0001	AL	D		3500.		-	-
	0633	04/19/89	0001	AL	D		3100.		-	-
	0638	03/19/87	0001	AL	D		2400.		-	-
	0638	05/14/87	0001	AL	D		3300.		-	-
	0638	09/25/87	0001	AL	D		680.		-	-
	0638	10/09/88	0001	AL	D		800.		-	-
	0638	04/20/89	0001	AL	D		1700.		-	-
	0639	03/19/87	0001	AL	D		3150.		-	-
	0639	05/14/87	0001	AL	D		1825.		-	-
	0639	09/25/87	0001	AL	D		2600.		-	-
	0639	10/09/88	0001	AL	D		1100.		-	-
	0639	04/20/89	0001	AL	D		3500.		-	-
	0640	03/19/87	0001	AL	D		9000.		-	-
	0640	09/24/87	0001	AL	D		5500.		-	-
	0640	04/19/89	0001	AL	D		4600.		-	-
	0641	03/18/87	0001	AL	D		16500.		-	-
	0641	05/14/87	0001	AL	D		6500.		-	-
	0641	09/24/87	0001	AL	D		6000.		-	-
	0641	10/09/88	0001	AL	D		27500.		-	-
	0641	04/18/89	0001	AL	D		10000.		-	-
	0642	03/19/87	0001	AL	D		11500.		-	-
	0642	05/20/87	0001	AL	D		4500.		-	-
	0642	09/23/87	0001	AL	D		7250.		-	-
	0642	04/18/89	0001	AL	D		12000.		-	-
	0643	03/19/87	0001	AL	D		30500.		-	-
	0643	09/24/87	0001	AL	D		10490.		-	-
	0643	04/18/89	0001	AL	D		13500.		-	-
	0644	03/18/87	0001	AL	D		20000.		-	-
	0644	05/20/87	0001	AL	D		10000.		-	-
	0644	09/23/87	0001	AL	D		7500.		-	-
	0644	10/09/88	0001	AL	D		16000.		-	-
	0644	04/18/89	0001	AL	D		4100.		-	-
0645	03/17/87	0001	AL	U	750.		-	-		
0645	05/16/87	0001	AL	U	575.		-	-		
0645	09/23/87	0001	AL	U	410.		-	-		
0645	04/02/89	0001	AL	U	750.		-	-		
0646	03/18/87	0001	AL	U	1300.		-	-		
0646	05/16/87	0001	AL	U	1200.		-	-		
0646	09/22/87	0001	AL	U	1020.		-	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

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	0646	10/09/88	0001	AL	U	UMHO/CM		1475.		-	-
	0646	04/02/89	0001	AL	U		750.	-	-		
	0647	03/18/87	0001	AL	U		1700.	-	-		
	0647	05/17/87	0001	AL	U		550.	-	-		
	0647	09/20/87	0001	AL	U		330.	-	-		
	0647	04/02/89	0001	AL	U		1750.	-	-		
	0670	01/20/88	0001	AL	D		1700.	-	-		
	0670	05/17/88	0001	AL	D		1450.	-	-		
	0670	10/09/88	0001	AL	D		1250.	-	-		
	0670	04/21/89	0001	AL	D		1350.	-	-		
	0671	01/20/88	0001	AL	D		2900.	-	-		
	0671	05/17/88	0001	AL	D		2700.	-	-		
	0671	10/09/88	0001	AL	D		1425.	-	-		
	0671	04/21/89	0001	AL	D		1700.	-	-		
	0672	01/20/88	0001	AL	D		2350.	-	-		
	0672	05/17/88	0001	AL	D		1550.	-	-		
	0672	10/09/88	0001	AL	D		1000.	-	-		
	0672	04/22/89	0001	AL	D		950.	-	-		
STRONTIUM	0601	09/19/86	0001	AL	U	MG/L		1.1		0.1	-
	0602	09/18/87	0001	AL	D		4.50	0.1	-		
	0603	09/03/87	0001	AL	D		25.0	0.1	-		
	0603	04/06/89	0001	AL	D		13.9	0.1	-		
	0603	06/04/90	0001	AL	D		4.09	0.1	-		
	0604	09/03/87	0001	AL	D		8.35	0.1	-		
	0607	09/19/86	0001	AL	D		16.6	0.1	-		
	0607	09/01/87	0001	AL	D		15.0	0.1	-		
	0608	09/18/86	0001	AL	D		12.4	0.1	-		
	0608	09/22/87	0001	AL	D		15.8	0.1	-		
	0608	04/03/89	0001	AL	D		14.1	0.1	-		
	0608	06/01/90	0001	AL	D		14.1	0.1	-		
	0608	10/07/90	0001	AL	D		13.1	0.01	-		
	0609	09/17/86	0001	AL	D		11.3	0.1	-		
	0609	09/21/87	0001	AL	D		15.0	0.1	-		
	0610	09/18/86	0001	AL	D		7.9	0.1	-		
	0610	09/21/87	0001	AL	D		9.55	0.1	-		
	0610	04/03/89	0001	AL	D		10.0	1.0	-		
	0610	06/01/90	0001	AL	D		10.4	0.1	-		
	0610	10/07/90	0001	AL	D		10.7	0.01	-		
0611	09/19/87	0001	AL	D	12.0	0.1	-				

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 U - UPGRADIENT
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
STRONTIUM	0612	09/17/86	0001	AL	D	MG/L		2.0		0.1	-
	0612	09/19/87	0001	AL	D		2.10	0.1	-		
	0612	04/03/89	0001	AL	D		1.7	0.1	-		
	0613	09/18/86	0001	AL	D		12.2	0.1	-		
	0613	09/18/87	0001	AL	D		8.70	0.1	-		
	0614	09/18/87	0001	AL	D		8.50	0.1	-		
	0614	10/11/88	0001	AL	D		8.1	0.1	-		
	0614	04/03/89	0001	AL	D		7.5	0.1	-		
	0614	06/01/90	0001	AL	D		7.83	0.1	-		
	0614	10/07/90	0001	AL	D		9.1	0.01	-		
	0615	09/18/87	0001	AL	D		10.1	0.1	-		
	0615	04/03/89	0001	AL	D		14.0	0.1	-		
	0615	06/01/90	0001	AL	D		11.9	0.1	-		
	0615	10/09/90	0001	AL	D		8.94	0.01	-		
	0616	09/15/86	0001	AL	D		2.6	0.1	-		
	0616	09/18/87	0001	AL	D		4.25	0.1	-		
	0616	04/04/89	0001	AL	D		4.8	0.1	-		
	0616	06/01/90	0001	AL	D		4.85	0.1	-		
	0616	10/09/90	0001	AL	D		4.80	0.01	-		
	0617	09/18/87	0001	AL	D		5.90	0.1	-		
	0617	04/04/89	0001	AL	D		5.3	0.1	-		
	0617	06/01/90	0001	AL	D		5.22	0.1	-		
	0617	10/09/90	0001	AL	D		4.07	0.01	-		
	0618	09/18/87	0001	AL	D		5.30	0.1	-		
	0618	10/11/88	0001	AL	D		4.5	0.1	-		
	0619	09/19/87	0001	AL	D		9.65	0.1	-		
	0619	04/05/89	0001	AL	D		10.8	0.1	-		
	0619	06/01/90	0001	AL	D		9.79	0.1	-		
	0619	10/09/90	0001	AL	D		4.91	0.01	-		
	0620	09/16/86	0001	AL	D		17.2	0.1	-		
	0620	08/30/87	0001	AL	D		14.0	0.1	-		
	0620	04/05/89	0001	AL	D		9.3	0.1	-		
0620	06/01/90	0001	AL	D	8.04	0.1	-				
0621	09/15/86	0001	AL	D	16.5	0.1	-				
0621	09/01/87	0001	AL	D	14.5	0.1	-				
0622	09/16/86	0001	AL	D	15.2	0.1	-				
0622	09/01/87	0001	AL	D	15.5	0.1	-				
0623	09/01/87	0001	AL	D	12.0	0.1	-				
0624	09/18/86	0001	AL	D	13.5	0.1	-				
0624	09/01/87	0001	AL	D	13.0	0.1	-				
0624	04/04/89	0001	AL	D	10.0	0.1	-				

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
STRONTIUM	0624	10/09/90	0001	AL	D	MG/L	8.55		0.01	-
	0625	09/03/87	0001	AL	D		12.0		0.1	-
	0626	09/01/87	0001	AL	D		13.0		0.1	-
	0626	04/05/89	0001	AL	D		7.2		0.1	-
	0626	06/04/90	0001	AL	D		6.39		0.1	-
	0626	10/11/90	0001	AL	D		6.85		0.01	-
	0627	09/14/86	0001	AL	D		17.4		0.1	-
	0627	09/16/87	0001	AL	D		9.25		0.1	-
	0628	09/16/87	0001	AL	D		9.75		0.1	-
	0628	04/05/89	0001	AL	D		5.6		0.1	-
	0628	06/04/90	0001	AL	D		7.02		0.1	-
	0628	10/11/90	0001	AL	D		8.65		0.01	-
	0629	08/30/87	0001	AL	D		6.30		0.1	-
	0629	04/18/89	0001	AL	D		4.3		0.1	-
	0630	09/15/86	0001	AL	D		5.9		0.1	-
	0630	08/30/87	0001	AL	D		6.35		0.1	-
	0630	06/04/90	0001	AL	D		6.85		0.1	-
	0630	10/10/90	0001	AL	D		6.40		0.01	-
	0631	09/20/86	0001	AL	D		5.7		0.1	-
	0631	08/30/87	0001	AL	D		5.80		0.1	-
	0632	09/20/86	0001	AL	D		5.5		0.1	-
	0632	09/01/87	0001	AL	D		5.60		0.1	-
	0632	11/12/87	0001	AL	D		4.80		0.1	-
	0633	04/19/89	0001	AL	D		7.7		0.1	-
	0638	03/19/87	0001	AL	D		4.80		0.1	-
	0638	05/14/87	0001	AL	D		2.10		0.1	-
	0638	09/25/87	0001	AL	D		0.950		0.1	-
	0638	10/09/88	0001	AL	D		1.2		0.1	-
	0638	04/20/89	0001	AL	D		1.2		0.1	-
	0639	03/19/87	0001	AL	D		8.00		0.1	-
	0639	05/14/87	0001	AL	D		3.60		0.1	-
	0639	09/25/87	0001	AL	D		5.25		0.1	-
	0639	10/09/88	0001	AL	D		6.3		0.1	-
	0639	04/20/89	0001	AL	D		4.1		0.1	-
	0640	03/19/87	0001	AL	D		10.5		0.1	-
	0640	09/24/87	0001	AL	D		8.70		0.1	-
	0640	04/19/89	0001	AL	D		5.2		0.1	-
	0641	03/18/87	0001	AL	D		13.8		0.1	-
	0641	05/14/87	0001	AL	D		12.2		0.1	-
	0641	09/24/87	0001	AL	D		10.8		0.1	-
0641	10/09/88	0001	AL	D	16.6		0.1	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

