APPENDIX A

SOUTHWEST ALLUVIUM MONITORING DATA

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The Southwest Alluvium Remedial Action System was installed in August 1989 and began operating in October 1989. The initial system consisted of three extraction wells (Wells 801, 802, and 803) and four water-level observation wells (Wells 804, 805, 806, and 807). An additional extraction well, Well 808, was installed and began operating in June 1991 as required by the Nuclear Regulatory Commission and the U.S. Environmental Protection Agency (EPA). Extraction Wells 801, 802, and 803 are monitored for water quality and Observation Wells 804, 805, 806, and 807 are monitored for water level elevations on a quarterly basis. Well 801 was decommissioned at the end of July 1999 because it pumped at a rate of less than 0.5 gallon per minute for the previous eight years.

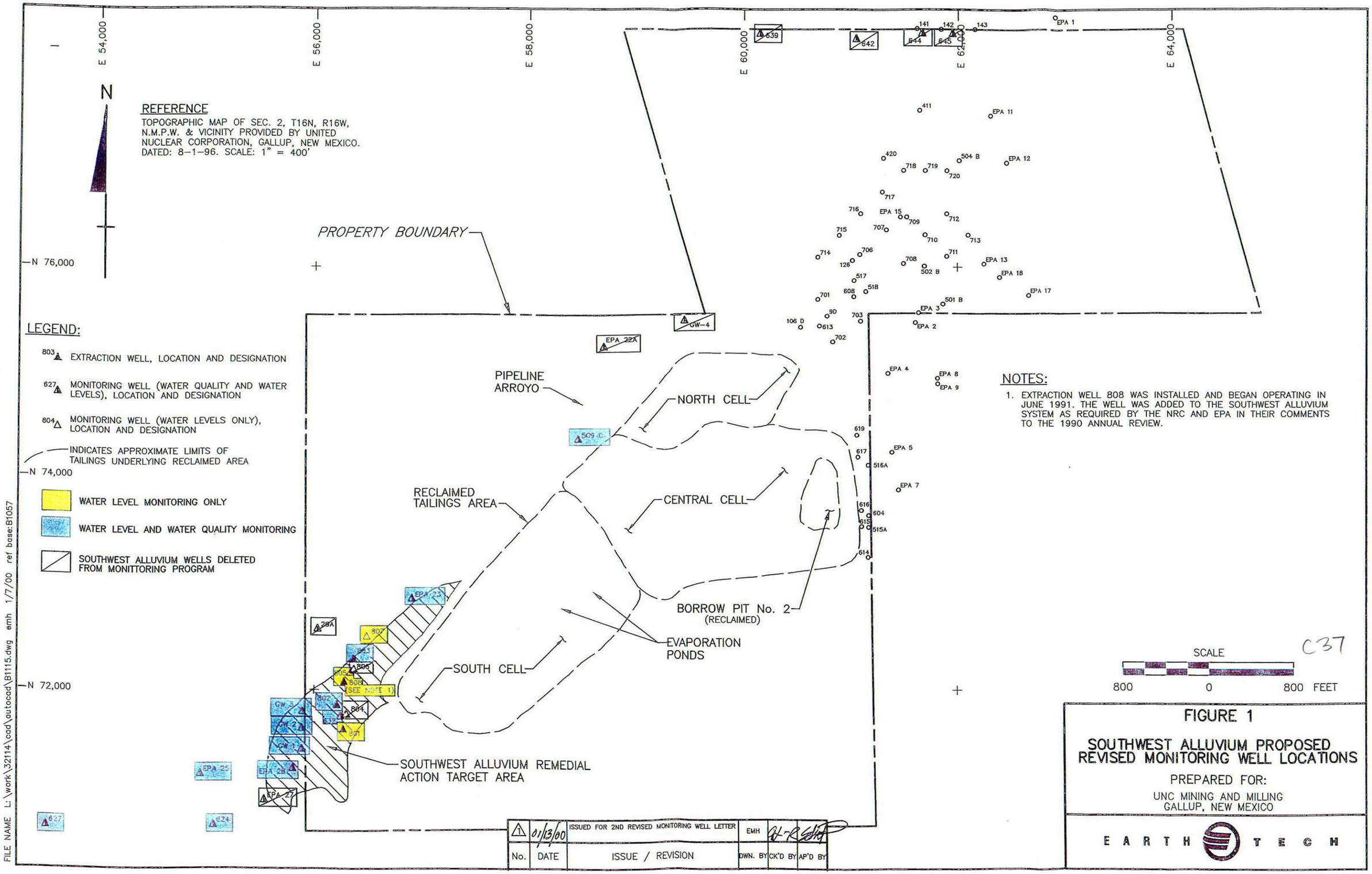
Water level elevations and water quality data have also been collected on a quarterly basis from 18 monitoring wells located up-, down-, and cross-gradient from the tailings area. The 18 monitoring wells include Wells GW 1, GW 2, GW 3, GW 4, EPA 22A, EPA 23, EPA 25, EPA 27, EPA 28, 509 D, 632, 29 A, 624, 627, 639, 642, 644, and 645. All of these wells except for Wells EPA 27 and 29 A are completed in the alluvium. Well EPA 27 is completed partially in the alluvium and partially in the Mancos formation, and Well 29 A is completed in the underlying Zone 1 formation. Consequently, water quality data collected from these two wells may not be representative of alluvial ground water conditions.

Beginning with the second quarter of 2000, the revised monitoring program was implemented. Changes to the wells included in the monitoring program for the Southwest Alluvium are shown in Table 4 of the 2000 Annual Report. See the enclosed figure for the current layout of the wells.

Beginning in January 2001, a natural attenuation test was implemented as requested during the November 14, 2000, meeting in Sante Fe, New Mexico, and as documented in the EPA's email letter from Greg Lyssy dated November 15, 2000 (Lyssy 2000). For this test, Extraction Wells 802, 803, and 808 have been turned off and added to the revised monitoring program wells. During the 18-month test period, the wells were sampled and water level elevations are measured on a monthly basis. The results of the Natural Attenuation Test were provided in a final report submitted in November 2002 (Earth Tech, Inc., 2002c).

Table A.1 presents the quarterly water level and water quality data for the observation and monitoring wells from the start of the annual period and monthly beginning in January 2001 through the fourth quarter of 2002. Changes to data reported related to implementing the revised monitoring program and the natural attenuation test are also reflected in Table A.1. The laboratory analytical data for 2002 are presented at the end of this appendix.

FIGURE



E 54,000
E 56,000
E 58,000
E 60,000
E 62,000
E 64,000
N 76,000
N 74,000
N 72,000
N
REFERENCE
TOPOGRAPHIC MAP OF SEC. 2, T16N, R16W, N.M.P.W. & VICINITY PROVIDED BY UNITED NUCLEAR CORPORATION, GALLUP, NEW MEXICO. DATED: 8-1-96. SCALE: 1" = 400'
LEGEND:
803 EXTRACTION WELL, LOCATION AND DESIGNATION
627 MONITORING WELL (WATER QUALITY AND WATER LEVELS), LOCATION AND DESIGNATION
804 MONITORING WELL (WATER LEVELS ONLY), LOCATION AND DESIGNATION
INDICATES APPROXIMATE LIMITS OF TAILINGS UNDERLYING RECLAIMED AREA
WATER LEVEL MONITORING ONLY
WATER LEVEL AND WATER QUALITY MONITORING
SOUTHWEST ALLUVIUM WELLS DELETED FROM MONITTORING PROGRAM
PROPERTY BOUNDARY
PIPELINE ARROYO
NORTH CELL
CENTRAL CELL
RECLAIMED TAILINGS AREA
BORROW PIT No. 2 (RECLAIMED)
EVAPORATION PONDS
SOUTH CELL
SOUTHWEST ALLUVIUM REMEDIAL ACTION TARGET AREA
NOTES:
1. EXTRACTION WELL 808 WAS INSTALLED AND BEGAN OPERATING IN JUNE 1991. THE WELL WAS ADDED TO THE SOUTHWEST ALLUVIUM SYSTEM AS REQUIRED BY THE NRC AND EPA IN THEIR COMMENTS TO THE 1990 ANNUAL REVIEW.
SCALE
800 0 800 FEET
C37
FIGURE 1
SOUTHWEST ALLUVIUM PROPOSED REVISED MONITORING WELL LOCATIONS
PREPARED FOR:
UNC MINING AND MILLING
GALLUP, NEW MEXICO
EARTH TECH
1 01/13/00 ISSUED FOR 2ND REVISED MONITORING WELL LETTER EMH
No. DATE ISSUE / REVISION DWN. BY CK'D BY AP'D BY
FILE NAME L:\work\32114\cad\autocad\B1115.dwg emh 1/7/00 ref base:B1057

TABLE

TABLE A.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 2002

General Notes:

1. NRC standard as listed in License Condition 30, Part B.
2. EPA standard as listed in Table 2, "Contaminant-Specific Groundwater ARARs" of the ROD (EPA, 1988).
3. Standards for TDS, sulfate and nitrate changed to reflect revised standards recommended in the NRC's 1996 evaluation of background water quality and documented in the January 6, 1998 letter from NMED to EPA.
4. NA - Not applicable.
5. "-" (hyphen) indicates that the concentration is less than the laboratory reporting limits. A hyphen for combined Ra-226 and Ra-228 indicates that at least one of these constituents was less than the laboratory reporting limits, which are 0.2 and 1.0 pCi/L, respectively.
6. All values that exceed the NRC and/or EPA standards are shaded.
7. Gross alpha value excludes contribution from radon and uranium.
8. "*" (Asterisk) indicates a Point of Compliance well.
9. Reporting limit for bicarbonate changed from 0.0 mg/L to 0.1 mg/L in fourth quarter 1997.
10. Reporting limit for cadmium changed from 0.01 mg/L to 0.005 mg/L after fourth quarter 1997. The analytical method changed from EPA 200.7 (ICP) to 200.8 (ICP.MS).