B-135

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
STRONTIUM	0641	04/18/89	0001	AL	D	MG/L	8.4		0.1	-
	0642	03/19/87	0001	AL	D		13.9		0.1	-
	0642	05/20/87	0001	AL	D		7.25		0.1	-
	0642	09/23/87	0001	AL	D		15.5		0.1	-
	0642	04/18/89	0001	AL	D		9.5		0.1	-
	0643	03/19/87	0001	AL	D		18.1		0.1	-
	0643	09/24/87	0001	AL	D		18.0		0.1	-
	0643	04/18/89	0001	AL	D		7.7		0.1	-
	0644	03/18/87	0001	AL	D		14.6		0.1	-
	0644	05/20/87	0001	AL	D		16.3		0.1	-
	0644	09/23/87	0001	AL	D		17.5		0.1	-
	0644	10/09/88	0001	AL	D		14.0		0.1	-
	0645	03/17/87	0001	AL	U		1.39		0.1	-
	0645	05/16/87	0001	AL	U		0.97		0.1	-
	0645	09/23/87	0001	AL	U		0.850		0.1	-
	0645	04/02/89	0001	AL	U		2.1		0.1	-
	0646	03/18/87	0001	AL	U		2.51		0.1	-
	0646	05/16/87	0001	AL	U		1.69		0.1	-
	0646	09/22/87	0001	AL	U		1.25		0.1	-
	0646	10/09/88	0001	AL	U		2.4		0.1	-
	0646	04/02/89	0001	AL	U		0.9		0.1	-
	0647	03/18/87	0001	AL	U		4.17		0.1	-
	0647	05/17/87	0001	AL	U		0.80		0.1	-
	0647	09/20/87	0001	AL	U		0.620		0.1	-
	0647	04/02/89	0001	AL	U		2.1		0.1	-
	0670	10/09/88	0001	AL	D		2.2		0.1	-
	0670	04/21/89	0001	AL	D		2.2		0.1	-
	0671	10/09/88	0001	AL	D		2.1		0.1	-
0671	04/21/89	0001	AL	D	2.7		0.1	-		
0672	10/09/88	0001	AL	D	1.5		0.1	-		
0672	04/22/89	0001	AL	D	1.4		0.1	-		
SULFATE	0601	09/19/86	0001	AL	U	MG/L	181.0		0.1	-
	0602	09/18/87	0001	AL	D		2880.		0.1	-
	0603	09/03/87	0001	AL	D		23300.		0.1	-
	0603	04/06/89	0001	AL	D		16000.		0.1	-
	0603	06/04/90	0001	AL	D		15000.		0.1	-
	0604	09/03/87	0001	AL	D		5096.		0.1	-
	0607	09/19/86	0001	AL	D		8660.0		0.1	-
	0607	09/01/87	0001	AL	D		12800.		0.1	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SULFATE	0608	09/18/86	0001	AL	D	MG/L	9650.0		0.1	-
	0608	09/22/87	0001	AL	D		15400.		0.1	-
	0608	04/03/89	0001	AL	D		13400.		0.1	-
	0608	06/01/90	0001	AL	D		12100.		0.1	-
	0608	10/07/90	0001	AL	D		14300.		0.1	-
	0609	09/17/86	0001	AL	D		8980.0		0.1	-
	0609	09/21/87	0001	AL	D		13400.		0.1	-
	0610	09/18/86	0001	AL	D		6800.0		0.1	-
	0610	09/21/87	0001	AL	D		7070.		0.1	-
	0610	04/03/89	0001	AL	D		7800.		0.1	-
	0610	06/01/90	0001	AL	D		9960.		0.1	-
	0610	10/07/90	0001	AL	D		8740.		0.1	-
	0611	09/19/87	0001	AL	D		6950.		0.1	-
	0612	09/17/86	0001	AL	D		1160.0		0.1	-
	0612	09/19/87	0001	AL	D		1150.		0.1	-
	0612	04/03/89	0001	AL	D		746.		0.1	-
	0613	09/18/86	0001	AL	D		8040.0		0.1	-
	0613	09/18/87	0001	AL	D		6930.		0.1	-
	0614	09/18/87	0001	AL	D		6690.		0.1	-
	0614	10/11/88	0001	AL	D		7230.		0.1	-
	0614	04/03/89	0001	AL	D		6630.		0.1	-
	0614	06/01/90	0001	AL	D		7500.		0.1	-
	0614	10/07/90	0001	AL	D		8620.		0.1	-
	0615	09/18/87	0001	AL	D		9930.		0.1	-
	0615	04/03/89	0001	AL	D		6230.		0.1	-
	0615	06/01/90	0001	AL	D		15000.		0.1	-
	0615	10/09/90	0001	AL	D		15600.		0.1	-
	0616	09/15/86	0001	AL	D		1400.0		0.1	-
	0616	09/18/87	0001	AL	D		2250.		0.1	-
	0616	04/04/89	0001	AL	D		2880.		0.1	-
	0616	06/01/90	0001	AL	D		2870.		0.1	-
	0616	10/09/90	0001	AL	D		3230.		0.1	-
	0617	09/18/87	0001	AL	D		4650.		0.1	-
	0617	04/04/89	0001	AL	D		4140.		0.1	-
0617	06/01/90	0001	AL	D	4150.		0.1	-		
0617	10/09/90	0001	AL	D	4820.		0.1	-		
0618	09/18/87	0001	AL	D	4270.		0.1	-		
0618	10/11/88	0001	AL	D	3960.		0.1	-		
0619	09/19/87	0001	AL	D	12100.		0.1	-		
0619	04/05/89	0001	AL	D	15000.		0.1	-		
0619	06/01/90	0001	AL	D	15800.		0.1	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SULFATE	0619	10/09/90	0001	AL	D	MG/L	12300.		0.1	-
	0620	09/16/86	0001	AL	D		14300.0		0.1	-
	0620	08/30/87	0001	AL	D		14500.		0.1	-
	0620	04/05/89	0001	AL	D		10500.		0.1	-
	0620	06/01/90	0001	AL	D		8010.		0.1	-
	0621	09/15/86	0001	AL	D		13500.0		0.1	-
	0621	09/01/87	0001	AL	D		14700.		0.1	-
	0622	09/16/86	0001	AL	D		10600.0		0.1	-
	0622	09/01/87	0001	AL	D		14900.		0.1	-
	0623	09/01/87	0001	AL	D		12400.		0.1	-
	0624	09/18/86	0001	AL	D		10600.0		0.1	-
	0624	09/01/87	0001	AL	D		12700.		0.1	-
	0624	04/04/89	0001	AL	D		13400.		0.1	-
	0624	10/09/90	0001	AL	D		8870.		0.1	-
	0625	09/03/87	0001	AL	D		12300.		0.1	-
	0626	09/01/87	0001	AL	D		8690.		0.1	-
	0626	04/05/89	0001	AL	D		5520.		0.1	-
	0626	06/04/90	0001	AL	D		4290.		0.1	-
	0626	10/11/90	0001	AL	D		3980.		0.1	-
	0627	09/14/86	0001	AL	D		8310.0		0.1	-
	0627	09/16/87	0001	AL	D		5480.		0.1	-
	0628	09/16/87	0001	AL	D		6260.		0.1	-
	0628	04/05/89	0001	AL	D		4460.		0.1	-
	0628	06/04/90	0001	AL	D		4050.		0.1	-
	0628	10/11/90	0001	AL	D		4450.		0.1	-
	0629	08/30/87	0001	AL	D		3300.		0.1	-
	0629	04/18/89	0001	AL	D		3240.		0.1	-
	0630	09/15/86	0001	AL	D		3710.0		0.1	-
	0630	08/30/87	0001	AL	D		3320.		0.1	-
	0630	06/04/90	0001	AL	D		3220.		0.1	-
	0630	10/10/90	0001	AL	D		3030.		0.1	-
	0631	09/20/86	0001	AL	D		3460.0		0.1	-
	0631	08/30/87	0001	AL	D		3360.		0.1	-
	0632	09/20/86	0001	AL	D		3390.0		0.1	-
	0632	09/01/87	0001	AL	D		3290.		0.1	-
0632	11/12/87	0001	AL	D		3040.		0.1	-	
0633	04/19/89	0001	AL	D		2420.		0.1	-	
0638	03/19/87	0001	AL	D		2160.		0.1	-	
0638	05/14/87	0001	AL	D		1390.		0.1	-	
0638	09/25/87	0001	AL	D		235.		0.1	-	
0638	10/09/88	0001	AL	D		402.		0.1	-	

B-137

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SULFATE	0638	04/20/89	0001	AL	D	MG/L	714.		0.1	-
	0639	03/19/87	0001	AL	D		3900.		0.1	-
	0639	05/14/87	0001	AL	D		1880.		0.1	-
	0639	09/25/87	0001	AL	D		3170.		0.1	-
	0639	10/09/88	0001	AL	D		3500.		0.1	-
	0639	04/20/89	0001	AL	D		3440.		0.1	-
	0640	03/19/87	0001	AL	D		7770.		0.1	-
	0640	09/24/87	0001	AL	D		8190.		0.1	-
	0640	04/19/89	0001	AL	D		6900.		0.1	-
	0641	03/18/87	0001	AL	D		18000.		0.1	-
	0641	05/14/87	0001	AL	D		14100.		0.1	-
	0641	09/24/87	0001	AL	D		14400.		0.1	-
	0641	10/09/88	0001	AL	D		21000.		0.1	-
	0641	04/18/89	0001	AL	D		12400.		0.1	-
	0642	03/19/87	0001	AL	D		9470.		0.1	-
	0642	05/20/87	0001	AL	D		5270.		0.1	-
	0642	09/23/87	0001	AL	D		14800.		0.1	-
	0642	04/18/89	0001	AL	D		13200.		0.1	-
	0643	03/19/87	0001	AL	D		36900.		0.1	-
	0643	09/24/87	0001	AL	D		30200.		0.1	-
	0643	04/18/89	0001	AL	D		10600.		0.1	-
	0644	03/18/87	0001	AL	D		16000.		0.1	-
	0644	05/20/87	0001	AL	D		21100.		0.1	-
	0644	09/23/87	0001	AL	D		21300.		0.1	-
	0644	10/09/88	0001	AL	D		13300.		0.1	-
	0645	03/17/87	0001	AL	U		373.		0.1	-
	0645	05/16/87	0001	AL	U		269.		0.1	-
	0645	09/23/87	0001	AL	U		165.		0.1	-
	0645	04/02/89	0001	AL	U		1480.		0.1	-
	0646	03/18/87	0001	AL	U		914.		0.1	-
	0646	05/16/87	0001	AL	U		818.		0.1	-
	0646	09/22/87	0001	AL	U		558.		0.1	-
	0646	10/09/88	0001	AL	U		860.		0.1	-
	0646	04/02/89	0001	AL	U		388.		0.1	-
	0647	03/18/87	0001	AL	U		1740.		0.1	-
	0647	05/17/87	0001	AL	U		286.		0.1	-
0647	09/20/87	0001	AL	U	114.		0.1	-		
0647	04/02/89	0001	AL	U	1610.		0.1	-		
0670	01/20/88	0001	AL	D	1310.		0.1	-		
0670	03/31/88	0001	AL	D	1140.		0.1	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SULFATE	0670	05/17/88	0001	AL	D	MG/L	916.		0.1	-
	0670	10/09/88	0001	AL	D		625.		0.1	-
	0670	04/21/89	0001	AL	D		880.		0.1	-
	0671	01/20/88	0001	AL	D		2750.		0.1	-
	0671	03/31/88	0001	AL	D		2530.		0.1	-
	0671	05/17/88	0001	AL	D		1300.		0.1	-
	0671	10/09/88	0001	AL	D		613.		0.1	-
	0671	04/21/89	0001	AL	D		1260.		0.1	-
	0672	01/20/88	0001	AL	D		1970.		0.1	-
	0672	03/31/88	0001	AL	D		607.		0.1	-
	0672	05/17/88	0001	AL	D		649.		0.1	-
	0672	10/09/88	0001	AL	D		413.		0.1	-
	0672	04/22/89	0001	AL	D		482.		0.1	-
	SULFIDE	0601	09/19/86	0001	AL		U	MG/L	< 0.1	
0602		09/18/87	0001	AL	D	< 0.1			0.1	-
0603		09/03/87	0001	AL	D	< 0.1			0.1	-
0603		04/06/89	0001	AL	D	< 0.1			0.1	-
0604		09/03/87	0001	AL	D	< 0.1			0.1	-
0607		09/19/86	0001	AL	D	< 0.1			0.1	-
0607		09/01/87	0001	AL	D	< 0.1			0.1	-
0608		09/18/86	0001	AL	D	< 0.1			0.1	-
0608		09/22/87	0001	AL	D	< 0.1			0.1	-
0608		04/03/89	0001	AL	D	< 0.1			0.1	-
0609		09/17/86	0001	AL	D	< 0.1			0.1	-
0609		09/21/87	0001	AL	D	< 0.1			0.1	-
0610		09/18/86	0001	AL	D	< 0.1			0.1	-
0610		09/21/87	0001	AL	D	< 0.1			0.1	-
0610		04/03/89	0001	AL	D	< 0.1			0.1	-
0611		09/19/87	0001	AL	D	< 0.1			0.1	-
0612		09/17/86	0001	AL	D	< 0.1			0.1	-
0612		09/19/87	0001	AL	D	< 0.1			0.1	-
0612		04/03/89	0001	AL	D	< 0.1			0.1	-
0613		09/18/86	0001	AL	D	< 0.1			0.1	-
0613	09/18/87	0001	AL	D	< 0.1		0.1	-		
0614	09/18/87	0001	AL	D	< 0.1		0.1	-		
0614	04/03/89	0001	AL	D	< 0.1		0.1	-		
0615	09/18/87	0001	AL	D	< 0.1		0.1	-		
0615	04/03/89	0001	AL	D	< 0.1		0.1	-		
0616	09/15/86	0001	AL	D	< 0.1		0.1	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SULFIDE	0616	09/18/87	0001	AL	D	MG/L	<	0.1		0.1	-
	0616	04/04/89	0001	AL	D		<	0.1		0.1	-
	0617	09/18/87	0001	AL	D		<	0.1		0.1	-
	0617	04/04/89	0001	AL	D		<	0.1		0.1	-
	0618	09/18/87	0001	AL	D		<	0.1		0.1	-
	0619	09/19/87	0001	AL	D		<	0.1		0.1	-
	0619	04/05/89	0001	AL	D		<	0.1		0.1	-
	0620	09/16/86	0001	AL	D		<	0.1		0.1	-
	0620	08/30/87	0001	AL	D		<	0.1		0.1	-
	0620	04/05/89	0001	AL	D		<	0.1		0.1	-
	0621	09/15/86	0001	AL	D		<	0.1		0.1	-
	0621	09/01/87	0001	AL	D		<	0.1		0.1	-
	0622	09/16/86	0001	AL	D		<	0.1		0.1	-
	0622	09/01/87	0001	AL	D		<	0.1		0.1	-
	0623	09/01/87	0001	AL	D		<	0.1		0.1	-
	0624	09/18/86	0001	AL	D		<	0.1		0.1	-
	0624	09/01/87	0001	AL	D		<	0.1		0.1	-
	0624	04/04/89	0001	AL	D		<	0.1		0.1	-
	0625	09/03/87	0001	AL	D		<	0.1		0.1	-
	0626	09/01/87	0001	AL	D		<	0.1		0.1	-
	0626	04/05/89	0001	AL	D		<	0.1		0.1	-
	0627	09/14/86	0001	AL	D		<	0.1		0.1	-
	0627	09/16/87	0001	AL	D		<	0.1		0.1	-
	0628	09/16/87	0001	AL	D		<	0.1		0.1	-
	0628	04/05/89	0001	AL	D		<	0.1		0.1	-
	0629	08/30/87	0001	AL	D		<	0.1		0.1	-
	0629	04/18/89	0001	AL	D		<	0.1		0.1	-
	0630	09/15/86	0001	AL	D		<	0.1		0.1	-
	0630	08/30/87	0001	AL	D		<	0.1		0.1	-
	0631	09/20/86	0001	AL	D		<	0.1		0.1	-
	0631	08/30/87	0001	AL	D		<	0.1		0.1	-
	0632	09/20/86	0001	AL	D		<	0.1		0.1	-
	0632	09/01/87	0001	AL	D		<	0.1		0.1	-
	0632	11/12/87	0001	AL	D		<	0.1		0.1	-
	0633	04/19/89	0001	AL	D		<	0.1		0.1	-
	0638	09/25/87	0001	AL	D		<	0.1		0.1	-
	0638	04/20/89	0001	AL	D		<	0.1		0.1	-
	0639	09/25/87	0001	AL	D		<	0.1		0.1	-
	0639	04/20/89	0001	AL	D		<	0.1		0.1	-
	0640	09/24/87	0001	AL	D		<	0.1		0.1	-
0640	04/19/89	0001	AL	D	<	0.1		0.1	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER		DETECTION LIMIT	PARAMETER UNCERTAINTY
							PVI	VALUE		
SULFIDE	0641	09/24/87	0001	AL	D	MG/L		0.1	0.1	-
	0641	04/18/89	0001	AL	D		<	0.1	0.1	-
	0642	09/23/87	0001	AL	D			0.1	0.1	-
	0642	04/18/89	0001	AL	D		<	0.1	0.1	-
	0643	09/24/87	0001	AL	D			0.1	0.1	-
	0643	04/18/89	0001	AL	D		<	0.1	0.1	-
	0644	09/23/87	0001	AL	D			0.1	0.1	-
	0645	09/23/87	0001	AL	U		<	0.1	0.1	-
	0645	04/02/89	0001	AL	U		<	0.1	0.1	-
	0646	09/22/87	0001	AL	U		<	0.1	0.1	-
	0646	04/02/89	0001	AL	U		<	0.1	0.1	-
	0647	09/20/87	0001	AL	U		<	0.1	0.1	-
	0647	04/02/89	0001	AL	U		<	0.1	0.1	-
	0670	03/31/88	0001	AL	D		<	0.1	0.1	-
	0670	04/21/89	0001	AL	D			1.1	0.1	-
	0671	03/31/88	0001	AL	D			0.1	0.1	-
	0671	04/21/89	0001	AL	D		<	0.1	0.1	-
	0672	03/31/88	0001	AL	D		<	0.1	0.1	-
0672	04/22/89	0001	AL	D		<	0.1	0.1	-	
TEMPERATURE	0425	01/08/91	N001	NR	N	C - DEGREE		12.8	-	-
	0426	01/08/91	N001	NR	N			11.9	-	-
	0601	09/19/86	0001	AL	U			16.0	-	-
	0602	09/18/87	0001	AL	D			24.0	-	-
	0603	09/03/87	0001	AL	D			23.0	-	-
	0603	04/06/89	0001	AL	D			11.5	-	-
	0603	06/04/90	0001	AL	D			16.0	-	-
	0604	09/03/87	0001	AL	D			18.5	-	-
	0607	09/19/86	0001	AL	D			18.5	-	-
	0607	09/01/87	0001	AL	D			21.5	-	-
	0608	09/18/86	0001	AL	D			21.0	-	-
	0608	09/22/87	0001	AL	D			22.0	-	-
	0608	04/03/89	0001	AL	D			11.	-	-
	0608	06/01/90	0001	AL	D			16.	-	-
	0608	10/07/90	0001	AL	D			22.	-	-
	0609	09/17/86	0001	AL	D			22.5	-	-
	0609	09/21/87	0001	AL	D			22.9	-	-
	0610	09/18/86	0001	AL	D			23.5	-	-
0610	09/21/87	0001	AL	D			23.5	-	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM
 NR - NO RECOVERY OF DATA FOR CLASSIFYING