Specific Notes:

Well 801 is monitored for water level only beginning in 2nd quarter 2000.
Well 803 was not sampled in 3rd quarter 1999.
Well EPA 22A contained insufficient water for sampling beginning 4th quarter 1997.
Well EPA 27 contained insufficient water for sampling beginning 4th quarter 1997.
Well GW 4 contained insufficient water for sampling, 1st and 3rd quarters 1996, and 3rd Quarter 1999.
Well 29 A contained insufficient water for sampling, 1st quarter 1995.
Well 639 contained insufficient water for sampling, 1st quarter 1995.
Well 642 contained insufficient water for sampling, 4th quarter 1995.
Well 644 contained insufficient water for sampling, 1st quarter 1993.
Well 645 contained insufficient water for sampling, 1st quarter 1991.

The following changes to the revised monitoring program were implemented for the Natural Attenuation test beginning January 2001:

Well 801 is monitored for water level and water quality .
Pumping wells 802, 803, and 808 were temporarily shut off and are monitored for water level and water quality

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
EPA Standard		NA	NA	NA	4,800	NA	NA	NA	NA	NA	2,125	250	NA	190	NA
0509 D	7/19/1989	6,916.60	6.4	7.07	4,652	819	290	198	10	1,525	2,017	176	0.06	50	-0.001
0509 D	10/12/1989	6,915.80	6.4	6.98	4,860	854	332	201	13.5	1,703	2,053	197	0.13	58	-0.001
0509 D	1/4/1990	6,915.30	6.1	6.54	4,986	833	403	214	10.7	1,745	2,024	202	0.1	43	-0.001
0509 D	4/3/1990	6,914.30	6.2	6.7	5,192	794	411	210	11.2	1,877	1,996	220	0.1	39	-0.001
0509 D	7/3/1990	6,913.40	6.3	6.74	5,278	909	348	203	12	1,898	2,026	209	-0.05	53.4	-0.001
0509 D	10/3/1990	6,912.60	6.2	7.24	5,373	847	358	252	12.2	1,819	2,118	221	-0.05	38	-0.001
0509 D	1/15/1991	6,908.00	6.3	7.15	5,428	851	379	273	15.1	1,463	2,355	226	0.05	56.4	-0.001
0509 D	4/9/1991	6,907.50	6.6	7.25	4,208	923	292	192	9.2	1,218	1,958	178	0.05	37	-0.001
0509 D	7/17/1991	6,906.80	6.3	7.35	5,554	905	365	225	11	1,826	2,303	237	0.07	56.8	-0.001
0509 D	10/15/1991	6,906.20	6.2	6.97	5,616	917	432	253	12.3	1,813	2,407	239	-0.05	22.5	-0.001
0509 D	1/15/1992	6,905.50	6.1	7.16	4,832	782	378	228	10.2	1,206	2,226	215	-0.05	42.3	-0.001
0509 D	4/8/1992	6,904.80	6.1	7.41	5,122	822	437	258	11.6	1,763	2,392	227	-0.05	33.3	-0.001
0509 D	7/7/1992	6,904.00	6	7.8	5,151	791	413	319	16.1	1,253	2,379	182	0.15	55.6	-0.001
0509 D	10/6/1992	6,903.40	6.2	8.15	5,913	913	451	293	12.1	1,946	2,358	230	-0.05	62.5	-0.001
0509 D	1/6/1993	6,902.90	6.3	7.26	5,281	453	995	156	8	2,013	2,878	262	0.81	84	-0.001
0509 D	4/7/1993	6,902.30	6.3	7	5,254	786	389	319	10.5	1,797	2,393	251	0.06	51.6	-0.001
0509 D	7/14/1993	6,901.30	6.3	7.04	5,055	810	402	283	11.4	1,961	2,101	257	-0.05	47.4	-0.001
0509 D	10/6/1993	6,900.60	6.5	7	5,090	830	424	271	11.3	1,787	2,476	231	-0.05	56.9	-0.001
0509 D	1/6/1994	6,900.20	6.5	6.83	5,480	814	438	293	10.6	1,726	2,583	240	0.16	39.6	-0.001
0509 D	4/12/1994	6,899.50	6.5	6.75	5,766	780	452	277	11.3	1,660	2,729	256	0.51	59.3	-0.001
0509 D	7/21/1994	6,898.90	6.4	7.34	6,216	918	487	295	11.7	1,817	3,043	246	0.39	54.1	-0.001
0509 D	10/5/1994	6,898.60	6.2	7.59	6,177	901	522	319	12.8	1,800	2,749	259	0.93	54.8	-0.001
0509 D	1/5/1995	6,898.00	6.4	7.12	6,296	880	542	298	14	1,898	2,693	271	1.05	49.7	-0.001
0509 D	4/5/1995	6,897.30	6.5	6.92	6,165	814	494	276	12	1,856	2,766	302	1.63	63	-0.001
0509 D	7/6/1995	6,896.60	6.4	7.6	6,186	835	510	300	13.5	1,841	2,602	299	1.54	46.5	-0.001
0509 D	10/3/1995	6,896.20	6.3	7.41	6,534	820	545	296	13.6	1,928	2,825	292	2.22	50.5	-0.001
0509 D	1/3/1996	6,895.70	6.5	6.96	5,314	760	490	287	13.3	1,903	2,229	227	2.22	50.4	-0.001
0509 D	4/2/1996	6,895.10	6.5	7.67	6,804	800	610	324	15	1,979	3,030	342	3.86	53.6	-0.001
0509 D	7/7/1996	6,890.10	6.2	7.04	6,283	805	495	300	14.7	1,769	2,580	255	2.45	44.5	-0.001
0509 D	10/1/1996	6,889.60	6.4	6.8	6,440	818	578	308	15.2	1,900	2,795	297	3.97	86.1	-0.001
0509 D	1/22/1997	6,889.20	6.3	7.21	6,140	820	545	277	14.4	1,900	2,789	337	3.56	43.2	-0.001
0509 D	4/8/1997	6,888.50	6.5	7.64	6,430	825	581	328	15.7	1,910	2,869	345	5.09	48.4	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0509 D	7/19/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.29	-0.1	-0.05	-0.001	-0.1	0.111	2.1	6.9	2.8	6.8
0509 D	10/12/1989	0.12	0.001	-0.05	-0.01	-0.01	-0.05	0.39	-0.1	-0.05	0.001	-0.1	0.105	- 1.8	-0.2	2.3	1.2
0509 D	1/4/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.38	-0.1	-0.05	-0.001	-0.1	0.107	- 1.9	-0.2	3.4	2.5
0509 D	4/3/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.43	-0.1	-0.05	-0.001	-0.1	0.106	- 1.7	-0.2	-1	1.4
0509 D	7/3/1990	-0.1	-0.001	-0.05	-0.01	0.02	-0.05	0.48	-0.1	-0.05	-0.001	-0.1	0.126	- 1.4	-0.2	-1	-1
0509 D	10/3/1990	-0.1	-0.001	-0.05	-0.01	0.02	-0.05	0.55	-0.1	-0.05	0.002	-0.1	0.074	- 1.2	-0.2	1.9	-1
0509 D	1/15/1991	-0.1	-0.001	-0.01	0.01	-0.01	-0.05	0.44	-0.1	-0.05	-0.001	-0.1	0.1202	- 1.8	1	-1	-1
0509 D	4/9/1991	-0.1	-0.001	-0.01	0.02	-0.01	-0.05	0.91	-0.1	-0.05	0.001	-0.1	0.1274	- 1.5	-0.2	2.9	-1
0509 D	7/17/1991	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.46	-0.1	-0.05	-0.001	-0.1	0.136	- 1.4	-0.2	-1	-1
0509 D	10/15/1991	-0.1	0.001	-0.01	-0.01	0.01	-0.05	0.5	-0.1	-0.05	0.001	-0.1	0.132	8.1	-0.2	-1	-1
0509 D	1/15/1992	0.26	-0.001	-0.01	-0.01	-0.01	-0.05	0.7	-0.1	-0.05	0.002	-0.1	0.22	- 1.2	-0.2	-1	-1
0509 D	4/8/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.61	-0.1	-0.05	0.004	-0.1	0.124	- 1.3	-0.2	1.9	-1
0509 D	7/7/1992	0.12	-0.001	-0.01	-0.01	-0.01	0.07	0.72	-0.1	-0.05	0.002	-0.1	0.12	- 2.0	-0.2	-1	1.2
0509 D	10/6/1992	0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.66	-0.1	-0.05	0.005	-0.1	0.119	2.9	-0.2	2.3	-1
0509 D	1/6/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.86	-0.1	-0.05	0.005	-0.1	0.003	6.4	-0.2	-1	1.7
0509 D	4/7/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.68	-0.1	-0.05	-0.001	-0.1	0.142	2.2	-0.2	2.9	-1
0509 D	7/14/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.74	-0.1	-0.05	-0.001	-0.1	0.082	2.5	-0.2	-1	-1
0509 D	10/6/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.75	-0.1	-0.05	-0.001	-0.1	0.043	- 1.9	-0.2	-1	-1
0509 D	1/6/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.81	-0.1	-0.05	-0.001	-0.1	0.081	- 1.4	-0.2	1.1	-1
0509 D	4/12/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.81	-0.1	-0.05	-0.001	-0.1	0.082	- 1.2	-0.2	-1	-1
0509 D	7/21/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.88	-0.1	-0.05	0.004	-0.1	0.075	5.1	-0.2	1.2	5.5
0509 D	10/5/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.88	-0.1	-0.05	-0.001	-0.1	0.084	2.3	-0.2	2.7	3.4
0509 D	1/5/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.85	-0.1	-0.05	-0.001	-0.1	0.084	2.2	-0.2	-1	3.2
0509 D	4/5/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.44	-0.1	-0.05	-0.001	-0.1	0.084	1.8	-0.2	-1	2.8
0509 D	7/6/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.91	-0.1	-0.05	0.001	-0.1	0.0816	- 1.2	0.4	-1	-1
0509 D	10/3/1995	-0.1	0.003	-0.01	-0.01	-0.01	-0.05	0.82	-0.1	-0.05	0.002	-0.1	0.084	- 1.8	-0.2	-1	1.7
0509 D	1/3/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.79	-0.1	-0.05	0.002	-0.1	0.09	- 1.4	-0.2	1.5	2
0509 D	4/2/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.86	-0.1	-0.05	-0.001	-0.1	0.101	- 1.2	-0.2	-1	-1
0509 D	7/7/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.97	-0.1	-0.05	-0.001	-0.1	0.143	- 1.5	-0.2	-1	-1
0509 D	10/1/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.9	-0.1	-0.05	0.007	-0.1	0.088	- 1.6	-0.2	-1	-1
0509 D	1/22/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.85	-0.1	-0.05	-0.001	-0.1	0.087	- 1.2	-0.2	-1	-1
0509 D	4/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.97	-0.1	-0.05	0.028	-0.1	0.099	- 1.5	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
EPA Standard		NA	NA	NA	4,800	NA	NA	NA	NA	NA	2,125	250	NA	190	NA
0509 D	7/8/1997	6,888.00	6.8	7.61	6,640	827	599	293	16.1	1,900	2,650	337	6.19	44.8	-0.001
0509 D	10/7/1997	6,887.80	6.2	7.42	6,530	807	584	302	16.2	1,920	2,850	350	6.7	44.5	-0.001
0509 D	1/16/1998	6,887.20	6.6	7.75	6,640	768	602	319	17.3	1,930	3,000	343	9.43	47.3	-0.001
0509 D	4/7/1998	6,887.00	6.4	7.24	6,390	805	610	310	16.2	1,910	2,950	274	8.49	46	-0.001
0509 D	7/7/1998	6,886.60	6.7	7.64	6,320	800	548	305	16.1	1,890	2,500	322	7.32	42.3	-0.001
0509 D	10/6/1998	6,886.20	6.6	7.78	6,960	815	689	353	19.9	1,910	3,050	312	13.8	44.4	-0.001
0509 D	1/5/1999	6,885.70	6.6	7.76	6,830	761	609	289	17.1	1,970	3,100	317	12.9	41.1	-0.001
0509 D	4/6/1999	6,885.40	6.5	7.6	3,780	805	630	289	17.6	1,950	2,830	345	13.1	9.53	-0.001
0509 D	7/13/1999	6,884.84	6.5	7.72	6,620	762	644	314	25.1	1,540	3,000	312	17.6	36.6	-0.001
0509 D	10/5/1999	6,884.60	6.56	7.4	6,290	847	664	307	18.6	1,990	3,070	317	0.05	35.4	-0.001
0509 D	1/4/2000	6,884.20	6.7	7.59	6,090	798	529	232	17.5	1,980	2,520	278	11.7	36.6	-0.001
0509 D	5/3/2000	6,883.70	6.3	7.12	4,990	859	337	241	13.2	2,010	1,570	293	0.6	32.7	0.0019
0509 D	7/12/2000	6,883.30	6.31	7.18	4,920	866	306	228	10.3	2,110	1,380	324	0.24	31.3	-0.001
0509 D	10/3/2000	6,883.10	6.21	7.14	5,090	893	372	240	13.5	2,050	1,990	350	1.9	31.2	-0.001
0509 D	1/8/2001	6,882.70	6.46	7.47	5,010	924	331	220	11.1	2,200	1,610	317	0.94	30.6	-0.001
0509 D	2/5/2001	6,882.35	6.5	7.03	5,090	1,000	384	265	13.5	2,090	1,860	365	1.75	29.5	-0.001
0509 D	3/5/2001	6,882.10	6.65	7.41	5,110	901	347	310	13.9	2,100	1,850	279	0.91	28.4	-0.001
0509 D	4/3/2001	6,882.30	6.42	6.76	5,120	984	366	211	11.8	2,080	1,800	311	0.82	31.8	-0.001
0509 D	5/7/2001	6,881.90	6.46	7.01	5,240	864	338	221	12.5	2,060	1,700	322	1.56	27.3	-0.001
0509 D	6/4/2001	6,882.10	6.46	6.97	4,860	848	336	232	12.7	2,070	1,760	318	1.92	30.2	-0.001
0509 D	7/9/2001	6,881.80	6.36	6.84	5,210	956	369	293	12.6	2,180	1,730	326	0.8	29.2	-0.001
0509 D	8/6/2001	6,881.60	6.36	7.3	5,210	890	340	230	13	2,130	1,500	370	0.61	26.6	-0.001
0509 D	9/10/2001	6,881.40	6.38	7.2	5,130	940	340	246	11.4	2,210	1,600	297	0.42	26	-0.001
0509 D	10/1/2001	6,881.35	6.43	7.2	5,190	920	320	234	12.1	2,250	1,570	411	0.37	25	-0.001
0509 D	11/5/2001	6,881.30	6.47	7.4	5,300	930	348	258	13.6	2,300	1,770	401	1.37	26.4	-0.001
0509 D	12/3/2001	6,881.20	6.44	7.3	5,370	875	338	237	12.3	2,280	1,590	357	2.14	29	-0.001
0509 D	1/7/2002	6,881.00	6.41	6.8	5,220	1,040	354	229	11.8	2,290	1,840	383	1.1	23	-0.001
0509 D	2/4/2002	6,880.80	6.48	7.1	5,290	994	358	274	13.1	2,170	1,760	362	1.11	23.9	-0.001
0509 D	3/4/2002	6,880.70	6.45	6.9	5,220	934	342	262	12.6	2,240	1,790	376	0.9	24.4	-0.001
0509 D	4/1/2002	6,880.68	6.36	7.69	5,260	974	337	262	13.3	2,250	1,750	380	0.4	23.5	-0.001
0509 D	5/6/2002	6,880.55	6.38	7.74	5,390	916	361	279	14.5	2,120	1,850	344	2.76	27.3	-0.001
0509 D	6/3/2002	6,880.50	6.36	7.87	5,200	949	331	244	11.1	2,240	1,500	318	0.32	24.5	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0509 D	7/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.84	-0.1	-0.05	-0.001	-0.1	0.094	- 2.6	-0.2	-1	-1
0509 D	10/7/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.21	-0.1	-0.05	-0.001	-0.1	0.089	- 1.2	-0.2	-1	1
0509 D	1/16/1998	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.2	-0.1	-0.05	-0.001	-0.1	0.102	- 1.7	-0.2	-1	2.5
0509 D	4/7/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.8	-0.1	-0.05	-0.001	-0.1	0.101	- 1.6	-0.2	-1	-1
0509 D	7/7/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.98	-0.1	-0.05	-0.001	-0.1	0.115	- 1.6	-0.2	-1	-1
0509 D	10/6/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.83	-0.1	-0.05	-0.001	-0.1	0.105	- 1.6	-0.2	-1	-1
0509 D	1/5/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.78	-0.1	-0.05	-0.001	-0.1	0.103	- 2.0	-0.2	-1	-1
0509 D	4/6/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.89	-0.1	-0.05	-0.001	-0.1	0.104	- 2.1	-0.2	-1	-1
0509 D	7/13/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.56	-0.1	-0.05	0.003	-0.1	0.104	- 2.9	-0.2	-1	9.3
0509 D	10/5/1999	-0.1	-0.001	-0.01	0.008	-0.01	-0.05	1.05	-0.1	-0.05	-0.001	-0.1	0.108	- 1.5	-0.2	-1	-1
0509 D	1/4/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.09	-0.1	0.05	0.001	-0.1	0.134	- 1.5	-0.2	-1	-1
0509 D	5/3/2000	0.2	-0.001	-0.01	0.005	-0.01	-0.05	1.6	-0.1	-0.05	-0.001	-0.1	0.176	- 2.8	-0.2	-1	-1
0509 D	7/12/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.89	-0.1	-0.05	-0.001	-0.1	0.226	3.4	-0.2	-1	-1
0509 D	10/3/2000	-0.1	-0.001	-0.01	-0.005	-0.01	0.07	2.05	-0.1	-0.05	-0.001	-0.1	0.184	- 1.7	-0.2	-1	-1
0509 D	1/8/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.08	-0.1	-0.05	-0.001	-0.1	0.211	- 1.5	-0.2	-1	-1
0509 D	2/5/2001	0.2	0.001	-0.01	-0.005	-0.01	-0.05	2.2	-0.1	-0.05	-0.001	-0.1	0.197	- 1.6	-0.2	-1	-1
0509 D	3/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.51	-0.1	-0.05	0.001	-0.1	0.186	- 2.5	-0.2	-1	-1
0509 D	4/3/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.53	-0.1	-0.05	-0.001	-0.1	0.183	- 1.5	-0.2	-1	-1
0509 D	5/7/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.5	-0.1	-0.05	-0.001	-0.1	0.188	- 1.4	-0.2	-1	-1
0509 D	6/4/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.42	-0.1	-0.05	-0.001	-0.1	0.186	- 1.9	-0.2	-1	-1
0509 D	7/9/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.71	-0.1	-0.05	-0.001	-0.1	0.217	- 1.2	-0.2	-1	-1
0509 D	8/6/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.8	-0.1	-0.05	-0.001	-0.1	0.22	- 1.7	-0.2	-1	-1
0509 D	9/10/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.7	-0.1	-0.05	-0.001	-0.1	0.222	- 1.5	-0.2	-1	-1
0509 D	10/1/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.46	-0.1	-0.05	-0.001	-0.1	0.225	- 1.5	-0.2	-1	-1
0509 D	11/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.41	-0.1	-0.05	-0.001	-0.1	0.197	- 4.1	-0.2	-1	-1
0509 D	12/3/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.33	-0.1	-0.05	0.001	-0.1	0.252	- 1.2	-0.2	-1	-1
0509 D	1/7/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.49	-0.1	-0.05	-0.001	-0.1	0.206	- 2.2	-0.2	-1	-1
0509 D	2/4/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.41	-0.1	-0.05	-0.001	-0.1	0.189	- 1.4	-0.2	-1	-1
0509 D	3/4/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.91	-0.1	-0.05	-0.001	-0.1	0.228	- 1.2	-0.2	-1	-1
0509 D	4/1/2002	-0.1	-0.001	-0.01	0.007	-0.01	-0.05	2.95	-0.1	0.05	-0.001	-0.1	0.213	- 1.2	-0.2	-1	-1
0509 D	5/6/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.48	-0.1	-0.05	-0.001	-0.1	0.198	- 1.2	-0.2	-1	-1
0509 D	6/3/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.99	-0.1	0.05	-0.001	-0.1	0.192	- 2.9	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
0509 D	7/8/2002	6,880.17	6.57	7.83	5,470	925	381	306	13.4	2,160	1,900	308	4.08	25	-0.001
0509 D	10/7/2002	6,879.78	6.12	7.82	4,290	856	333	254	11.9	2,100	1,750	300	1.17	26.4	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0509 D	7/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.34	0.3	-0.05	-0.001	-0.1	0.229	- 1.3	-0.2	-1	-1
0509 D	10/7/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.47	-0.1	-0.05	-0.001	-0.1	0.159	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
0624	7/19/1989	6,860.40	7.3	7.64	4,637	565	412	226	4.1	378	2,479	108	0.06	116	-0.001
0624	10/16/1989	6,860.40	7.1	7.5	4,760	535	399	211	5	456	2,182	110	0.1	108	-0.001
0624	1/10/1990	6,860.10	7.2	7.32	4,642	562	363	208	3.61	473	2,370	110	0.05	118	-0.001
0624	4/5/1990	6,860.40	7.1	7.58	4,722	559	390	206	3.8	537	2,311	115	0.12	130	-0.001
0624	7/3/1990	6,859.70	7.1	7.48	4,839	553	371	195	3.9	512	2,306	113	-0.05	127	-0.001
0624	10/3/1990	6,859.80	7	7.75	4,783	565	384	215	4	561	2,311	117	-0.05	82	-0.001
0624	1/15/1991	6,860.00	7.1	7.55	4,686	612	405	212	5.6	528	2,468	120	-0.05	117	-0.001
0624	4/2/1991	6,860.10	7.2	7.68	4,832	555	362	203	3.2	524	2,428	130	-0.05	132	-0.001