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT
 N - UNKNOWN

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER		DETECTION LIMIT	PARAMETER UNCERTAINTY
							PVI	VALUE		
TEMPERATURE	0610	04/03/89	0001	AL	D	C - DEGREE		12.	-	-
	0610	06/01/90	0001	AL	D			18.	-	-
	0610	10/07/90	0001	AL	D			23.	-	-
	0611	09/19/87	0001	AL	D			23.0	-	-
	0612	09/17/86	0001	AL	D			23.0	-	-
	0612	09/19/87	0001	AL	D			22.5	-	-
	0612	04/03/89	0001	AL	D			13.	-	-
	0613	09/18/86	0001	AL	D			22.0	-	-
	0613	09/18/87	0001	AL	D			22.0	-	-
	0614	09/18/87	0001	AL	D			21.0	-	-
	0614	10/11/88	0001	AL	D			20.0	-	-
	0614	04/03/89	0001	AL	D			11.	-	-
	0614	06/01/90	0001	AL	D			15.0	-	-
	0614	10/07/90	0001	AL	D			21.2	-	-
	0615	09/18/87	0001	AL	D			23.5	-	-
	0615	04/03/89	0001	AL	D			12.5	-	-
	0615	06/01/90	0001	AL	D			18.0	-	-
	0615	10/09/90	0001	AL	D			22.1	-	-
	0616	09/15/86	0001	AL	D			22.0	-	-
	0616	09/18/87	0001	AL	D			20.5	-	-
	0616	04/04/89	0001	AL	D			12.	-	-
	0616	06/01/90	0001	AL	D			16.0	-	-
	0616	10/09/90	0001	AL	D			20.5	-	-
	0617	09/18/87	0001	AL	D			22.0	-	-
	0617	04/04/89	0001	AL	D			13.	-	-
	0617	06/01/90	0001	AL	D			16.0	-	-
	0617	10/09/90	0001	AL	D			20.5	-	-
	0618	09/18/87	0001	AL	D			20.8	-	-
	0618	10/11/88	0001	AL	D			20.0	-	-
	0619	09/19/87	0001	AL	D			20.1	-	-
	0619	04/05/89	0001	AL	D			13.5	-	-
	0619	06/01/90	0001	AL	D			15.	-	-
	0619	10/09/90	0001	AL	D			20.0	-	-
	0620	09/16/86	0001	AL	D			18.0	-	-
	0620	08/30/87	0001	AL	D			16.0	-	-
	0620	04/05/89	0001	AL	D			10.	-	-
	0620	06/01/90	0001	AL	D			12.5	-	-
	0621	09/15/86	0001	AL	D			19.0	-	-
	0621	09/01/87	0001	AL	D			16.4	-	-
	0622	09/16/86	0001	AL	D			21.0	-	-
0622	09/01/87	0001	AL	D		18.5	-	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TEMPERATURE	0623	09/01/87	0001	AL	D	C - DEGREE		20.5		-	-
	0624	09/18/86	0001	AL	D			20.0		-	-
	0624	09/01/87	0001	AL	D			18.8		-	-
	0624	04/04/89	0001	AL	D			13.		-	-
	0624	10/09/90	0001	AL	D			18.5		-	-
	0625	09/03/87	0001	AL	D			22.0		-	-
	0626	09/01/87	0001	AL	D			17.5		-	-
	0626	04/05/89	0001	AL	D			11.		-	-
	0626	06/04/90	0001	AL	D			13.5		-	-
	0626	10/11/90	0001	AL	D			18.0		-	-
	0627	09/14/86	0001	AL	D			19.0		-	-
	0627	09/16/87	0001	AL	D			16.2		-	-
	0628	09/16/87	0001	AL	D			17.5		-	-
	0628	04/05/89	0001	AL	D			9.0		-	-
	0628	06/04/90	0001	AL	D			13.0		-	-
	0628	10/11/90	0001	AL	D			17.0		-	-
	0629	08/30/87	0001	AL	D			21.2		-	-
	0629	04/18/89	0001	AL	D			14.5		-	-
	0630	09/15/86	0001	AL	D			24.0		-	-
	0630	08/30/87	0001	AL	D			21.5		-	-
	0630	06/04/90	0001	AL	D			16.0		-	-
	0630	10/10/90	0001	AL	D			21.1		-	-
	0631	09/20/86	0001	AL	D			20.5		-	-
	0631	08/30/87	0001	AL	D			18.1		-	-
	0632	09/20/86	0001	AL	D			21.5		-	-
	0632	09/01/87	0001	AL	D			20.0		-	-
	0632	11/12/87	0001	AL	D			18.		-	-
	0633	04/19/89	0001	AL	D			24.		-	-
	0638	03/19/87	0001	AL	D			13.		-	-
	0638	05/14/87	0001	AL	D			18.5		-	-
	0638	09/25/87	0001	AL	D			18.0		-	-
	0638	10/09/88	0001	AL	D			15.0		-	-
	0638	04/20/89	0001	AL	D			18.		-	-
	0639	03/19/87	0001	AL	D			11.0		-	-
	0639	05/14/87	0001	AL	D			15.0		-	-
	0639	09/25/87	0001	AL	D			20.0		-	-
	0639	10/09/88	0001	AL	D			14.		-	-
	0639	04/20/89	0001	AL	D			18.5		-	-
	0640	03/19/87	0001	AL	D			6.5		-	-
	0640	09/24/87	0001	AL	D			22.2		-	-
0640	04/19/89	0001	AL	D		14.		-	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TEMPERATURE	0641	03/18/87	0001	AL	D	C - DEGREE	7.5		-	-
	0641	05/14/87	0001	AL	D		16.0		-	-
	0641	09/24/87	0001	AL	D		20.0		-	-
	0641	10/09/88	0001	AL	D		29.0		-	-
	0641	04/18/89	0001	AL	D		16.		-	-
	0642	03/19/87	0001	AL	D		7.5		-	-
	0642	05/20/87	0001	AL	D		15.		-	-
	0642	09/23/87	0001	AL	D		22.0		-	-
	0642	04/18/89	0001	AL	D		16.5		-	-
	0643	03/19/87	0001	AL	D		8.5		-	-
	0643	09/24/87	0001	AL	D		30.0		-	-
	0643	04/18/89	0001	AL	D		16.5		-	-
	0644	03/18/87	0001	AL	D		8.		-	-
	0644	05/20/87	0001	AL	D		15.0		-	-
	0644	09/23/87	0001	AL	D		23.0		-	-
	0644	10/09/88	0001	AL	D		20.		-	-
	0644	04/18/89	0001	AL	D		16.5		-	-
	0645	03/17/87	0001	AL	U		7.0		-	-
	0645	05/16/87	0001	AL	U		13.0		-	-
	0645	09/23/87	0001	AL	U		19.0		-	-
	0645	04/02/89	0001	AL	U		12.5		-	-
	0646	03/18/87	0001	AL	U		8.0		-	-
	0646	05/16/87	0001	AL	U		13.5		-	-
	0646	09/22/87	0001	AL	U		21.0		-	-
	0646	10/09/88	0001	AL	U		17.5		-	-
	0646	04/02/89	0001	AL	U		15.		-	-
	0647	03/18/87	0001	AL	U		6.		-	-
	0647	05/17/87	0001	AL	U		13.5		-	-
	0647	09/20/87	0001	AL	U		20.0		-	-
	0647	04/02/89	0001	AL	U		12.5		-	-
	0670	01/20/88	0001	AL	D		8.5		-	-
	0670	05/17/88	0001	AL	D		12.5		-	-
	0670	10/09/88	0001	AL	D		20.		-	-
	0670	04/21/89	0001	AL	D		18.		-	-
0671	01/20/88	0001	AL	D	3.0		-	-		
0671	05/17/88	0001	AL	D	16.		-	-		
0671	10/09/88	0001	AL	D	20.		-	-		
0671	04/21/89	0001	AL	D	16.		-	-		
0672	01/20/88	0001	AL	D	9.0		-	-		
0672	05/17/88	0001	AL	D	15.5		-	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TEMPERATURE	0672	10/09/88	0001	AL	D	C - DEGREE	17.0		-	-
	0672	04/22/89	0001	AL	D		15.		-	-
THALLIUM	0603	04/06/89	0001	AL	D	MG/L	0.02		0.01	-
	0603	06/04/90	0001	AL	D		.04		0.01	-
	0608	04/03/89	0001	AL	D		0.02		0.01	-
	0608	06/01/90	0001	AL	D		< .01		0.01	-
	0608	10/07/90	0001	AL	D		< 0.05	Ic	0.05	-
	0610	04/03/89	0001	AL	D		0.02		0.01	-
	0610	06/01/90	0001	AL	D		< .01		0.01	-
	0610	10/07/90	0001	AL	D		< 0.05	Ic	0.05	-
	0612	04/03/89	0001	AL	D		< 0.01		0.01	-
	0614	04/03/89	0001	AL	D		0.01		0.01	-
	0614	06/01/90	0001	AL	D		< .01		0.01	-
	0614	10/07/90	0001	AL	D		< 0.05	Ic	0.05	-
	0615	04/03/89	0001	AL	D		0.02		0.01	-
	0615	06/01/90	0001	AL	D		< .01		0.01	-
	0615	10/09/90	0001	AL	D		< 0.05	Ic	0.05	-
	0616	04/04/89	0001	AL	D		< 0.01		0.01	-
	0616	06/01/90	0001	AL	D		< .01		0.01	-
	0616	10/09/90	0001	AL	D		< 0.01		0.01	-
	0617	04/04/89	0001	AL	D		< 0.01		0.01	-
	0617	06/01/90	0001	AL	D		< .01		0.01	-
	0617	10/09/90	0001	AL	D		< 0.01		0.01	-
	0619	04/05/89	0001	AL	D		0.02		0.01	-
	0619	06/01/90	0001	AL	D		< .01		0.01	-
	0619	10/09/90	0001	AL	D		< 0.05	Ic	0.05	-
	0620	04/05/89	0001	AL	D		0.02		0.01	-
	0620	06/01/90	0001	AL	D		< .01		0.01	-
	0624	04/04/89	0001	AL	D		0.01		0.01	-
	0624	10/09/90	0001	AL	D		< 0.05	Ic	0.05	-
	0626	04/05/89	0001	AL	D		0.01		0.01	-
	0626	06/04/90	0001	AL	D		< .01		0.01	-
0626	10/11/90	0001	AL	D	< 0.05	Ic	0.05	-		
0628	04/05/89	0001	AL	D	0.02		0.01	-		
0628	06/04/90	0001	AL	D	< .01		0.01	-		
0628	10/11/90	0001	AL	D	< 0.05	c	0.05	-		
0630	06/04/90	0001	AL	D	< .01		0.01	-		
0630	10/10/90	0001	AL	D	< 0.05	Ic	0.05	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
THALLIUM	0638	04/20/89	0001	AL	D	MG/L	<	0.01		0.01	-
	0639	04/20/89	0001	AL	D		<	0.01		0.01	-
	0645	04/02/89	0001	AL	U		<	0.01		0.01	-
	0646	04/02/89	0001	AL	U		<	0.01		0.01	-
	0647	04/02/89	0001	AL	U		<	0.01		0.01	-
	0670	04/21/89	0001	AL	D		<	0.01		0.01	-
	0671	04/21/89	0001	AL	D		<	0.01		0.01	-
	0672	04/22/89	0001	AL	D		<	0.01		0.01	-
THORIUM-230	0601	09/19/86	0001	AL	U	PCI/L		0.5		1.0	0.7
	0602	09/18/87	0001	AL	D			0.4		1.0	0.8
	0603	09/03/87	0001	AL	D			0.2		1.0	1.1
	0603	04/06/89	0001	AL	D		<	0.7	b	1.0	0.7
	0604	09/03/87	0001	AL	D		<	0.5	b	1.0	0.5
	0607	09/19/86	0001	AL	D			1.5		1.0	2.9
	0607	09/01/87	0001	AL	D			0.2		1.0	1.0
	0608	09/18/86	0001	AL	D			1.0		1.0	1.1
	0608	09/22/87	0001	AL	D			1.9		1.0	1.6
	0608	04/03/89	0001	AL	D			0.1	c	0.70000	0.6
	0609	09/17/86	0001	AL	D			2.0		1.0	1.4
	0609	09/21/87	0001	AL	D			0.6		1.0	1.1
	0610	09/18/86	0001	AL	D			0.9		1.0	0.8
	0610	09/21/87	0001	AL	D			0.1	c	0.80000	0.7
	0610	04/03/89	0001	AL	D		<	0.5	b	1.0	0.5
	0611	09/19/87	0001	AL	D			1.0		1.0	1.0
	0612	09/17/86	0001	AL	D		<	0.4	d	0.1	0.4
	0612	09/19/87	0001	AL	D		<	0.3	d	0.1	0.3
	0612	04/03/89	0001	AL	D		<	0.2	d	0.1	0.2
	0613	09/18/86	0001	AL	D			1.5		1.0	0.9
	0613	09/18/87	0001	AL	D			1.2		1.0	1.1
	0614	09/18/87	0001	AL	D			0.4		1.0	0.9
	0614	10/11/88	0001	AL	D			0.5		1.0	0.7
	0614	04/03/89	0001	AL	D			0.3	c	0.80000	0.5
0615	09/18/87	0001	AL	D		<	0.6	b	1.0	0.6	
0615	04/03/89	0001	AL	D		<	0.6	b	1.0	0.6	
0616	09/15/86	0001	AL	D		<	0.4	d	0.1	0.4	
0616	09/18/87	0001	AL	D			0.3		1.0	0.8	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS:
 b - CHANGED PARAMETER VALUE
 c - CHANGED DETECTION LIMIT
 d - CHANGED DETECTION LIMIT AND PARAMETER VALUE