0624	7/17/1991	6,859.20	7.1	7.75	4,689	540	335	195	2.9	595	2,602	132	0.05	159	-0.001
0624	10/15/1991	6,858.80	6.9	7.54	4,640	609	373	186	2.5	549	2,327	118	-0.05	93.9	-0.001
0624	1/15/1992	6,858.50	6.9	7.57	4,267	525	348	197	2.8	539	2,296	113	-0.05	82	-0.001
0624	4/8/1992	6,858.30	6.9	7.73	4,279	581	371	208	3.5	597	2,276	118	-0.05	83.2	-0.001
0624	7/8/1992	6,857.90	6.8	7.43	4,323	581	360	254	4.3	432	2,259	125	0.08	106	-0.001
0624	10/6/1992	6,857.50	7	7.56	4,704	626	364	218	2.1	593	2,304	112	-0.05	120	-0.001
0624	1/7/1993	6,857.10	7	7.71	4,698	587	348	211	3.9	586	2,245	122	-0.05	105	-0.001
0624	4/7/1993	6,857.10	7	7.5	4,111	553	307	230	15.9	581	2,172	129	-0.05	107	-0.001
0624	7/14/1993	6,856.60	7	7.11	4,803	645	361	211	2.4	748	2,307	138	-0.05	106	-0.001
0624	10/7/1993	6,856.40	7.1	7.62	4,371	602	326	188	1.4	700	2,107	128	-0.05	117	-0.001
0624	1/6/1994	6,856.00	7.2	7.41	4,425	618	345	200	2.2	694	2,241	129	-0.05	89.4	-0.001
0624	4/12/1994	6,855.60	7.1	7.45	4,779	623	344	197	1.7	625	2,324	118	0.3	124	-0.001
0624	7/21/1994	6,855.20	7.1	7.54	4,592	674	356	203	2	649	2,203	118	-0.05	115	-0.001
0624	10/5/1994	6,855.00	6.8	7.64	4,815	661	391	212	3.8	843	2,160	137	-0.05	97.3	-0.001
0624	1/4/1995	6,854.70	6.9	7.63	4,803	665	375	202	3.5	814	2,303	137	0.27	92.8	-0.001
0624	4/5/1995	6,854.40	7	7.44	4,661	630	342	195	3	475	2,383	155	0.27	101	-0.001
0624	7/6/1995	6,854.40	7.1	7.63	4,358	655	405	207	3.9	766	2,201	157	0.1	93.5	-0.001
0624	10/3/1995	6,853.80	7	7.83	4,950	655	415	197	3.8	972	2,247	154	0.18	94.3	-0.001
0624	1/3/1996	6,853.60	7	7.43	4,553	610	392	203	4.8	1,182	1,879	123	-0.05	97	-0.001
0624	4/2/1996	6,853.20	6.8	7.92	4,942	655	430	204	4.7	1,048	2,310	150	-0.05	100	-0.001
0624	7/7/1996	6,852.90	6.6	7.45	4,946	645	405	206	4.6	1,158	2,190	145	0.07	84.4	-0.001
0624	10/1/1996	6,852.90	6.8	7.25	5,050	666	430	204	4.6	1,180	2,179	161	-0.05	93	-0.001
0624	1/22/1997	6,852.60	6.7	7.69	4,920	675	440	202	4.8	1,070	2,146	161	-0.05	84.6	-0.001
0624	4/8/1997	6,852.40	6.9	7.89	5,000	683	427	195	3.8	1,030	2,227	169	0.06	103	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0624	7/19/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	0.003	-0.1	0.0217	- 1.6	6.9	-1	6
0624	10/16/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.01	-0.1	-0.05	0.003	-0.1	0.021	- 2.6	0.5	-1	1.8
0624	1/10/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.01	-0.1	-0.05	0.002	-0.1	0.022	1.4	-0.2	-1	0.8
0624	4/5/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.03	-0.1	-0.05	0.003	-0.1	0.02	- 1.4	-0.2	1.1	0.9
0624	7/3/1990	0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	0.001	-0.1	0.0242	- 1.7	-0.2	-1	-1
0624	10/3/1990	-0.1	0.001	-0.05	-0.01	0.02	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.022	- 2.0	-0.2	-1	-1
0624	1/15/1991	-0.1	-0.001	-0.01	-0.01	0.01	-0.05	0.01	-0.1	-0.05	0.001	-0.1	0.0268	- 1.4	-0.2	-1	-1
0624	4/2/1991	0.13	-0.001	-0.01	-0.01	0.02	-0.05	-0.01	-0.1	-0.05	0.001	-0.1	0.038	1.9	-0.2	-1	-1
0624	7/17/1991	0.1	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	0.002	-0.1	0.034	- 1.2	-0.2	-1	-1
0624	10/15/1991	0.1	0.001	-0.01	-0.01	0.01	-0.05	0.01	-0.1	-0.05	0.002	-0.1	0.034	2.2	-0.2	-1	-1
0624	1/15/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.1	-0.05	0.002	-0.1	0.029	- 1.2	-0.2	-1	-1
0624	4/8/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	0.002	-0.1	0.034	- 1.2	-0.2	-1	-1
0624	7/8/1992	-0.1	-0.001	-0.01	-0.01	-0.01	0.07	-0.01	-0.1	-0.05	0.002	-0.1	0.03	- 1.2	-0.2	-1	-1
0624	10/6/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	0.006	-0.1	0.048	- 1.2	-0.2	-1	-1
0624	1/7/1993	-0.1	-0.001	-0.01	-0.01	0.02	-0.05	0.02	-0.1	-0.05	0.008	-0.1	0.043	- 4.4	-0.2	-1	-1
0624	4/7/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	0.002	-0.1	0.033	- 5.6	-0.2	1.4	4.8
0624	7/14/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	0.003	-0.1	0.019	- 1.2	-0.2	2.8	-1
0624	10/7/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	0.003	-0.1	0.023	- 1.6	-0.2	4.8	-1
0624	1/6/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.027	6.4	-0.2	-1	9.9
0624	4/12/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.1	-0.05	0.001	-0.1	0.043	9.9	-0.2	-1	11.3
0624	7/21/1994	-0.1	0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	-0.001	-0.1	0.029	- 1.3	-0.2	-1	1.8
0624	10/5/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	-0.001	-0.1	0.035	- 1.2	-0.2	-1	-1
0624	1/4/1995	-0.1	-0.001	-0.01	-0.01	-0.01	0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.033	1.9	-0.2	-1	2.7
0624	4/5/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.037	5.5	-0.2	2.1	6.5
0624	7/6/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.1	-0.05	0.002	-0.1	0.0405	- 1.2	-0.2	-1	-1
0624	10/3/1995	-0.1	0.002	-0.01	-0.01	-0.01	-0.05	0.01	-0.1	-0.05	0.013	-0.1	0.0331	- 1.3	-0.2	-1	-1
0624	1/3/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.1	-0.05	0.007	-0.1	0.032	1.9	0.6	-1	-1
0624	4/2/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.033	- 1.2	-0.2	-1	-1
0624	7/7/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.043	- 1.3	-0.2	-1	-1
0624	10/1/1996	-0.1	0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	0.003	-0.1	0.032	- 1.2	-0.2	-1	-1
0624	1/22/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.1	-0.05	-0.001	-0.1	0.027	- 1.6	-0.2	-1	-1
0624	4/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	0.014	-0.1	0.036	- 1.8	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
EPA Standard		NA	NA	NA	4,800	NA	NA	NA	NA	NA	2,125	250	NA	190	NA
0624	7/8/1997	6,852.00	7.1	7.54	5,040	680	444	186	4.6	1,060	2,260	181	-0.05	92.6	-0.001
0624	10/7/1997	6,852.50	6.5	7.66	5,140	712	459	179	3.51	1,310	2,160	166	-0.05	86.3	-0.001
0624	1/16/1998	6,852.40	7	7.78	5,140	679	436	208	5.6	1,300	2,350	194	0.16	101	-0.001
0624	4/7/1998	6,851.90	6.9	7.6	5,190	691	442	197	4.4	1,180	2,400	153	-0.05	98.7	-0.001
0624	7/7/1998	6,851.70	7.2	7.79	5,050	679	435	206	4.4	1,080	2,400	174	-0.05	92.2	-0.001
0624	10/6/1998	6,851.30	7.01	7.88	5,210	708	464	216	6.2	1,230	2,220	175	-0.05	101	-0.001
0624	1/5/1999	6,851.20	6.8	7.85	5,140	659	423	188	5.3	1,160	2,030	172	0.18	94.2	-0.001
0624	4/6/1999	6,851.10	6.8	7.89	5,150	692	451	188	5.4	1,230	2,000	180	0.08	94.5	-0.001
0624	7/13/1999	6,850.77	6.7	7.85	5,020	646	452	191	10.8	1,070	2,070	181	0.18	88.7	-0.001
0624	10/5/1999	6,851.80	6.78	7.59	4,900	618	411	199	6.1	1,350	1,860	179	0.09	88.3	-0.001
0624	1/4/2000	6,851.20	6.8	7.76	4,840	649	429	170	6.9	1,160	2,080	155	-0.05	49.2	-0.001
0624	5/9/2000	6,850.60	6.5	7.67	5,130	652	438	207	6.3	1,470	1,970	177	-0.05	93.6	-0.001
0624	7/17/2000	6,850.40	6.55	7.62	5,170	697	456	194	6.46	1,480	1,790	184	-0.05	85.1	-0.001
0624	10/9/2000	6,850.25	6.7	7.59	5,090	606	412	185	7.6	1,440	1,530	147	0.1	98.5	-0.001
0624	1/8/2001	6,850.10	6.65	7.4	5,100	707	464	173	6.9	1,480	1,810	177	-0.05	104	-0.001
0624	2/5/2001	6,850.10	6.72	7.31	5,110	801	510	171	7.6	1,480	2,320	170	0.21	93.9	-0.001
0624	3/5/2001	6,850.10	7.03	7.47	4,740	690	457	148	8.1	1,450	2,190	154	-0.05	101	-0.001
0624	4/10/2001	6,850.10	7.24	7.33	4,910	791	497	238	7.3	1,470	2,250	176	-0.05	103	-0.001
0624	5/8/2001	6,849.90	6.62	7.54	5,150	677	444	181	6.7	1,450	1,880	187	0.08	99.3	-0.001
0624	6/5/2001	6,849.90	6.62	7.02	5,050	683	454	182	6.5	1,470	2,000	182	0.11	101	-0.001
0624	7/10/2001	6,849.90	6.62	7.4	5,290	726	488	198	6.1	1,480	2,050	172	-0.05	101	-0.001
0624	8/7/2001	6,849.87	6.59	7.4	5,230	660	450	200	6	1,470	1,900	180	0.05	88	-0.001
0624	9/11/2001	6,850.30	6.52	7.3	5,200	670	450	191	6.8	1,490	1,930	217	0.05	118	-0.001
0624	10/2/2001	6,850.30	6.65	7.8	5,210	660	450	192	7	1,500	1,850	240	-0.05	100	-0.001
0624	11/6/2001	6,850.15	6.6	7.2	5,210	731	475	196	7.4	1,490	2,100	232	0.05	104	-0.001
0624	12/4/2001	6,850.20	6.62	7.3	5,250	673	433	172	6.4	1,500	1,750	197	-0.05	101	-0.001
0624	1/8/2002	6,850.10	6.95	7.3	5,190	787	481	201	7	1,490	2,270	208	-0.05	91.5	-0.001