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER			DETECTION LIMIT	PARAMETER UNCERTAINTY
							PVI	VALUE	FLAGS		
THORIUM-230	0616	04/04/89	0001	AL	D	PCI/L	<	0.3	d	0.1	0.3
	0617	09/18/87	0001	AL	D		<	0.9	b	1.0	0.9
	0617	04/04/89	0001	AL	D		<	0.3	d	0.1	0.3
	0618	09/18/87	0001	AL	D			0.3		1.0	0.8
	0618	10/11/88	0001	AL	D			0.3	c	0.80000	0.5
	0619	09/19/87	0001	AL	D			2.1		1.0	1.6
	0619	04/05/89	0001	AL	D			0.3		1.0	0.8
	0620	09/16/86	0001	AL	D			1.0		1.0	2.8
	0620	08/30/87	0001	AL	D			0.2		1.0	1.1
	0620	04/05/89	0001	AL	D		<	0.7	b	1.0	0.7
	0621	09/15/86	0001	AL	D		<	2.2	b	1.0	2.2
	0621	09/01/87	0001	AL	D			4.0		1.0	2.1
	0622	09/16/86	0001	AL	D			2.0		1.0	3.1
	0622	09/01/87	0001	AL	D			4.2		1.0	2.2
	0623	09/01/87	0001	AL	D			0.2		1.0	1.1
	0624	09/18/86	0001	AL	D			1.0		1.0	2.8
	0624	09/01/87	0001	AL	D			1.1		1.0	1.4
	0624	04/04/89	0001	AL	D		<	0.7	b	1.0	0.7
	0625	09/03/87	0001	AL	D			2.0		1.0	1.7
	0626	09/01/87	0001	AL	D		<	0.6	b	1.0	0.6
	0626	04/05/89	0001	AL	D			0.1	c	0.60000	0.5
	0627	09/14/86	0001	AL	D			0.7		1.0	1.0
	0627	09/16/87	0001	AL	D			0.3		1.0	0.8
	0628	09/16/87	0001	AL	D			0.1	c	0.90000	0.8
	0628	04/05/89	0001	AL	D		<	0.3	d	0.1	0.3
	0629	08/30/87	0001	AL	D			0.1	c	0.80000	0.7
	0629	04/18/89	0001	AL	D		<	0.3	d	0.1	0.3
	0630	09/15/86	0001	AL	D			0.2	c	0.80000	0.6
	0630	08/30/87	0001	AL	D		<	0.5	b	1.0	0.5
	0631	09/20/86	0001	AL	D		<	0.4	d	0.1	0.4
	0631	08/30/87	0001	AL	D		<	0.5	b	1.0	0.5
	0632	09/20/86	0001	AL	D		<	0.4	d	0.1	0.4
	0632	09/01/87	0001	AL	D			0.3		1.0	0.8
0632	11/12/87	0001	AL	D		<	0.4	d	0.1	0.4	
0633	04/19/89	0001	AL	D		<	0.3	d	0.1	0.3	
0638	03/19/87	0001	AL	D			0.8		1.0	0.9	
0638	05/14/87	0001	AL	D			17.		1.0	3.	
0638	09/25/87	0001	AL	D		<	0.4	d	0.1	0.4	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS:
 b - CHANGED PARAMETER VALUE
 c - CHANGED DETECTION LIMIT
 d - CHANGED DETECTION LIMIT AND PARAMETER VALUE

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

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	0638	10/09/88	0001	AL	D	PCI/L	<	0.4	d	0.1	0.4	
	0638	04/20/89	0001	AL	D				0.2	c	0.60000	0.4
	0639	03/19/87	0001	AL	D		<		0.6	b	1.0	0.6
	0639	05/14/87	0001	AL	D				44.		1.0	4.
	0639	09/25/87	0001	AL	D				0.2		1.0	0.8
	0639	10/09/88	0001	AL	D				0.1	c	0.50000	0.4
	0639	04/20/89	0001	AL	D		<		0.3	d	0.1	0.3
	0640	03/19/87	0001	AL	D		<		0.5	b	1.0	0.5
	0640	09/24/87	0001	AL	D				0.4		1.0	1.2
	0640	04/19/89	0001	AL	D		<		0.4	d	0.1	0.4
	0641	03/18/87	0001	AL	D		<		1.3	b	1.0	1.3
	0641	05/14/87	0001	AL	D				60.		1.0	10.
	0641	09/24/87	0001	AL	D				0.2		1.0	1.1
	0641	10/09/88	0001	AL	D				0.4		1.0	0.8
	0641	04/18/89	0001	AL	D		<		0.5	b	1.0	0.5
	0642	03/19/87	0001	AL	D				3.3		1.0	1.5
	0642	05/20/87	0001	AL	D				21.		1.0	8.
	0642	09/23/87	0001	AL	D		<		1.0	b	1.0	1.0
	0642	04/18/89	0001	AL	D		<		0.6	b	1.0	0.6
	0643	03/19/87	0001	AL	D				1.0		1.0	1.0
	0643	09/24/87	0001	AL	D				4.4		1.0	2.2
	0643	04/18/89	0001	AL	D		<		0.6	b	1.0	0.6
	0644	03/18/87	0001	AL	D				0.3		1.0	0.8
	0644	05/20/87	0001	AL	D				50.		1.0	10.
	0644	09/23/87	0001	AL	D				4.1		1.0	2.1
	0644	10/09/88	0001	AL	D				0.4		1.0	0.6
	0645	03/17/87	0001	AL	U		<		0.6	b	1.0	0.6
	0645	05/16/87	0001	AL	U				21.		1.0	3.
	0645	09/23/87	0001	AL	U				0.3	c	0.80000	0.5
	0645	04/02/89	0001	AL	U				0.1	c	0.50000	0.4
	0646	03/18/87	0001	AL	U				0.4		1.0	0.8
	0646	05/16/87	0001	AL	U				1.2		1.0	0.8
	0646	09/22/87	0001	AL	U				0.8		1.0	0.7
0646	10/09/88	0001	AL	U	<		0.3	d	0.1	0.3		
0646	04/02/89	0001	AL	U			0.2	c	0.60000	0.4		
0647	03/18/87	0001	AL	U			1.2		1.0	0.8		
0647	05/17/87	0001	AL	U			0.4		1.0	0.6		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS:
 b - CHANGED PARAMETER VALUE
 c - CHANGED DETECTION LIMIT
 d - CHANGED DETECTION LIMIT AND PARAMETER VALUE

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

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	0647	09/20/87	0001	AL	U	PCI/L	<	0.4	d	0.1	0.4	
	0647	04/02/89	0001	AL	U			0.4	c	0.90000	0.5	
	0670	03/31/88	0001	AL	D		<	0.4	d	0.1	0.4	
	0670	10/09/88	0001	AL	D		<	0.3	d	0.1	0.3	
	0670	04/21/89	0001	AL	D		<	0.3	d	0.1	0.3	
	0671	03/31/88	0001	AL	D			0.4		1.0	0.6	
	0671	10/09/88	0001	AL	D			0.4	c	0.90000	0.5	
	0671	04/21/89	0001	AL	D		<	0.3	d	0.1	0.3	
	0672	03/31/88	0001	AL	D			0.5		1.0	0.6	
	0672	10/09/88	0001	AL	D		<	0.3	d	0.1	0.3	
	0672	04/22/89	0001	AL	D			0.4	c	0.90000	0.5	
	TIN	0601	09/19/86	0001	AL	U	MG/L	<	0.005		0.005	-
		0602	09/18/87	0001	AL	D			0.020		0.005	-
0603		09/03/87	0001	AL	D			0.075		0.005	-	
0603		04/06/89	0001	AL	D			0.069		0.005	-	
0603		06/04/90	0001	AL	D		<	.005		0.005	-	
0604		09/03/87	0001	AL	D			0.037		0.005	-	
0607		09/19/86	0001	AL	D		<	0.005		0.005	-	
0607		09/01/87	0001	AL	D			0.040		0.005	-	
0608		09/18/86	0001	AL	D			0.020		0.005	-	
0608		09/22/87	0001	AL	D			0.035		0.005	-	
0608		04/03/89	0001	AL	D			0.046		0.005	-	
0608		06/01/90	0001	AL	D		<	.005		0.005	-	
0608		10/07/90	0001	AL	D		<	0.1	Ic	0.1	-	
0609		09/17/86	0001	AL	D			0.025		0.005	-	
0609		09/21/87	0001	AL	D			0.030		0.005	-	
0610		09/18/86	0001	AL	D			0.010		0.005	-	
0610		09/21/87	0001	AL	D			0.018		0.005	-	
0610		04/03/89	0001	AL	D			0.036		0.005	-	
0610		06/01/90	0001	AL	D		<	.005		0.005	-	
0610		10/07/90	0001	AL	D		<	0.05	Ic	0.05	-	
0611		09/19/87	0001	AL	D			0.045		0.005	-	
0612		09/17/86	0001	AL	D		<	0.005		0.005	-	
0612		09/19/87	0001	AL	D			0.018		0.005	-	
0612		04/03/89	0001	AL	D			0.011		0.005	-	
0613		09/18/86	0001	AL	D		<	0.005		0.005	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 U - UPGRADIENT
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS:
 I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT
 d - CHANGED DETECTION LIMIT AND PARAMETER VALUE

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TIN	0613	09/18/87	0001	AL	D	MG/L		0.049		0.005	-
	0614	09/18/87	0001	AL	D			0.049		0.005	-
	0614	04/03/89	0001	AL	D			0.024		0.005	-
	0614	06/01/90	0001	AL	D		<	.005		0.005	-
	0614	10/07/90	0001	AL	D		<	0.05	Ic	0.05	-
	0615	09/18/87	0001	AL	D			0.089		0.005	-
	0615	04/03/89	0001	AL	D			0.062		0.005	-
	0615	06/01/90	0001	AL	D		<	.005		0.005	-
	0615	10/09/90	0001	AL	D		<	0.1	Ic	0.1	-
	0616	09/15/86	0001	AL	D		<	0.005		0.005	-
	0616	09/18/87	0001	AL	D			0.025		0.005	-
	0616	04/04/89	0001	AL	D			0.009		0.005	-
	0616	06/01/90	0001	AL	D		<	.005		0.005	-
	0616	10/09/90	0001	AL	D		<	0.05	Ic	0.05	-
	0617	09/18/87	0001	AL	D			0.036		0.005	-
	0617	04/04/89	0001	AL	D			0.007		0.005	-
	0617	06/01/90	0001	AL	D		<	.005		0.005	-
	0617	10/09/90	0001	AL	D		<	0.05	Ic	0.05	-
	0618	09/18/87	0001	AL	D			0.033		0.005	-
	0619	09/19/87	0001	AL	D			0.051		0.005	-
	0619	04/05/89	0001	AL	D			0.038		0.005	-
	0619	06/01/90	0001	AL	D		<	.005		0.005	-
	0619	10/09/90	0001	AL	D		<	0.05	Ic	0.05	-
	0620	09/16/86	0001	AL	D			0.060		0.005	-
	0620	08/30/87	0001	AL	D			1.03		0.005	-
	0620	04/05/89	0001	AL	D			0.051		0.005	-
	0620	06/01/90	0001	AL	D		<	.005		0.005	-
	0621	09/15/86	0001	AL	D			0.060		0.005	-
	0621	09/01/87	0001	AL	D			1.34		0.005	-
	0622	09/16/86	0001	AL	D			0.059		0.005	-
	0622	09/01/87	0001	AL	D			1.18		0.005	-
	0623	09/01/87	0001	AL	D			1.03		0.005	-
	0624	09/18/86	0001	AL	D			0.040		0.005	-
	0624	09/01/87	0001	AL	D			1.32		0.005	-
	0624	04/04/89	0001	AL	D			0.041		0.005	-
	0624	10/09/90	0001	AL	D		<	0.05	Ic	0.05	-
	0625	09/03/87	0001	AL	D			1.39		0.005	-
	0626	09/01/87	0001	AL	D			0.934		0.005	-
	0626	04/05/89	0001	AL	D			0.016		0.005	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI	VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TIN	0626	06/04/90	0001	AL	D	MG/L	<	.005		0.005	-
	0626	10/11/90	0001	AL	D		<	0.05	Ic	0.05	-
	0627	09/14/86	0001	AL	D		<	0.005		0.005	-
	0627	09/16/87	0001	AL	D			0.615		0.005	-
	0628	09/16/87	0001	AL	D			0.592		0.005	-
	0628	04/05/89	0001	AL	D			0.022		0.005	-
	0628	06/04/90	0001	AL	D		<	.005		0.005	-
	0628	10/11/90	0001	AL	D		<	0.05	c	0.05	-
	0629	08/30/87	0001	AL	D			0.239		0.005	-
	0629	04/18/89	0001	AL	D			0.016		0.005	-
	0630	09/15/86	0001	AL	D		<	0.005		0.005	-
	0630	08/30/87	0001	AL	D			0.237		0.005	-
	0630	06/04/90	0001	AL	D		<	.005		0.005	-
	0630	10/10/90	0001	AL	D		<	0.05	Ic	0.05	-
	0631	09/20/86	0001	AL	D		<	0.005		0.005	-
	0631	08/30/87	0001	AL	D			0.203		0.005	-
	0632	09/20/86	0001	AL	D		<	0.005		0.005	-
	0632	09/01/87	0001	AL	D			0.196		0.005	-
	0632	11/12/87	0001	AL	D			0.025		0.005	-
	0633	04/19/89	0001	AL	D			0.027		0.005	-
	0638	03/19/87	0001	AL	D			0.009		0.005	-
	0638	05/14/87	0001	AL	D		<	0.005		0.005	-
	0638	09/25/87	0001	AL	D			0.006		0.005	-
	0638	04/20/89	0001	AL	D		<	0.005		0.005	-
	0639	03/19/87	0001	AL	D			0.008		0.005	-
	0639	05/14/87	0001	AL	D		<	0.005		0.005	-
	0639	09/25/87	0001	AL	D			0.016		0.005	-
	0639	04/20/89	0001	AL	D		<	0.005		0.005	-
	0640	03/19/87	0001	AL	D			0.008		0.005	-
	0640	09/24/87	0001	AL	D			0.026		0.005	-
	0640	04/19/89	0001	AL	D			0.033		0.005	-
	0641	03/18/87	0001	AL	D			0.010		0.005	-
	0641	05/14/87	0001	AL	D		<	0.005		0.005	-
	0641	09/24/87	0001	AL	D			0.052		0.005	-
	0641	04/18/89	0001	AL	D			0.054		0.005	-
	0642	03/19/87	0001	AL	D			0.009		0.005	-
	0642	05/20/87	0001	AL	D		<	0.005		0.005	-
	0642	09/23/87	0001	AL	D			0.043		0.005	-
	0642	04/18/89	0001	AL	D			0.046		0.005	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TIN	0643	03/19/87	0001	AL	D	MG/L	0.018		0.005	-
	0643	09/24/87	0001	AL	D		0.351		0.005	-
	0643	04/18/89	0001	AL	D		0.065		0.005	-
	0644	03/18/87	0001	AL	D		0.012		0.005	-
	0644	05/20/87	0001	AL	D		0.005	<	0.005	-
	0644	09/23/87	0001	AL	D		0.268		0.005	-
	0645	03/17/87	0001	AL	U		0.005	<	0.005	-
	0645	05/16/87	0001	AL	U		0.005	<	0.005	-
	0645	09/23/87	0001	AL	U		0.014		0.005	-
	0645	04/02/89	0001	AL	U		0.005	<	0.005	-
	0646	03/18/87	0001	AL	U		0.009		0.005	-
	0646	05/16/87	0001	AL	U		0.005	<	0.005	-
	0646	09/22/87	0001	AL	U		0.015		0.005	-
	0646	04/02/89	0001	AL	U		0.005	<	0.005	-
	0647	03/18/87	0001	AL	U		0.013		0.005	-
	0647	05/17/87	0001	AL	U		0.005	<	0.005	-
	0647	09/20/87	0001	AL	U		0.006		0.005	-
	0647	04/02/89	0001	AL	U		0.005	<	0.005	-
	0670	04/21/89	0001	AL	D		0.005	<	0.005	-
	0671	04/21/89	0001	AL	D		0.005	<	0.005	-
0672	04/22/89	0001	AL	D		0.005	<	0.005	-	
TOTAL DISSOLVED SOLIDS	0601	09/19/86	0001	AL	U	MG/L	534.0		10.0	-
	0602	09/18/87	0001	AL	D		4830.		10.0	-
	0603	09/03/87	0001	AL	D		38000.		10.0	-
	0603	04/06/89	0001	AL	D		27200.		10.0	-
	0603	06/04/90	0001	AL	D		32700.		10.0	-
	0604	09/03/87	0001	AL	D		858.		10.0	-
	0607	09/19/86	0001	AL	D		16000.0		10.0	-
	0607	09/01/87	0001	AL	D		24000.		10.0	-
	0608	09/18/86	0001	AL	D		16800.0		10.0	-
	0608	09/22/87	0001	AL	D		26000.		10.0	-
	0608	04/03/89	0001	AL	D		26500.		10.0	-
	0608	06/01/90	0001	AL	D		23300.		10.0	-
	0608	10/07/90	0001	AL	D		24400.		10.0	-
	0609	09/17/86	0001	AL	D		15800.0		10.0	-
	0609	09/21/87	0001	AL	D		26800.		10.0	-
	0610	09/18/86	0001	AL	D		12700.0		10.0	-
	0610	09/21/87	0001	AL	D		15500.		10.0	-
	0610	04/03/89	0001	AL	D		16200.		10.0	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

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	0610	06/01/90	0001	AL	D	MG/L	16700.		10.0	-
	0610	10/07/90	0001	AL	D		15300.		10.0	-
	0611	09/19/87	0001	AL	D		12300.		10.0	-
	0612	09/17/86	0001	AL	D		1990.0		10.0	-
	0612	09/19/87	0001	AL	D		2000.		10.0	-
	0612	04/03/89	0001	AL	D		1520.		10.0	-
	0613	09/18/86	0001	AL	D		14200.0		10.0	-
	0613	09/18/87	0001	AL	D		11900.		10.0	-
	0614	09/18/87	0001	AL	D		11200.		10.0	-
	0614	10/11/88	0001	AL	D		12300.		10.0	-
	0614	04/03/89	0001	AL	D		12100.		10.0	-
	0614	06/01/90	0001	AL	D		12100.		10.0	-
	0614	10/07/90	0001	AL	D		14300.		10.0	-
	0615	09/18/87	0001	AL	D		17200.		10.0	-
	0615	04/03/89	0001	AL	D		28200.		10.0	-
	0615	06/01/90	0001	AL	D		27100.		10.0	-
	0615	10/09/90	0001	AL	D		28600.		10.0	-
	0616	09/15/86	0001	AL	D		2350.0		10.0	-
	0616	09/18/87	0001	AL	D		3900.		10.0	-
	0616	04/04/89	0001	AL	D		4940.		10.0	-
	0616	06/01/90	0001	AL	D		5030.		10.0	-
	0616	10/09/90	0001	AL	D		4800.		10.0	-
	0617	09/18/87	0001	AL	D		21300.		10.0	-
	0617	04/04/89	0001	AL	D		6890.		10.0	-
	0617	06/01/90	0001	AL	D		6610.		10.0	-
	0617	10/09/90	0001	AL	D		6900.		10.0	-
	0618	09/18/87	0001	AL	D		9340.		10.0	-
	0618	10/11/88	0001	AL	D		5930.		10.0	-
	0619	09/19/87	0001	AL	D		22900.		10.0	-
	0619	04/05/89	0001	AL	D		26300.		10.0	-
	0619	06/01/90	0001	AL	D		25100.		10.0	-
	0619	10/09/90	0001	AL	D		18900.		10.0	-
	0620	09/16/86	0001	AL	D		26600.0		10.0	-
0620	08/30/87	0001	AL	D	24100.		10.0	-		
0620	04/05/89	0001	AL	D	17300.		10.0	-		
0620	06/01/90	0001	AL	D	13400.		10.0	-		
0621	09/15/86	0001	AL	D	25400.0		10.0	-		
0621	09/01/87	0001	AL	D	25000.		10.0	-		
0622	09/16/86	0001	AL	D	22100.0		10.0	-		
0622	09/01/87	0001	AL	D	26000.		10.0	-		
0623	09/01/87	0001	AL	D	22400.		10.0	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

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	0624	09/18/86	0001	AL	D	MG/L	22400.0		10.0	-
	0624	09/01/87	0001	AL	D		23700.		10.0	-
	0624	04/04/89	0001	AL	D		22700.		10.0	-
	0624	10/09/90	0001	AL	D		13600.		10.0	-
	0625	09/03/87	0001	AL	D		22600.		10.0	-
	0626	09/01/87	0001	AL	D		14100.		10.0	-
	0626	04/05/89	0001	AL	D		8650.		10.0	-
	0626	06/04/90	0001	AL	D		6630.		10.0	-
	0626	10/11/90	0001	AL	D		6180.		10.0	-
	0627	09/14/86	0001	AL	D		13700.0		10.0	-
	0627	09/16/87	0001	AL	D		8630.		10.0	-
	0628	09/16/87	0001	AL	D		9720.		10.0	-
	0628	04/05/89	0001	AL	D		6750.		10.0	-
	0628	06/04/90	0001	AL	D		6200.		10.0	-
	0628	10/11/90	0001	AL	D		6880.		10.0	-
	0629	08/30/87	0001	AL	D		5090.		10.0	-
	0629	04/18/89	0001	AL	D		4790.		10.0	-
	0630	09/15/86	0001	AL	D		5540.0		10.0	-
	0630	08/30/87	0001	AL	D		5160.		10.0	-
	0630	06/04/90	0001	AL	D		4860.		10.0	-
	0630	10/10/90	0001	AL	D		4670.		10.0	-
	0631	09/20/86	0001	AL	D		5940.0		10.0	-
	0631	08/30/87	0001	AL	D		5800.		10.0	-
	0632	09/20/86	0001	AL	D		5770.0		10.0	-
	0632	09/01/87	0001	AL	D		5480.		10.0	-
	0632	11/12/87	0001	AL	D		5490.		10.0	-
	0633	04/19/89	0001	AL	D		3650.		10.0	-
	0638	03/19/87	0001	AL	D		4260.		10.0	-
	0638	05/14/87	0001	AL	D		2770.		10.0	-
	0638	09/25/87	0001	AL	D		656.		10.0	-
	0638	10/09/88	0001	AL	D		822.		10.0	-
	0638	04/20/89	0001	AL	D		1380.		10.0	-
	0639	03/19/87	0001	AL	D		6860.		10.0	-
	0639	05/14/87	0001	AL	D		3210.		10.0	-
	0639	09/25/87	0001	AL	D		5380.		10.0	-
	0639	10/09/88	0001	AL	D		6400.		10.0	-
	0639	04/20/89	0001	AL	D		5490.		10.0	-
	0640	03/19/87	0001	AL	D		15200.		10.0	-
	0640	09/24/87	0001	AL	D		12900.		10.0	-
	0640	04/19/89	0001	AL	D		10400.		10.0	-
	0641	03/18/87	0001	AL	D		29900.		10.0	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