0624	2/5/2002	6,850.10	6.78	7.3	5,190	762	461	193	7.8	1,470	2,120	219	0.06	90.5	-0.001
0624	3/5/2002	6,850.10	6.61	7.2	5,170	726	463	228	6.8	1,530	2,190	207	0.06	95.1	-0.001
0624	4/2/2002	6,850.16	6.54	7.45	5,270	748	464	225	8.3	1,500	2,180	203	0.06	95.5	-0.001
0624	5/7/2002	6,850.08	6.59	7.61	5,220	719	448	226	7.4	1,480	2,100	186	0.13	104	-0.001
0624	6/4/2002	6,850.10	6.52	7.66	5,220	720	450	201	6.4	1,480	1,830	181	-0.05	96.3	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0624	7/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.034	- 1.2	-0.2	-1	-1
0624	10/7/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.12	-0.1	-0.05	-0.001	-0.1	0.03	- 1.2	-0.2	-1	-1
0624	1/16/1998	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.11	-0.1	-0.05	-0.001	-0.1	0.0379	- 1.2	-0.2	-1	-1
0624	4/7/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.039	- 1.2	-0.2	-1	-1
0624	7/7/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.0409	- 1.7	-0.2	-1	-1
0624	10/6/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	0.001	-0.1	0.0409	- 1.7	-0.2	-1	-1
0624	1/5/1999	-0.1	-0.001	-0.01	0.006	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.0395	- 1.2	-0.2	-1	-1
0624	4/6/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.0366	- 1.2	-0.2	-1	-1
0624	7/13/1999	-0.1	-0.001	-0.01	-0.005	0.02	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.0339	- 1.2	-0.2	-1	-1
0624	10/5/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.0366	- 1.5	-0.2	-1	-1
0624	1/4/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.05	-0.1	-0.05	0.001	-0.1	0.0443	- 1.2	-0.2	-1	-1
0624	5/9/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.0348	- 2.2	-0.2	6.4	-1
0624	7/17/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.0325	- 1.7	-0.2	-1	-1
0624	10/9/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.01	-0.1	-0.05	-0.001	-0.1	0.031	- 1.2	-0.2	-1	-1
0624	1/8/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.032	- 1.4	-0.2	-1	-1
0624	2/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.033	- 1.3	-0.2	-1	-1
0624	3/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.0327	- 4.2	-0.2	-1	-1
0624	4/10/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.031	- 1.3	-0.2	-1	-1
0624	5/8/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.034	- 1.2	-0.2	-1	-1
0624	6/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.05	-0.1	-0.05	0.009	-0.1	0.065	- 1.2	-0.2	-1	-1
0624	7/10/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.0329	- 1.2	-0.2	-1	-1
0624	8/7/2001	0.13	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.04	2.7	-0.2	-1	-1
0624	9/11/2001	0.11	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.03	- 3.1	-0.2	-1	-1
0624	10/2/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.0319	- 1.2	-0.2	-1	-1
0624	11/6/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.0288	- 1.2	-0.2	-1	-1
0624	12/4/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.0295	- 1.2	-0.2	-1	-1
0624	1/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.0301	- 1.4	-0.2	-1	-1
0624	2/5/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.0212	2.4	-0.2	-1	-1
0624	3/5/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.0351	- 1.2	-0.2	-1	-1
0624	4/2/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.04	-0.1	-0.05	-0.001	-0.1	0.0326	- 1.2	-0.2	-1	-1
0624	5/7/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.0355	- 1.5	-0.2	-1	-1
0624	6/4/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.0333	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
0624	7/9/2002	6,849.95	6.67	7.42	5,300	713	463	223	7.3	1,500	2,150	200	0.05	92.4	-0.001
0624	10/8/2002	6,849.90	6.67	7.25	5,150	659	425	208	6.2	1,490	1,810	173	0.08	97.1	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0624	7/9/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.036	- 1.3	-0.2	-1	-1
0624	10/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.0262	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
0624Dup	3/5/2002	6,850.05	6.57	7.5	5,130	714	456	223	6.6	1,530	2,170	193	0.06	97.2	-0.001
0624Dup	4/2/2002	6,850.13	6.53	7.48	5,210	741	459	220	8	1,500	2,130	206	0.05	95.7	-0.001
0624Dup	6/4/2002	6,850.06	6.51	7.68	5,210	711	444	208	6	1,480	1,850	174	0.08	92.1	-0.001
0624Dup	7/9/2002	6,849.93	6.59	7.41	5,320	709	460	225	7.8	1,500	2,110	201	0.05	91.4	-0.001
0624Dup	10/8/2002	6,849.85	6.47	7.4	5,160	663	427	207	6.1	1,480	1,800	167	0.06	96.6	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0624Dup	3/5/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.04	-0.1	-0.05	-0.001	-0.1	0.037	- 1.2	-0.2	-1	-1
0624Dup	4/2/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.0338	- 1.4	-0.2	-1	1.5
0624Dup	6/4/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.0314	- 1.2	-0.2	-1	-1
0624Dup	7/9/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.0363	- 1.4	-0.2	-1	-1
0624Dup	10/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.0265	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
EPA Standard		NA	NA	NA	4,800	NA	NA	NA	NA	NA	2,125	250	NA	190	NA
0627	7/20/1989	6,846.40	7.1	6.95	4,509	554	304	382	3.1	622	2,429	36.7	0.06	103	-0.001
0627	10/16/1989	6,846.80	6.9	7.36	4,512	539	290	359	3.8	659	2,151	36.6	0.12	112	-0.001
0627	1/4/1990	6,846.70	6.8	7.24	4,446	571	275	351	7.8	656	2,277	39.7	0.07	113	-0.001
0627	4/3/1990	6,846.40	6.8	7.32	4,492	590	290	352	3.2	698	2,168	40.1	0.09	90	-0.001
0627	7/2/1990	6,846.20	6.7	7.34	4,750	613	322	325	4.5	693	2,265	41.5	-0.05	109	-0.001
0627	10/2/1990	6,846.20	6.8	7.6	4,551	509	270	342	2.8	644	2,404	41.6	-0.05	78	-0.001
0627	1/15/1991	6,846.20	6.8	7.77	4,537	587	309	393	5.9	617	2,480	49	-0.05	118	-0.001
0627	4/2/1991	6,846.20	6.8	7.7	4,623	533	263	331	2.7	595	2,407	45.9	-0.05	94.8	-0.001
0627	7/16/1991	6,845.90	6.8	7.44	4,454	525	249	335	2.8	532	2,537	45.4	0.36	97.2	-0.001
0627	10/14/1991	6,845.60	6.7	7.37	4,539	448	221	342	2.7	622	2,161	55.7	-0.05	104	-0.001
0627	1/14/1992	6,845.40	6.6	7.12	4,614	490	246	342	2.8	619	2,317	54.7	-0.05	101	-0.001
0627	4/9/1992	6,845.10	6.6	7.91	4,671	543	283	424	3.2	605	2,346	52.3	-0.05	68.4	-0.001
0627	7/7/1992	6,844.90	6.5	8	4,811	585	280	468	4.2	588	2,403	59.2	0.13	108	-0.001
0627	10/7/1992	6,844.60	6.8	7.45	4,696	563	257	484	5	593	2,402	56.3	-0.05	125	-0.001
0627	1/7/1993	6,844.40	6.8	7.88	4,615	556	264	408	2.8	576	2,324	57.4	-0.05	116	-0.001
0627	4/7/1993	6,844.30	6.8	7.59	4,751	546	228	448	2.3	553	2,341	61	-0.05	100	-0.001
0627	7/14/1993	6,843.80	6.9	7.21	5,045	645	255	512	2.6	570	2,476	72.5	-0.05	99.3	-0.001
0627	10/7/1993	6,843.60	6.9	7.57	5,187	568	239	453	2.3	532	2,548	62.4	0.05	133	-0.001
0627	1/6/1994	6,843.40	6.9	7.51	4,941	563	246	474	2.6	512	2,693	63.1	-0.05	61	-0.001
0627	4/13/1994	6,843.20	7	7.15	4,787	564	242	486	2.6	510	2,428	58.5	0.12	107	-0.001
0627	7/21/1994	6,842.90	6.9	7.53	4,899	620	259	455	2.9	529	2,908	54.6	-0.05	108	-0.001
0627	10/5/1994	6,842.90	6.9	7.86	5,024	610	282	535	3.6	549	2,719	62.6	-0.05	137	-0.001
0627	1/5/1995	6,842.60	6.9	7.49	5,292	634	280	530	4.2	540	2,650	58.9	0.15	105	-0.001
0627	4/5/1995	6,842.50	6.9	7.22	5,324	540	275	505	3.9	542	2,682	66	0.24	125	-0.001
0627	7/6/1995	6,842.00	6.9	7.91	5,112	585	315	490	3.6	560	2,555	61	-0.05	90.5	-0.001
0627	10/3/1995	6,841.80	6.9	7.65	5,241	580	280	535	3.9	544	2,760	58	0.48	126	-0.001
0627	1/3/1996	6,841.70	7.1	7.52	5,293	640	300	531	3.6	542	2,995	60	-0.05	131	-0.001
0627	4/2/1996	6,841.50	7.1	8.06	5,230	570	287	530	3.6	558	2,740	65.1	-0.05	129	-0.001
0627	7/7/1996	6,841.20	6.8	7.56	5,403	585	280	570	4.1	534	2,725	64	0.13	113	-0.001
0627	10/1/1996	6,841.00	6.8	7.23	4,980	592	277	470	3.5	575	2,468	54	-0.05	119	-0.001
0627	1/22/1997	6,840.80	6.8	7.85	5,020	595	290	503	3.7	577	2,673	63.3	-0.05	121	-0.001
0627	4/8/1997	6,840.50	6.9	7.59	5,240	590	286	578	4.1	564	2,524	56.6	-0.05	153	-0.001

TAB A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0627	7/20/1989	-0.1	-0.001	-0.05	-0.01	0.02	-0.05	0.01	-0.1	-0.05	-0.001	-0.1	0.0143	- 1.9	2.5	2.2	2.7
0627	10/16/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.03	-0.1	-0.05	0.002	-0.1	0.0181	- 1.6	3.3	1.1	3.8
0627	1/4/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.014	- 3.0	-0.2	2.4	3.4
0627	4/3/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.06	-0.1	-0.05	0.001	-0.1	0.015	- 1.4	-0.2	-1	1.1
0627	7/2/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.05	-0.1	-0.05	-0.001	-0.1	0.0175	- 1.3	-0.2	1.9	-1
0627	10/2/1990	-0.1	-0.001	-0.05	-0.01	0.01	-0.05	0.05	-0.1	-0.05	-0.001	-0.1	0.014	- 1.2	-0.2	-1	-1
0627	1/15/1991	0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.0176	- 1.2	-0.2	-1	-1
0627	4/2/1991	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.049	4.8	-0.2	-1	1
0627	7/16/1991	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.014	- 3.0	-0.2	-1	-1
0627	10/14/1991	-0.1	0.001	-0.01	-0.01	0.01	-0.05	0.05	-0.1	-0.05	0.002	-0.1	0.02	- 1.7	-0.2	-1	-1
0627	1/14/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.07	-0.1	-0.05	0.002	-0.1	0.017	2.1	-0.2	-1	-1
0627	4/9/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.03	-0.1	-0.05	0.003	-0.1	0.019	- 3.1	-0.2	1.2	-1
0627	7/7/1992	-0.1	-0.001	-0.1	-0.01	-0.01	-0.05	0.05	-0.1	-0.05	0.001	-0.1	0.02	- 1.7	-0.2	-1	-1
0627	10/7/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.06	-0.1	-0.05	0.003	-0.1	0.025	2.8	-0.2	1.7	-1
0627	1/7/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.06	-0.1	-0.05	0.014	-0.1	0.018	2.0	-0.2	-1	-1
0627	4/7/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.08	-0.1	-0.05	0.004	-0.1	0.033	- 1.2	-0.2	1.2	-1
0627	7/14/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.08	-0.1	-0.05	0.018	-0.1	0.016	2.9	-0.2	-1	-1
0627	10/7/1993	-0.1	-0.001	-0.01	-0.01	0.02	-0.05	0.08	-0.1	-0.05	0.009	-0.1	0.012	- 1.6	-0.2	-1	-1
0627	1/6/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.08	-0.1	-0.05	0.003	-0.1	0.015	- 1.9	-0.2	-1	-1
0627	4/13/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.09	-0.1	-0.05	0.002	-0.1	0.015	- 1.8	-0.2	3.2	-1
0627	7/21/1994	-0.1	0.001	-0.01	-0.01	-0.01	-0.05	0.09	-0.1	-0.05	0.003	-0.1	0.017	3.2	-0.2	-1	4.6
0627	10/5/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.08	-0.1	-0.05	0.001	-0.1	0.016	- 1.4	-0.2	-1	-1
0627	1/5/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.09	-0.1	-0.05	-0.001	-0.1	0.016	- 1.3	-0.2	-1	-1
0627	4/5/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.07	-0.1	-0.05	-0.001	-0.1	0.016	- 2.2	-0.2	1.4	1.4
0627	7/6/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.07	-0.1	-0.05	0.003	-0.1	0.0205	- 1.8	0.3	-1	1.4
0627	10/3/1995	-0.1	0.001	-0.01	-0.01	-0.01	-0.05	0.09	-0.1	-0.05	0.019	-0.1	0.0168	- 1.2	-0.2	1.7	2
0627	1/3/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.07	-0.1	-0.05	0.001	-0.1	0.018	- 1.7	1.2	2.4	1.2
0627	4/2/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.07	-0.1	-0.05	-0.001	-0.1	0.019	- 1.5	-0.2	-1	-1
0627	7/7/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.13	-0.1	-0.05	-0.001	-0.1	0.024	- 1.3	-0.2	-1	-1
0627	10/1/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.09	-0.1	-0.05	0.002	-0.1	0.024	- 1.5	-0.2	-1	-1
0627	1/22/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.11	-0.1	-0.05	-0.001	-0.1	0.018	- 2.0	-0.2	-1	-1
0627	4/8/1997	-0.1	-0.001	-0.01	-0.01	0.01	-0.05	0.1	-0.1	-0.05	0.195	-0.1	0.02	- 1.9	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
EPA Standard		NA	NA	NA	4,800	NA	NA	NA	NA	NA	2,125	250	NA	190	NA
0627	7/8/1997	6,840.20	7.4	7.75	5,600	616	303	543	4.3	560	2,570	64.1	-0.05	190	-0.001
0627	10/7/1997	6,840.20	6.6	7.69	4,960	601	276	439	3.5	599	2,440	66	-0.05	122	-0.001
0627	1/16/1998	6,840.00	7.3	7.91	5,260	582	289	545	4.6	682	2,850	70.6	1.28	107	-0.001
0627	4/7/1998	6,840.20	6.9	7.74	5,200	621	294	508	3.9	590	2,400	54.6	-0.05	141	-0.001
0627	7/7/1998	6,840.00	7.2	7.8	5,210	598	288	529	4.3	588	2,500	59.6	0.05	133	-0.001
0627	10/6/1998	6,839.80	6.97	7.85	5,380	589	288	530	4.8	579	2,670	61.5	0.06	109	-0.001
0627	1/6/1999	6,839.50	7.7	8.02	5,340	566	284	509	4.8	586	2,740	60	0.17	142	-0.001
0627	4/6/1999	6,839.50	7.1	7.84	5,650	580	309	504	4.7	580	2,660	68	0.27	131	-0.001
0627	7/13/1999	6,839.22	7	8.21	5,320	579	308	498	10.6	594	2,620	67.7	0.17	126	-0.001
0627	10/5/1999	6,839.20	7.09	7.7	5,320	521	274	512	5.1	594	2,320	58.5	0.38	127	-0.001
0627	1/4/2000	6,839.10	7	8.1	5,150	530	283	425	7.3	597	2,430	57.2	0.14	144	-0.001
0627	5/10/2000	6,839.00	7	7.65	5,200	535	278	501	4.1	588	2,370	55.3	-0.05	144	-0.001
0627	7/18/2000	6,838.60	6.96	7.91	5,320	567	292	502	4.32	590	2,390	53.3	-0.05	149	-0.001
0627	10/10/2000	6,838.65	7.03	7.78	5,100	496	261	512	5.4	580	2,160	44.8	-0.05	150	-0.001
0627	1/9/2001	6,838.55	7.23	8.03	5,170	583	303	454	5	595	2,460	57.9	-0.05	160	-0.001
0627	2/6/2001	6,838.50	7.53	7.48	5,040	654	321	558	6.1	592	2,780	52.5	-0.05	158	-0.001
0627	3/6/2001	6,838.30	7.31	7.69	4,770	553	286	552	6.5	586	2,680	53	-0.05	156	-0.001
0627	4/10/2001	6,838.60	7.52	7.47	5,020	656	319	446	5.3	590	2,840	57.3	-0.05	149	-0.001
0627	5/8/2001	6,838.10	7.08	7.68	5,190	557	289	530	4.9	577	2,320	60.2	0.09	154	-0.001
0627	6/5/2001	6,838.30	7.14	7.67	4,950	576	304	521	3.8	580	2,660	55.1	0.09	142	-0.001
0627	7/10/2001	6,838.05	7.48	7.45	5,270	585	313	585	4.4	600	2,450	55.9	0.06	149	-0.001
0627	8/8/2001	6,838.00	7.09	7.6	5,220	540	290	460	4.1	596	2,300	64	0.11	140	-0.001
0627	9/11/2001	6,838.00	6.99	7.8	4,190	550	290	540	4.9	600	2,380	64.4	0.08	158	-0.001
0627	10/2/2001	6,838.05	7.08	7.7	5,230	540	290	540	5.6	609	2,300	74	-0.05	152	-0.001
0627	11/6/2001	6,838.00	7.13	7.9	5,310	595	305	451	5.8	602	2,600	69	0.06	142	-0.001
0627	12/4/2001	6,838.25	7.3	7.8	5,190	559	277	498	4.7	610	2,290	65.2	0.07	148	-0.001
0627	1/8/2002	6,837.90	7.27	7.7	5,150	641	314	407	6.5	603	2,290	73.6	-0.05	134	-0.001
0627	2/5/2002	6,837.80	7.34	7.7	5,190	625	298	436	6.1	601	2,560	70.8	-0.05	133	-0.001
0627	3/5/2002	6,837.80	7.17	7.8	5,160	595	300	495	5.1	611	2,670	64.3	0.07	133	-0.001
0627	4/9/2002	6,837.50	7.08	7.64	5,250	559	286	486	6.5	612	2,440	74.1	0.09	142	-0.001
0627	5/7/2002	6,837.73	7.09	7.84	5,180	594	294	512	5.9	601	2,500	59.7	0.08	137	-0.001
0627	6/4/2002	6,837.61	7.17	7.71	5,190	607	300	479	4.6	602	2,550	53.8	0.12	122	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0627	7/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.1	-0.1	-0.05	-0.001	-0.1	0.02	- 1.4	-0.2	-1	-1
0627	10/7/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.12	-0.1	-0.05	-0.001	-0.1	0.023	- 1.8	-0.2	-1	-1
0627	1/16/1998	-0.1	-0.001	-0.01	-0.01	0.02	-0.05	1.47	-0.1	-0.05	-0.001	-0.1	0.0222	- 1.9	-0.2	-1	-1
0627	4/7/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.12	-0.1	-0.05	-0.001	-0.1	0.0221	- 1.7	-0.2	-1	-1
0627	7/7/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.1	-0.1	-0.05	-0.001	-0.1	0.0233	4.2	-0.2	-1	-1
0627	10/6/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.14	-0.1	-0.05	-0.001	-0.1	0.0345	- 2.2	-0.2	-1	-1
0627	1/6/1999	-0.1	-0.001	-0.01	0.006	-0.01	-0.05	0.22	-0.1	-0.05	-0.001	-0.1	0.0239	- 1.2	-0.2	-1	-1
0627	4/6/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.18	-0.1	-0.05	0.002	-0.1	0.0233	3.5	-0.2	-1	-1
0627	7/13/1999	-0.1	-0.001	-0.01	-0.005	0.02	-0.05	0.08	-0.1	-0.05	-0.001	-0.1	0.002	- 1.8	-0.2	3	2.9
0627	10/5/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.73	-0.1	-0.05	0.002	-0.1	0.0247	- 2.3	-0.2	-1	-1
0627	1/4/2000	-0.1	-0.001	-0.01	-0.005	0.06	-0.05	0.86	-0.1	-0.05	0.003	-0.1	0.0233	6.1	-0.2	-1	5.5
0627	5/10/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.1	-0.1	-0.05	-0.001	-0.1	0.0259	6.7	-0.2	5.7	-1
0627	7/18/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.11	-0.1	-0.05	-0.001	-0.1	-0.0003	3.1	-0.2	-1	-1
0627	10/10/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.08	-0.1	-0.05	-0.001	-0.1	0.024	- 1.5	-0.2	-1	-1
0627	1/9/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.11	-0.1	-0.05	0.001	-0.1	0.023	2.9	-0.2	-1	-1
0627	2/6/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.11	-0.1	-0.05	0.002	-0.1	0.0239	2.0	-0.2	-1	-1
0627	3/6/2001	-0.1	0.001	-0.01	-0.005	-0.01	-0.05	0.12	-0.1	-0.05	0.001	-0.1	0.024	- 1.4	-0.2	-1	-1
0627	4/10/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.14	-0.1	-0.05	0.001	-0.1	0.03	- 1.4	-0.2	-1	-1
0627	5/8/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.13	-0.1	-0.05	0.001	-0.1	0.024	- 1.2	-0.2	-1	-1
0627	6/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.12	-0.1	-0.05	0.003	-0.1	0.024	- 1.2	-0.2	-1	-1
0627	7/10/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.12	-0.1	-0.05	0.001	-0.1	0.024	- 1.2	-0.2	-1	-1
0627	8/8/2001	-0.1	-0.001	-0.01	0.006	-0.01	-0.05	0.1	-0.1	-0.05	-0.001	-0.1	0.025	- 1.2	-0.2	-1	-1
0627	9/11/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.12	-0.1	-0.05	0.001	-0.1	0.023	- 1.6	-0.2	-1	-1
0627	10/2/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.1	-0.1	-0.05	0.001	-0.1	0.0235	- 1.7	-0.2	-1	-1
0627	11/6/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.11	-0.1	-0.05	0.002	-0.1	0.0224	- 1.6	-0.2	-1	-1
0627	12/4/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.08	-0.1	-0.05	-0.001	-0.1	0.0223	- 1.8	-0.2	-1	-1
0627	1/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.11	-0.1	-0.05	-0.001	-0.1	0.0228	- 1.8	-0.2	-1	-1
0627	2/5/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.11	-0.1	-0.05	-0.001	-0.1	0.014	- 1.5	-0.2	-1	-1
0627	3/5/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.12	-0.1	-0.05	-0.001	-0.1	0.0251	- 1.4	-0.2	-1	-1
0627	4/9/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.11	-0.1	-0.05	-0.001	-0.1	0.0244	- 1.2	-0.2	-1	-1
0627	5/7/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.13	-0.1	-0.05	0.001	-0.1	0.0249	- 1.2	-0.2	-1	-1
0627	6/4/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.13	-0.1	-0.05	-0.001	-0.1	0.0246	- 1.7	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
0627	7/9/2002	6,837.42	7.13	7.9	5,350	587	306	495	5.5	608	2,590	76	-0.05	133	-0.001
0627	10/7/2002	6,837.30	7.1	7.65	4,170	543	280	455	4.7	611	2,160	50.1	0.06	139	-0.001