B-155

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	0641	05/14/87	0001	AL	D	MG/L	22300.		10.0	-
	0641	09/24/87	0001	AL	D		24300.		10.0	-
	0641	10/09/88	0001	AL	D		38800.		10.0	-
	0641	04/18/89	0001	AL	D		19300.		10.0	-
	0642	03/19/87	0001	AL	D		21600.		10.0	-
	0642	05/20/87	0001	AL	D		9880.		10.0	-
	0642	09/23/87	0001	AL	D		26600.		10.0	-
	0642	04/18/89	0001	AL	D		23300.		10.0	-
	0643	03/19/87	0001	AL	D		64200.		10.0	-
	0643	09/24/87	0001	AL	D		48800.		10.0	-
	0643	04/18/89	0001	AL	D		28700.		10.0	-
	0644	03/18/87	0001	AL	D		43100.		10.0	-
	0644	05/20/87	0001	AL	D		41700.		10.0	-
	0644	09/23/87	0001	AL	D		39900.		10.0	-
	0644	10/09/88	0001	AL	D		27000.		10.0	-
	0645	03/17/87	0001	AL	U		781.		10.0	-
	0645	05/16/87	0001	AL	U		641.		10.0	-
	0645	09/23/87	0001	AL	U		715.		10.0	-
	0645	04/02/89	0001	AL	U		2850.		10.0	-
	0646	03/18/87	0001	AL	U		1660.		10.0	-
	0646	05/16/87	0001	AL	U		1510.		10.0	-
	0646	09/22/87	0001	AL	U		1080.		10.0	-
	0646	10/09/88	0001	AL	U		1810.		10.0	-
	0646	04/02/89	0001	AL	U		800.		10.0	-
	0647	03/18/87	0001	AL	U		3060.		10.0	-
	0647	05/17/87	0001	AL	U		589.		10.0	-
	0647	09/20/87	0001	AL	U		312.		10.0	-
	0647	04/02/89	0001	AL	U		3210.		10.0	-
	0670	01/20/88	0001	AL	D		2440.		10.0	-
	0670	03/31/88	0001	AL	D		2110.		10.0	-
	0670	05/17/88	0001	AL	D		1790.		10.0	-
	0670	10/09/88	0001	AL	D		1360.		10.0	-
	0670	04/21/89	0001	AL	D		1700.		10.0	-
	0671	01/20/88	0001	AL	D		5680.		10.0	-
0671	03/31/88	0001	AL	D	4860.		10.0	-		
0671	05/17/88	0001	AL	D	2630.		10.0	-		
0671	10/09/88	0001	AL	D	1400.		10.0	-		
0671	04/21/89	0001	AL	D	2340.		10.0	-		
0672	01/20/88	0001	AL	D	3540.		10.0	-		
0672	03/31/88	0001	AL	D	1320.		10.0	-		

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER		DETECTION LIMIT	PARAMETER UNCERTAINTY
							PVI	VALUE		
TOTAL DISSOLVED SOLIDS	0672	05/17/88	0001	AL	D	MG/L		1410.	10.0	-
	0672	10/09/88	0001	AL	D			962.	10.0	-
	0672	04/22/89	0001	AL	D			1080.	10.0	-
TOTAL ORGANIC CARBON	0601	09/19/86	0001	AL	U	MG/L		50.	1.0	-
	0602	09/18/87	0001	AL	D			73.5	1.0	-
	0603	09/03/87	0001	AL	D			234.	1.0	-
	0603	04/06/89	0001	AL	D			199.	1.0	-
	0604	09/03/87	0001	AL	D			103.	1.0	-
	0607	09/19/86	0001	AL	D			180.	1.0	-
	0607	09/01/87	0001	AL	D			387.	1.0	-
	0608	09/18/86	0001	AL	D			220.	1.0	-
	0608	09/22/87	0001	AL	D			285.	1.0	-
	0608	04/03/89	0001	AL	D			298.	1.0	-
	0609	09/17/86	0001	AL	D			200.	1.0	-
	0609	09/21/87	0001	AL	D			317.	1.0	-
	0610	09/18/86	0001	AL	D			88.	1.0	-
	0610	09/21/87	0001	AL	D			147.	1.0	-
	0610	04/03/89	0001	AL	D			190.	1.0	-
	0611	09/19/87	0001	AL	D			175.	1.0	-
	0612	09/17/86	0001	AL	D			74.	1.0	-
	0612	09/19/87	0001	AL	D			79.0	1.0	-
	0612	04/03/89	0001	AL	D			56.3	1.0	-
	0613	09/18/86	0001	AL	D			170.	1.0	-
	0613	09/18/87	0001	AL	D			125.	1.0	-
	0614	09/18/87	0001	AL	D			130.	1.0	-
	0614	04/03/89	0001	AL	D			94.1	1.0	-
	0615	09/18/87	0001	AL	D			165.	1.0	-
	0615	04/03/89	0001	AL	D			143.	1.0	-
	0616	09/15/86	0001	AL	D			65.	1.0	-
	0616	09/18/87	0001	AL	D			95.0	1.0	-
	0616	04/04/89	0001	AL	D			89.4	1.0	-
	0617	09/18/87	0001	AL	D			120.	1.0	-
	0617	04/04/89	0001	AL	D			82.6	1.0	-
0618	09/18/87	0001	AL	D			100.	1.0	-	
0619	09/19/87	0001	AL	D			210.	1.0	-	
0619	04/05/89	0001	AL	D			29.3	1.0	-	
0620	09/16/86	0001	AL	D			290.	1.0	-	
0620	08/30/87	0001	AL	D			345.	1.0	-	
0620	04/05/89	0001	AL	D			40.1	1.0	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL ORGANIC CARBON	0621	09/15/86	0001	AL	D	MG/L	260.		1.0	-
	0621	09/01/87	0001	AL	D		344.		1.0	-
	0622	09/16/86	0001	AL	D		230.		1.0	-
	0622	09/01/87	0001	AL	D		53.2		1.0	-
	0623	09/01/87	0001	AL	D		256.		1.0	-
	0624	09/18/86	0001	AL	D		250.		1.0	-
	0624	09/01/87	0001	AL	D		268.		1.0	-
	0624	04/04/89	0001	AL	D		34.5		1.0	-
	0625	09/03/87	0001	AL	D		62.7		1.0	-
	0626	09/01/87	0001	AL	D		227.		1.0	-
	0626	04/05/89	0001	AL	D		116.		1.0	-
	0627	09/14/86	0001	AL	D		130.		1.0	-
	0627	09/16/87	0001	AL	D		86.6		1.0	-
	0628	09/16/87	0001	AL	D		112.		1.0	-
	0628	04/05/89	0001	AL	D		72.5		1.0	-
	0629	08/30/87	0001	AL	D		35.8		1.0	-
	0629	04/18/89	0001	AL	D		31.8		1.0	-
	0630	09/15/86	0001	AL	D		10.		1.0	-
	0630	08/30/87	0001	AL	D		36.7		1.0	-
	0631	09/20/86	0001	AL	D		130.		1.0	-
	0631	08/30/87	0001	AL	D		128.		1.0	-
	0632	09/20/86	0001	AL	D		90.		1.0	-
	0632	09/01/87	0001	AL	D		119.		1.0	-
	0632	11/12/87	0001	AL	D		70.9		1.0	-
	0633	04/19/89	0001	AL	D		34.3		1.0	-
	0638	03/19/87	0001	AL	D		33.8		1.0	-
	0638	05/14/87	0001	AL	D		162.		1.0	-
	0638	09/25/87	0001	AL	D		65.9		1.0	-
	0638	04/20/89	0001	AL	D		63.3		1.0	-
	0639	03/19/87	0001	AL	D		8.9		1.0	-
	0639	05/14/87	0001	AL	D		98.1		1.0	-
	0639	09/25/87	0001	AL	D		120.		1.0	-
	0639	04/20/89	0001	AL	D		110.		1.0	-
	0640	03/19/87	0001	AL	D		220.		1.0	-
	0640	09/24/87	0001	AL	D		188.		1.0	-
	0640	04/19/89	0001	AL	D		149.		1.0	-
	0641	03/18/87	0001	AL	D		295.		1.0	-
	0641	05/14/87	0001	AL	D		120.		1.0	-
	0641	09/24/87	0001	AL	D		350.		1.0	-
	0641	04/18/89	0001	AL	D		269.		1.0	-
	0642	03/19/87	0001	AL	D		158.		1.0	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL ORGANIC CARBON	0642	05/20/87	0001	AL	D	MG/L	130.		1.0	-
	0642	09/23/87	0001	AL	D		240.		1.0	-
	0642	04/18/89	0001	AL	D		237.		1.0	-
	0643	03/19/87	0001	AL	D		349.		1.0	-
	0643	09/24/87	0001	AL	D		300.		1.0	-
	0643	04/18/89	0001	AL	D		311.		1.0	-
	0644	03/18/87	0001	AL	D		207.		1.0	-
	0644	05/20/87	0001	AL	D		127.		1.0	-
	0644	09/23/87	0001	AL	D		190.		1.0	-
	0645	03/17/87	0001	AL	U		59.1		1.0	-
	0645	05/16/87	0001	AL	U		62.0		1.0	-
	0645	09/23/87	0001	AL	U		53.6		1.0	-
	0645	04/02/89	0001	AL	U		41.3		1.0	-
	0646	03/18/87	0001	AL	U		65.5		1.0	-
	0646	05/16/87	0001	AL	U		77.0		1.0	-
	0646	09/22/87	0001	AL	U		50.5		1.0	-
	0646	04/02/89	0001	AL	U		46.2		1.0	-
	0647	03/18/87	0001	AL	U		12.1		1.0	-
	0647	05/17/87	0001	AL	U		30.0		1.0	-
	0647	09/20/87	0001	AL	U		32.4		1.0	-
	0647	04/02/89	0001	AL	U		29.3		1.0	-
	0670	03/31/88	0001	AL	D		107.		1.0	-
	0670	04/21/89	0001	AL	D		82.6		1.0	-
	0671	03/31/88	0001	AL	D		211.		1.0	-
	0671	04/21/89	0001	AL	D		100.		1.0	-
	0672	03/31/88	0001	AL	D		116.8		1.0	-
	0672	04/22/89	0001	AL	D		57.8		1.0	-
	URANIUM	0601	09/19/86	0001	AL		U	MG/L	0.0048	
0602		09/18/87	0001	AL	D	0.348			0.003	-
0603		09/03/87	0001	AL	D	3.93			0.003	-
0603		04/06/89	0001	AL	D	2.33			0.003	-
0603		06/04/90	0001	AL	D	0.017			0.003	-
0604		09/03/87	0001	AL	D	0.411			0.003	-
0607		09/19/86	0001	AL	D	0.834			0.003	-
0607		09/01/87	0001	AL	D	1.96			0.003	-
0608		09/18/86	0001	AL	D	1.72			0.003	-
0608		09/22/87	0001	AL	D	3.30			0.003	-
0608		04/03/89	0001	AL	D	3.73			0.003	-
0608		06/01/90	0001	AL	D	3.25			0.003	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
URANIUM	0608	10/07/90	0001	AL	D	MG/L	2.71		0.001	-
	0609	09/17/86	0001	AL	D		2.17		0.003	-
	0609	09/21/87	0001	AL	D		3.04		0.003	-
	0610	09/18/86	0001	AL	D		1.03		0.003	-
	0610	09/21/87	0001	AL	D		0.920		0.003	-
	0610	04/03/89	0001	AL	D		1.92		0.003	-
	0610	06/01/90	0001	AL	D		1.88		0.003	-
	0610	10/07/90	0001	AL	D		1.57		0.001	-
	0611	09/19/87	0001	AL	D		0.719		0.003	-
	0612	09/17/86	0001	AL	D		0.192		0.003	-
	0612	09/19/87	0001	AL	D		0.165		0.003	-
	0612	04/03/89	0001	AL	D		0.263		0.003	-
	0613	09/18/86	0001	AL	D		1.80		0.003	-
	0613	09/18/87	0001	AL	D		0.801		0.003	-
	0614	09/18/87	0001	AL	D		0.830		0.003	-
	0614	10/11/88	0001	AL	D		1.24		0.003	-
	0614	04/03/89	0001	AL	D		1.30		0.003	-
	0614	06/01/90	0001	AL	D		1.37		0.003	-
	0614	10/07/90	0001	AL	D		1.61		0.001	-
	0615	09/18/87	0001	AL	D		1.64		0.003	-
	0615	04/03/89	0001	AL	D		4.07		0.003	-
	0615	06/01/90	0001	AL	D		3.00		0.003	-
	0615	10/09/90	0001	AL	D		2.93		0.001	-
	0616	09/15/86	0001	AL	D		0.184		0.003	-
	0616	09/18/87	0001	AL	D		0.433		0.003	-
	0616	04/04/89	0001	AL	D		0.305		0.003	-
	0616	06/01/90	0001	AL	D		0.274		0.003	-
	0616	10/09/90	0001	AL	D		0.348		0.001	-
	0617	09/18/87	0001	AL	D		0.355		0.003	-
	0617	04/04/89	0001	AL	D		0.373		0.003	-
	0617	06/01/90	0001	AL	D		0.327		0.003	-
	0617	10/09/90	0001	AL	D		0.466		0.001	-
	0618	09/18/87	0001	AL	D		0.415		0.003	-
	0618	10/11/88	0001	AL	D		0.424		0.003	-
	0619	09/19/87	0001	AL	D		2.34		0.003	-
	0619	04/05/89	0001	AL	D		3.14		0.003	-
	0619	06/01/90	0001	AL	D		2.31		0.003	-
	0619	10/09/90	0001	AL	D		1.99		0.001	-
	0620	09/16/86	0001	AL	D		2.34		0.003	-
	0620	08/30/87	0001	AL	D		2.11		0.003	-
0620	04/05/89	0001	AL	D		1.60		0.003	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