TAB A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0627	7/9/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.11	-0.1	-0.05	-0.001	-0.1	0.0228	- 1.3	-0.2	-1	-1
0627	10/7/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.09	-0.1	-0.05	-0.001	-0.1	0.0198	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
EPA Standard		NA	NA	NA	4,800	NA	NA	NA	NA	NA	2,125	250	NA	190	NA
0632	7/19/1989	6,874.20	6.5	6.77	6,819	788	667	330	9.2	2,123	2,840	242	0.5	107	-0.001
0632	10/16/1989	6,874.00	6.8	7.1	6,466	781	671	408	10.7	2,257	2,578	246	0.47	95	-0.001
0632	1/10/1990	6,872.30	6.4	6.54	6,860	783	712	407	8.35	2,111	2,747	251	0.43	83	-0.001
0632	4/10/1990	6,870.40	6.3	7.16	6,977	778	688	380	7.4	2,208	2,677	258	0.44	107	-0.001
0632	7/10/1990	6,871.10	6.3	6.86	7,355	819	674	412	7.9	2,296	3,007	248	0.37	124	-0.001
0632	10/9/1990	6,870.40	6.2	7.27	7,558	839	707	433	9	2,239	2,945	258	0.52	106	-0.001
0632	1/10/1991	6,869.90	6.3	7.18	7,367	900	760	429	8.9	2,184	3,027	267	0.4	113	-0.001
0632	4/11/1991	6,869.90	6.2	7.36	7,346	857	663	451	9.4	2,285	3,053	274	0.37	146	-0.001
0632	7/9/1991	6,868.30	6.3	6.68	7,472	833	636	390	6.9	2,336	2,964	273	0.61	117	-0.001
0632	10/17/1991	6,867.50	6.1	7.08	7,677	886	630	426	8.4	2,510	2,959	267	0.72	87.6	-0.001
0632	1/21/1992	6,867.60	6.2	6.95	7,030	747	758	424	7.2	2,211	3,200	261	0.6	76.1	-0.001
0632	4/14/1992	6,868.30	6.1	7.56	7,706	677	557	460	9.1	2,184	3,126	263	0.55	75.7	-0.001
0632	7/14/1992	6,864.50	6	8.05	6,323	815	547	451	11.3	1,568	2,948	265	0.36	119	-0.001
0632	10/13/1992	6,863.00	6.4	7.02	6,472	719	594	417	7.4	2,495	2,903	269	0.18	89.5	-0.001
0632	1/12/1993	6,864.80	6.4	7.02	5,933	750	571	438	11.2	1,220	3,037	265	0.24	92.7	-0.001
0632	4/14/1993	6,865.60	6.4	7.11	6,925	696	633	433	6.7	2,113	2,962	269	0.31	95.3	-0.001
0632	7/15/1993	6,862.20	6.4	6.72	6,303	701	607	426	9.1	2,098	3,107	264	0.19	62.1	-0.001
0632	10/7/1993	6,860.40	6.5	7.1	5,715	676	555	384	6.6	2,240	2,392	255	0.13	56.6	-0.001
0632	1/6/1994	6,862.40	6.5	7.51	6,091	690	549	409	6.9	1,984	2,705	252	0.17	36.5	0.001
0632	4/14/1994	6,862.50	6.4	6.74	5,930	683	579	426	7.8	2,063	2,807	251	0.33	25.9	-0.001
0632	7/21/1994	6,862.70	6.4	7.19	6,160	745	632	383	7.5	2,123	3,080	246	0.23	30.3	-0.001
0632	10/5/1994	6,861.10	6.3	7.47	6,288	692	619	431	8.1	2,200	2,689	255	0.23	20.9	-0.001
0632	1/10/1995	6,861.70	6.4	7.45	6,458	708	655	348	8.2	2,184	2,857	250	0.41	21.9	-0.001
0632	4/5/1995	6,860.90	6.5	6.93	6,453	685	650	420	10.8	2,119	2,905	250	2.51	23.9	-0.001
0632	7/6/1995	6,860.30	6.4	7.52	6,335	696	646	393	8.5	2,281	2,647	285	0.43	24.1	-0.001
0632	10/3/1995	6,860.30	6.3	7.52	6,319	695	585	374	8.2	2,247	2,745	250	0.44	16.8	-0.001
0632	1/4/1996	6,859.10	6.5	7.59	6,294	760	625	378	7.9	2,239	2,595	250	0.22	16.4	-0.001
0632	4/2/1996	6,859.30	6.6	7.82	5,940	650	585	384	8.1	1,807	2,715	278	0.26	17.4	-0.001
0632	7/7/1996	6,858.80	6.4	7.4	6,258	671	589	397	8.8	2,035	2,749	233	0.29	10.9	0.00168
0632	10/1/1996	6,859.30	6.5	6.92	6,280	676	602	396	8.5	2,050	2,758	255	0.2	11.5	0.001
0632	1/22/1997	6,858.60	6.5	7.49	6,120	670	590	379	8.7	2,130	2,740	285	0.2	10	0.0011
0632	4/8/1997	6,858.30	6.5	7.75	6,180	679	591	369	8.6	2,010	2,694	287	0.2	9.8	0.00105