B-160

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
URANIUM	0620	06/01/90	0001	AL	D	MG/L	1.11		0.003	-
	0621	09/15/86	0001	AL	D		2.39		0.003	-
	0621	09/01/87	0001	AL	D		2.19		0.003	-
	0622	09/16/86	0001	AL	D		2.50		0.003	-
	0622	09/01/87	0001	AL	D		3.07		0.003	-
	0623	09/01/87	0001	AL	D		1.67		0.003	-
	0624	09/18/86	0001	AL	D		1.34		0.003	-
	0624	09/01/87	0001	AL	D		1.84		0.003	-
	0624	04/04/89	0001	AL	D		2.57		0.003	-
	0624	10/09/90	0001	AL	D		1.02		0.001	-
	0625	09/03/87	0001	AL	D		2.11		0.003	-
	0626	09/01/87	0001	AL	D		1.22		0.003	-
	0626	04/05/89	0001	AL	D		0.560		0.003	-
	0626	06/04/90	0001	AL	D		0.227		0.003	-
	0626	10/11/90	0001	AL	D		0.264		0.001	-
	0627	09/14/86	0001	AL	D		0.948		0.003	-
	0627	09/16/87	0001	AL	D		0.388		0.003	-
	0628	09/16/87	0001	AL	D		0.405		0.003	-
	0628	04/05/89	0001	AL	D		0.314		0.003	-
	0628	06/04/90	0001	AL	D		0.196		0.003	-
	0628	10/11/90	0001	AL	D		0.229		0.001	-
	0629	08/30/87	0001	AL	D		0.0316		0.003	-
	0629	04/18/89	0001	AL	D		0.0299		0.003	-
	0630	09/15/86	0001	AL	D		0.184		0.003	-
	0630	08/30/87	0001	AL	D		0.0307		0.003	-
	0630	06/04/90	0001	AL	D		0.037		0.003	-
	0630	10/10/90	0001	AL	D		0.093		0.001	-
	0631	09/20/86	0001	AL	D		0.0185		0.003	-
	0631	08/30/87	0001	AL	D		0.0100		0.003	-
	0632	09/20/86	0001	AL	D		0.0157		0.003	-
	0632	09/01/87	0001	AL	D		0.0093		0.003	-
	0632	11/12/87	0001	AL	D		0.0167		0.003	-
	0633	04/19/89	0001	AL	D		0.0260		0.003	-
	0638	03/19/87	0001	AL	D		0.0139		0.003	-
	0638	05/14/87	0001	AL	D		0.0085		0.003	-
	0638	09/25/87	0001	AL	D		0.0024	c	0.0024	-
	0638	10/09/88	0001	AL	D		0.0023	c	0.0023	-
	0638	04/20/89	0001	AL	D		0.0016	c	0.0016	-
	0639	03/19/87	0001	AL	D		0.0370		0.003	-
	0639	05/14/87	0001	AL	D		0.0109		0.003	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
URANIUM	0639	09/25/87	0001	AL	D	MG/L	0.0191		0.003	-
	0639	10/09/88	0001	AL	D		0.0366		0.003	-
	0639	04/20/89	0001	AL	D		0.0156		0.003	-
	0640	03/19/87	0001	AL	D		0.0153		0.003	-
	0640	09/24/87	0001	AL	D		0.182		0.003	-
	0640	04/19/89	0001	AL	D		0.0890		0.003	-
	0641	03/18/87	0001	AL	D		1.79		0.003	-
	0641	05/14/87	0001	AL	D		0.487		0.003	-
	0641	09/24/87	0001	AL	D		1.59		0.003	-
	0641	10/09/88	0001	AL	D		2.34		0.003	-
	0641	04/18/89	0001	AL	D		1.31		0.003	-
	0642	03/19/87	0001	AL	D		0.726		0.003	-
	0642	05/20/87	0001	AL	D		0.194		0.003	-
	0642	09/23/87	0001	AL	D		1.32		0.003	-
	0642	04/18/89	0001	AL	D		1.70		0.003	-
	0643	03/19/87	0001	AL	D		4.32		0.003	-
	0643	09/24/87	0001	AL	D		3.07		0.003	-
	0643	04/18/89	0001	AL	D		1.82		0.003	-
	0644	03/18/87	0001	AL	D		1.63		0.003	-
	0644	05/20/87	0001	AL	D		0.785		0.003	-
	0644	09/23/87	0001	AL	D		1.41		0.003	-
	0644	10/09/88	0001	AL	D		1.13		0.003	-
	0645	03/17/87	0001	AL	U		0.0153		0.003	-
	0645	05/16/87	0001	AL	U		0.0143		0.003	-
	0645	09/23/87	0001	AL	U		0.0113		0.003	-
	0645	04/02/89	0001	AL	U		0.0663		0.003	-
	0646	03/18/87	0001	AL	U		0.0848		0.003	-
	0646	05/16/87	0001	AL	U		0.0875		0.003	-
	0646	09/22/87	0001	AL	U		0.0438		0.003	-
	0646	10/09/88	0001	AL	U		0.0583		0.003	-
	0646	04/02/89	0001	AL	U		0.0323		0.003	-
	0647	03/18/87	0001	AL	U		0.245		0.003	-
	0647	05/17/87	0001	AL	U		0.252		0.003	-
	0647	09/20/87	0001	AL	U		0.0135		0.003	-
	0647	04/02/89	0001	AL	U		0.125		0.003	-
	0670	01/20/88	0001	AL	D		0.0207		0.003	-
	0670	03/31/88	0001	AL	D		0.0237		0.003	-
	0670	05/17/88	0001	AL	D		0.0093		0.003	-
	0670	10/09/88	0001	AL	D		0.0064		0.003	-
	0670	04/21/89	0001	AL	D		0.0018	c	0.0018	-

B-161

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)

APPENDIX B

SITE: SHP01 SHIPROCK

09/14/86 TO 01/08/91

REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER		DETECTION LIMIT	PARAMETER UNCERTAINTY
							PVI	VALUE		
URANIUM	0671	01/20/88	0001	AL	D	MG/L		0.0671	0.003	-
	0671	03/31/88	0001	AL	D			0.0287	0.003	-
	0671	05/17/88	0001	AL	D			0.0215	0.003	-
	0671	10/09/88	0001	AL	D			0.0154	0.003	-
	0671	04/21/89	0001	AL	D			0.0115	0.003	-
	0672	01/20/88	0001	AL	D			0.0597	0.003	-
	0672	03/31/88	0001	AL	D			0.0151	0.003	-
	0672	05/17/88	0001	AL	D			0.0122	0.003	-
	0672	10/09/88	0001	AL	D			0.0074	0.003	-
	0672	04/22/89	0001	AL	D			0.0079	0.003	-
VANADIUM	0601	09/19/86	0001	AL	U	MG/L		0.27	0.01	-
	0602	09/18/87	0001	AL	D			0.07	0.01	-
	0603	09/03/87	0001	AL	D			0.17	0.01	-
	0603	04/06/89	0001	AL	D			0.13	0.01	-
	0603	06/04/90	0001	AL	D			.18	0.01	-
	0604	09/03/87	0001	AL	D			0.07	0.01	-
	0607	09/19/86	0001	AL	D			0.21	0.01	-
	0607	09/01/87	0001	AL	D			0.15	0.01	-
	0608	09/18/86	0001	AL	D			0.21	0.01	-
	0608	09/22/87	0001	AL	D			0.17	0.01	-
	0608	04/03/89	0001	AL	D			0.16	0.01	-
	0608	06/01/90	0001	AL	D		<	.01	0.01	-
	0608	10/07/90	0001	AL	D		<	0.02	0.02	-
	0609	09/17/86	0001	AL	D			0.23	0.01	-
	0609	09/21/87	0001	AL	D			0.20	0.01	-
	0610	09/18/86	0001	AL	D			0.20	0.01	-
	0610	09/21/87	0001	AL	D			0.17	0.01	-
	0610	04/03/89	0001	AL	D			0.11	0.01	-
	0610	06/01/90	0001	AL	D		<	.01	0.01	-
	0610	10/07/90	0001	AL	D		<	0.01	0.01	-
	0611	09/19/87	0001	AL	D			0.10	0.01	-
	0612	09/17/86	0001	AL	D			0.23	0.01	-
	0612	09/19/87	0001	AL	D			0.04	0.01	-
0612	04/03/89	0001	AL	D			0.02	0.01	-	
0613	09/18/86	0001	AL	D			0.16	0.01	-	
0613	09/18/87	0001	AL	D			0.13	0.01	-	
0614	09/18/87	0001	AL	D			0.12	0.01	-	

FORMATION OF COMPLETION CODE:
AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
D - DOWN GRADIENT
U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
c - CHANGED DETECTION LIMIT

B-162

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
VANADIUM	0614	10/11/88	0001	AL	D	MG/L		0.11		0.01	-
	0614	04/03/89	0001	AL	D			0.10		0.01	-
	0614	06/01/90	0001	AL	D		<	.01		0.01	-
	0614	10/07/90	0001	AL	D		<	0.01		0.01	-
	0615	09/18/87	0001	AL	D			0.14		0.01	-
	0615	04/03/89	0001	AL	D			0.16		0.01	-
	0615	06/01/90	0001	AL	D		<	.01		0.01	-
	0615	10/09/90	0001	AL	D			0.16		0.01	-
	0616	09/15/86	0001	AL	D			0.16		0.01	-
	0616	09/18/87	0001	AL	D			0.07		0.01	-
	0616	04/04/89	0001	AL	D			0.06		0.01	-
	0616	06/01/90	0001	AL	D		<	.01		0.01	-
	0616	10/09/90	0001	AL	D		<	0.01		0.01	-
	0617	09/18/87	0001	AL	D			0.12		0.01	-
	0617	04/04/89	0001	AL	D			0.07		0.01	-
	0617	06/01/90	0001	AL	D		<	.01		0.01	-
	0617	10/09/90	0001	AL	D		<	0.01		0.01	-
	0618	09/18/87	0001	AL	D			0.16		0.01	-
	0618	10/11/88	0001	AL	D			0.07		0.01	-
	0619	09/19/87	0001	AL	D			0.27		0.01	-
	0619	04/05/89	0001	AL	D			0.16		0.01	-
	0619	06/01/90	0001	AL	D		<	.01		0.01	-
	0619	10/09/90	0001	AL	D		<	0.01		0.01	-
	0620	09/16/86	0001	AL	D			0.23		0.01	-
	0620	08/30/87	0001	AL	D			0.16		0.01	-
	0620	04/05/89	0001	AL	D			0.12		0.01	-
	0620	06/01/90	0001	AL	D		<	.01		0.01	-
	0621	09/15/86	0001	AL	D			0.26		0.01	-
	0621	09/01/87	0001	AL	D			0.16		0.01	-
	0622	09/16/86	0001	AL	D			0.24		0.01	-
	0622	09/01/87	0001	AL	D			0.17		0.01	-
	0623	09/01/87	0001	AL	D			0.15		0.01	-
	0624	09/18/86	0001	AL	D			0.26		0.01	-
	0624	09/01/87	0001	AL	D			0.15		0.01	-
0624	04/04/89	0001	AL	D			0.14		0.01	-	
0624	10/09/90	0001	AL	D		<	0.01		0.01	-	
0625	09/03/87	0001	AL	D			0.15		0.01	-	
0626	09/01/87	0001	AL	D			0.11		0.01	-	
0626	04/05/89	0001	AL	D			0.08		0.01	-	
0626	06/04/90	0001	AL	D			.02		0.01	-	
0626	10/11/90	0001	AL	D		<	0.01		0.01	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER		DETECTION LIMIT	PARAMETER UNCERTAINTY	
							PVI	VALUE			
VANADIUM	0627	09/14/86	0001	AL	D	MG/L		0.27	0.01	-	
	0627	09/16/87	0001	AL	D			0.08	0.01	-	
	0628	09/16/87	0001	AL	D			0.08	0.01	-	
	0628	04/05/89	0001	AL	D			0.06	0.01	-	
	0628	06/04/90	0001	AL	D			.02	0.01	-	
	0628	10/11/90	0001	AL	D		<	0.01	0.01	-	
	0629	08/30/87	0001	AL	D			0.08	0.01	-	
	0629	04/18/89	0001	AL	D			0.05	0.01	-	
	0630	09/15/86	0001	AL	D			0.20	0.01	-	
	0630	08/30/87	0001	AL	D			0.12	0.01	-	
	0630	06/04/90	0001	AL	D			.03	0.01	-	
	0630	10/10/90	0001	AL	D			0.02	0.01	-	
	0631	09/20/86	0001	AL	D			0.20	0.01	-	
	0631	08/30/87	0001	AL	D			0.19	0.01	-	
	0632	09/20/86	0001	AL	D			0.11	0.01	-	
	0632	09/01/87	0001	AL	D			0.07	0.01	-	
	0632	11/12/87	0001	AL	D			0.07	0.01	-	
	0633	04/19/89	0001	AL	D			0.03	0.01	-	
	0638	03/19/87	0001	AL	D		<	0.1	c	0.1	-
	0638	05/14/87	0001	AL	D			0.02	0.01	0.01	-
	0638	09/25/87	0001	AL	D			0.02	0.01	0.01	-
	0638	10/09/88	0001	AL	D			0.01	0.01	0.01	-
	0638	04/20/89	0001	AL	D			0.02	0.01	0.01	-
	0639	03/19/87	0001	AL	D		<	0.1	c	0.1	-
	0639	05/14/87	0001	AL	D			0.05	0.01	0.01	-
	0639	09/25/87	0001	AL	D			0.07	0.01	0.01	-
	0639	10/09/88	0001	AL	D			0.07	0.01	0.01	-
	0639	04/20/89	0001	AL	D			0.07	0.01	0.01	-
	0640	03/19/87	0001	AL	D		<	0.1	c	0.1	-
	0640	09/24/87	0001	AL	D			0.09	0.01	0.01	-
	0640	04/19/89	0001	AL	D			0.07	0.01	0.01	-
	0641	03/18/87	0001	AL	D		<	0.1	c	0.1	-
	0641	05/14/87	0001	AL	D			0.11	0.01	0.01	-
	0641	09/24/87	0001	AL	D			0.13	0.01	0.01	-
	0641	10/09/88	0001	AL	D			0.16	0.01	0.01	-
	0641	04/18/89	0001	AL	D			0.10	0.01	0.01	-
	0642	03/19/87	0001	AL	D		<	0.1	c	0.1	-
	0642	05/20/87	0001	AL	D			0.08	0.01	0.01	-
	0642	09/23/87	0001	AL	D			0.16	0.01	0.01	-
	0642	04/18/89	0001	AL	D			0.14	0.01	0.01	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

B-165

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI	VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
VANADIUM	0643	03/19/87	0001	AL	D	MG/L	<	0.1	c	0.1	-
	0643	09/24/87	0001	AL	D		0.18		0.01	-	
	0643	04/18/89	0001	AL	D		0.12		0.01	-	
	0644	03/18/87	0001	AL	D		<	0.1	c	0.1	-
	0644	05/20/87	0001	AL	D		0.20		0.01	-	
	0644	09/23/87	0001	AL	D		0.20		0.01	-	
	0644	10/09/88	0001	AL	D		0.15		0.01	-	
	0645	03/17/87	0001	AL	U		<	0.1	c	0.1	-
	0645	05/16/87	0001	AL	U		0.02		0.01	-	
	0645	09/23/87	0001	AL	U		0.02		0.01	-	
	0645	04/02/89	0001	AL	U		0.03		0.01	-	
	0646	03/18/87	0001	AL	U		<	0.1	c	0.1	-
	0646	05/16/87	0001	AL	U		0.03		0.01	-	
	0646	09/22/87	0001	AL	U		0.03		0.01	-	
	0646	10/09/88	0001	AL	U		0.03		0.01	-	
	0646	04/02/89	0001	AL	U		<	0.01		0.01	-
	0647	03/18/87	0001	AL	U		<	0.2	c	0.2	-
	0647	05/17/87	0001	AL	U		0.01		0.01	-	
	0647	09/20/87	0001	AL	U		<	0.01		0.01	-
	0647	04/02/89	0001	AL	U		0.03		0.01	-	
	0670	01/20/88	0001	AL	D		0.05		0.01	-	
	0670	03/31/88	0001	AL	D		0.05		0.01	-	
	0670	05/17/88	0001	AL	D		0.01		0.01	-	
	0670	10/09/88	0001	AL	D		0.03		0.01	-	
	0670	04/21/89	0001	AL	D		0.03		0.01	-	
	0671	01/20/88	0001	AL	D		0.07		0.01	-	
	0671	03/31/88	0001	AL	D		0.06		0.01	-	
	0671	05/17/88	0001	AL	D		0.01		0.01	-	
	0671	10/09/88	0001	AL	D		0.02		0.01	-	
	0671	04/21/89	0001	AL	D		0.04		0.01	-	
	0672	01/20/88	0001	AL	D		0.05		0.01	-	
	0672	03/31/88	0001	AL	D		0.03		0.01	-	
0672	05/17/88	0001	AL	D	<	0.01		0.01	-		
0672	10/09/88	0001	AL	D	0.02		0.01	-			
0672	04/22/89	0001	AL	D	0.03		0.01	-			
ZINC	0601	09/19/86	0001	AL	U	MG/L		0.373		0.005	-
	0602	09/18/87	0001	AL	D		0.347		0.005	-	
	0603	09/03/87	0001	AL	D		0.662		0.005	-	

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ZINC	0603	04/06/89	0001	AL	D	MG/L	0.204		0.005	-
	0603	06/04/90	0001	AL	D		.053		0.005	-
	0604	09/03/87	0001	AL	D		0.386		0.005	-
	0607	09/19/86	0001	AL	D		0.728		0.005	-
	0607	09/01/87	0001	AL	D		1.363		0.005	-
	0608	09/18/86	0001	AL	D		0.151		0.005	-
	0608	09/22/87	0001	AL	D		0.125		0.005	-
	0608	04/03/89	0001	AL	D		0.133		0.005	-
	0608	06/01/90	0001	AL	D		.062		0.005	-
	0608	10/07/90	0001	AL	D		0.09		0.005	-
	0609	09/17/86	0001	AL	D		0.203		0.005	-
	0609	09/21/87	0001	AL	D		0.211		0.005	-
	0610	09/18/86	0001	AL	D		0.073		0.005	-
	0610	09/21/87	0001	AL	D		0.054		0.005	-
	0610	04/03/89	0001	AL	D		0.070		0.005	-
	0610	06/01/90	0001	AL	D		.023		0.005	-
	0610	10/07/90	0001	AL	D		0.032		0.005	-
	0611	09/19/87	0001	AL	D		0.013		0.005	-
	0612	09/17/86	0001	AL	D		0.021		0.005	-
	0612	09/19/87	0001	AL	D		< 0.005		0.005	-
	0612	04/03/89	0001	AL	D		0.011		0.005	-
	0613	09/18/86	0001	AL	D		0.133		0.005	-
	0613	09/18/87	0001	AL	D		0.102		0.005	-
	0614	09/18/87	0001	AL	D		0.077		0.005	-
	0614	10/11/88	0001	AL	D		0.113		0.005	-
	0614	04/03/89	0001	AL	D		0.087		0.005	-
	0614	06/01/90	0001	AL	D		.081		0.005	-
	0614	10/07/90	0001	AL	D		0.099		0.005	-
	0615	09/18/87	0001	AL	D		0.008		0.005	-
	0615	04/03/89	0001	AL	D		0.021		0.005	-
	0615	06/01/90	0001	AL	D		< .005		0.005	-
	0615	10/09/90	0001	AL	D		< 0.01	1c	0.01	-
	0616	09/15/86	0001	AL	D		0.067		0.005	-
	0616	09/18/87	0001	AL	D		0.064		0.005	-
	0616	04/04/89	0001	AL	D		0.098		0.005	-
	0616	06/01/90	0001	AL	D		.100		0.005	-
	0616	10/09/90	0001	AL	D		0.105		0.005	-
	0617	09/18/87	0001	AL	D		0.009		0.005	-
	0617	04/04/89	0001	AL	D		0.009		0.005	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI	VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ZINC	0617	06/01/90	0001	AL	D	MG/L	<	.005		0.005	-
	0617	10/09/90	0001	AL	D		<	0.01	Ic	0.01	-
	0618	09/18/87	0001	AL	D		<	0.005		0.005	-
	0618	10/11/88	0001	AL	D			0.016		0.005	-
	0619	09/19/87	0001	AL	D			0.078		0.005	-
	0619	04/05/89	0001	AL	D			0.108		0.005	-
	0619	06/01/90	0001	AL	D			.034		0.005	-
	0619	10/09/90	0001	AL	D		<	0.03	Ic	0.03	-
	0620	09/16/86	0001	AL	D			0.101		0.005	-
	0620	08/30/87	0001	AL	D			0.038		0.005	-
	0620	04/05/89	0001	AL	D			0.054		0.005	-
	0620	06/01/90	0001	AL	D			.023		0.005	-
	0621	09/15/86	0001	AL	D			0.204		0.005	-
	0621	09/01/87	0001	AL	D			0.066		0.005	-
	0622	09/16/86	0001	AL	D			0.973		0.005	-
	0622	09/01/87	0001	AL	D			0.740		0.005	-
	0623	09/01/87	0001	AL	D			0.013		0.005	-
	0624	09/18/86	0001	AL	D			0.055		0.005	-
	0624	09/01/87	0001	AL	D		<	0.005		0.005	-
	0624	04/04/89	0001	AL	D		<	0.005		0.005	-
	0624	10/09/90	0001	AL	D		<	0.03	Ic	0.03	-
	0625	09/03/87	0001	AL	D			0.010		0.005	-
	0626	09/01/87	0001	AL	D			0.094		0.005	-
	0626	04/05/89	0001	AL	D			0.073		0.005	-
	0626	06/04/90	0001	AL	D			.053		0.005	-
	0626	10/11/90	0001	AL	D			0.039		0.005	-
	0627	09/14/86	0001	AL	D			0.065		0.005	-
	0627	09/16/87	0001	AL	D			0.039		0.005	-
	0628	09/16/87	0001	AL	D			0.028		0.005	-
	0628	04/05/89	0001	AL	D			0.032		0.005	-
	0628	06/04/90	0001	AL	D			.022		0.005	-
	0628	10/11/90	0001	AL	D			0.012		0.005	-
	0629	08/30/87	0001	AL	D			0.029		0.005	-
	0629	04/18/89	0001	AL	D			0.033		0.005	-
	0630	09/15/86	0001	AL	D			0.094		0.005	-
	0630	08/30/87	0001	AL	D			0.025		0.005	-
	0630	06/04/90	0001	AL	D			.039		0.005	-
	0630	10/10/90	0001	AL	D			0.029		0.005	-
	0631	09/20/86	0001	AL	D			0.020		0.005	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT
 OTHER PARAMETER VALUE FLAGS: I - INTERFERENCE-DILUTION OF SAMPLE
 c - CHANGED DETECTION LIMIT

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ZINC	0631	08/30/87	0001	AL	D	MG/L	<	0.005		0.005	-
	0632	09/20/86	0001	AL	D			0.020		0.005	-
	0632	09/01/87	0001	AL	D		<	0.005		0.005	-
	0632	11/12/87	0001	AL	D			0.006		0.005	-
	0633	04/19/89	0001	AL	D		<	0.005		0.005	-
	0638	03/19/87	0001	AL	D			9.52		0.005	-
	0638	05/14/87	0001	AL	D			1.64		0.005	-
	0638	09/25/87	0001	AL	D			0.562		0.005	-
	0638	10/09/88	0001	AL	D			0.661		0.005	-
	0638	04/20/89	0001	AL	D			0.469		0.005	-
	0639	03/19/87	0001	AL	D			6.83		0.005	-
	0639	05/14/87	0001	AL	D			2.38		0.005	-
	0639	09/25/87	0001	AL	D			2.31		0.005	-
	0639	10/09/88	0001	AL	D			0.621		0.005	-
	0639	04/20/89	0001	AL	D			0.350		0.005	-
	0640	03/19/87	0001	AL	D			6.80		0.005	-
	0640	09/24/87	0001	AL	D			3.19		0.005	-
	0640	04/19/89	0001	AL	D			1.91		0.005	-
	0641	03/18/87	0001	AL	D			6.97		0.005	-
	0641	05/14/87	0001	AL	D			6.70		0.005	-
	0641	09/24/87	0001	AL	D			3.58		0.005	-
	0641	10/09/88	0001	AL	D			1.12		0.005	-
	0641	04/18/89	0001	AL	D			0.333		0.005	-
	0642	03/19/87	0001	AL	D			6.98		0.005	-
	0642	05/20/87	0001	AL	D			4.12		0.005	-
	0642	09/23/87	0001	AL	D			1.36		0.005	-
	0642	04/18/89	0001	AL	D			0.361		0.005	-
	0643	03/19/87	0001	AL	D			14.6		0.005	-
	0643	09/24/87	0001	AL	D			0.205		0.005	-
	0643	04/18/89	0001	AL	D			0.033		0.005	-
	0644	03/18/87	0001	AL	D			4.52		0.005	-
	0644	05/20/87	0001	AL	D			3.99		0.005	-
	0644	09/23/87	0001	AL	D			2.25		0.005	-
	0644	10/09/88	0001	AL	D			1.12		0.005	-
	0645	03/17/87	0001	AL	U			1.14		0.005	-
	0645	05/16/87	0001	AL	U			0.29		0.005	-
	0645	09/23/87	0001	AL	U			0.473		0.005	-
	0645	04/02/89	0001	AL	U			0.825		0.005	-
	0646	03/18/87	0001	AL	U			5.26		0.005	-
	0646	05/16/87	0001	AL	U			1.84		0.005	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 D - DOWN GRADIENT
 U - UPGRADIENT

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

GROUNDWATER QUALITY DATA BY PARAMETER, (FLOODPLAIN ALLUVIUM)
 APPENDIX B
 SITE: SHP01 SHIPROCK
 09/14/86 TO 01/08/91
 REPORT DATE: 05/16/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	FORM COMP	FLOW REL.	UNITS OF MEASURE	PARAMETER PVI VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ZINC	0646	09/22/87	0001	AL	U	MG/L	0.789		0.005	-
	0646	10/09/88	0001	AL	U		1.17		0.005	-
	0646	04/02/89	0001	AL	U		2.26		0.005	-
	0647	03/18/87	0001	AL	U		9.07		0.005	-
	0647	05/17/87	0001	AL	U		0.909		0.005	-
	0647	09/20/87	0001	AL	U		0.748		0.005	-
	0647	04/02/89	0001	AL	U		1.06		0.005	-
	0670	10/09/88	0001	AL	D		0.730		0.005	-
	0670	04/21/89	0001	AL	D		1.96		0.005	-
	0671	10/09/88	0001	AL	D		1.58		0.005	-
	0671	04/21/89	0001	AL	D		0.073		0.005	-
	0672	10/09/88	0001	AL	D		2.38		0.005	-
	0672	04/22/89	0001	AL	D		1.27		0.005	-

FORMATION OF COMPLETION CODE:
 AL - ALLUVIUM

FLOW RELATIONSHIP CODE:
 U - UPGRADIENT
 D - DOWN GRADIENT

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

DATA FILE NAME: M:\DART\SHPO1\GWQ10013.DAT