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0632	7/19/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.15	-0.1	-0.05	0.004	-0.1	0.111	3.4	1.1	-1	4.1
0632	10/16/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.12	-0.1	-0.05	0.003	-0.1	0.111	2.9	-0.2	-1	-1
0632	1/10/1990	-0.1	-0.001	-0.05	-0.01	0.04	-0.05	0.15	-0.1	0.07	0.003	-0.1	0.084	2.6	-0.2	-1	1.2
0632	4/10/1990	-0.1	-0.001	-0.05	-0.01	0.03	-0.05	0.24	-0.1	-0.05	0.003	-0.1	0.084	2.6	-0.2	-1	1.2
0632	7/10/1990	-0.1	-0.001	-0.05	-0.01	0.01	-0.05	0.27	-0.1	-0.05	0.004	-0.1	0.0785	2.8	-0.2	-1	1
0632	10/9/1990	-0.1	-0.001	-0.05	-0.01	0.02	-0.05	0.22	-0.1	-0.05	0.003	-0.1	0.1312	2.8	-0.2	-1	-1
0632	1/10/1991	-0.1	0.002	-0.01	-0.01	0.02	-0.05	0.25	-0.1	0.05	0.005	-0.1	0.0795	- 3.2	-0.2	-1	2.7
0632	4/11/1991	-0.1	0.002	-0.01	-0.01	0.02	-0.05	0.29	-0.1	-0.05	0.005	-0.1	0.0931	- 2.1	-0.2	-1	1
0632	7/9/1991	0.14	-0.001	-0.01	-0.01	-0.01	-0.05	0.25	-0.1	-0.05	0.003	-0.1	0.0818	2.5	-0.2	-1	-1
0632	10/17/1991	-0.1	0.001	-0.01	-0.01	-0.01	-0.05	0.43	-0.1	-0.05	0.018	-0.1	0.169	- 1.8	-0.2	1.6	-1
0632	1/21/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.25	-0.1	-0.05	0.004	-0.1	0.072	3.8	-0.2	-1	1
0632	4/14/1992	-0.1	0.002	-0.01	-0.01	-0.01	-0.05	0.28	-0.1	-0.05	0.008	-0.1	0.08	4.6	-0.2	1.6	-1
0632	7/14/1992	-0.1	0.001	-0.01	-0.01	-0.01	-0.05	0.16	-0.1	-0.05	0.003	-0.1	0.095	3.3	-0.2	4.2	2.5
0632	10/13/1992	-0.1	-0.001	-0.01	-0.01	0.02	-0.05	0.16	-0.1	-0.05	0.003	-0.1	0.147	7.7	-0.2	-1	1.5
0632	1/12/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.85	-0.1	-0.05	0.004	-0.1	0.068	5.6	-0.2	-1	1.5
0632	4/14/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.32	-0.1	-0.05	0.002	-0.1	0.113	8.4	1.3	1.2	8.1
0632	7/15/1993	-0.1	-0.001	-0.01	-0.01	0.01	-0.05	0.18	-0.1	-0.05	0.005	-0.1	0.082	- 2.2	-0.2	-1	1.5
0632	10/7/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.27	-0.1	-0.05	0.003	-0.1	0.093	2.9	-0.2	1.2	1.8
0632	1/6/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.34	-0.1	-0.05	-0.001	-0.1	0.082	5.0	-0.2	-1	7.7
0632	4/14/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.37	-0.1	-0.05	0.001	-0.1	0.088	4.1	-0.2	2.4	5.5
0632	7/21/1994	-0.1	0.002	-0.01	-0.01	-0.01	-0.05	0.39	-0.1	-0.05	0.002	-0.1	0.09	6.0	-0.2	-1	8.7
0632	10/5/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.42	-0.1	-0.05	-0.001	-0.1	0.08	- 2.0	-0.2	3.6	1.2
0632	1/10/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.43	-0.1	-0.05	-0.001	-0.1	0.086	- 3.0	-0.2	1.7	3.7
0632	4/5/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.52	-0.1	-0.05	0.002	-0.1	0.077	4.3	-0.2	1.1	6
0632	7/6/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.5	-0.1	-0.05	0.002	-0.1	0.0954	- 2.6	0.4	-1	4.2
0632	10/3/1995	-0.1	0.003	-0.01	-0.01	-0.01	-0.05	0.11	-0.1	-0.05	-0.001	-0.1	0.0899	- 2.1	-0.2	3.3	2.6
0632	1/4/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.74	-0.1	-0.05	-0.001	-0.1	0.092	2.1	0.3	1.2	1.8
0632	4/2/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.55	-0.1	-0.05	-0.001	-0.1	0.09	- 2.7	-0.2	-1	5.8
0632	7/7/1996	-0.1	0.014	-0.01	-0.01	-0.01	-0.05	0.61	-0.1	-0.05	0.012	-0.1	0.092	- 1.8	-0.2	-1	-1
0632	10/1/1996	-0.1	0.001	-0.01	-0.01	-0.01	-0.05	0.57	-0.1	-0.05	0.002	-0.1	0.078	- 1.8	-0.2	-1	3.4
0632	1/22/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.63	-0.1	-0.05	-0.001	-0.1	0.077	- 2.4	-0.2	-1	-1
0632	4/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.63	-0.1	-0.05	-0.001	-0.1	0.088	4.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
EPA Standard		NA	NA	NA	4,800	NA	NA	NA	NA	NA	2,125	250	NA	190	NA
0632	7/8/1997	6,858.80	6.8	7.64	6,330	707	613	362	8.5	2,020	2,560	264	0.18	8.15	0.00114
0632	10/7/1997	6,858.40	6.4	7.63	6,170	679	592	369	8.4	2,020	2,740	290	0.12	6.37	0.00148
0632	1/16/1998	6,858.10	6.6	7.68	6,170	660	573	383	9.3	2,020	2,900	288	0.27	7.24	0.0019
0632	4/7/1998	6,857.90	6.5	7.39	5,970	681	594	385	8.4	2,030	2,500	234	0.1	7.95	0.0019
0632	7/7/1998	6,858.10	6.7	7.81	6,250	658	594	392	8.5	1,880	2,600	264	0.26	5	0.0023
0632	10/6/1998	6,859.00	6.58	7.71	6,200	664	598	401	9.1	1,820	2,730	279	0.22	7.89	0.0024
0632	1/5/1999	6,857.40	6.7	7.82	6,200	629	559	331	8.6	1,930	2,440	242	0.21	5.94	0.0016
0632	4/6/1999	6,857.30	6.6	7.9	6,320	662	594	354	8.1	1,890	2,720	251	0.21	6.37	0.0015
0632	7/13/1999	6,857.09	6.3	7.78	6,140	651	602	336	14.3	1,910	2,830	244	0.21	5.72	0.0018
0632	10/5/1999	6,858.10	6.6	7.75	6,060	691	667	375	8.3	1,850	3,140	235	0.16	6.03	0.0021
0632	1/4/2000	6,857.60	6.6	7.93	6,210	581	555	283	10.8	1,790	2,610	217	0.24	4.44	0.002
0632	5/8/2000	6,856.90	6.3	7.6	6,020	579	560	366	8.3	1,800	2,640	238	0.05	2.44	0.0028
0632	7/12/2000	6,856.90	6.25	6.98	6,070	595	580	366	8.09	1,810	2,510	239	0.08	2.92	0.002
0632	10/3/2000	6,856.70	6.28	7.18	6,020	622	610	240	9.7	1,780	2,820	230	0.07	3.17	0.0025
0632	1/8/2001	6,858.50	6.38	7.38	6,180	624	612	347	8.7	1,740	3,020	223	0.17	2.69	0.0035
0632	2/5/2001	6,859.80	6.55	7.04	6,410	729	701	428	10.3	1,660	3,420	233	0.35	5.9	0.0028
0632	3/6/2001	6,860.20	6.51	7.31	6,100	630	653	450	10.3	1,640	3,400	199	0.34	12.7	0.0032
0632	4/3/2001	6,860.70	6.45	7.17	6,800	710	713	359	8.1	1,600	3,370	228	0.33	21.6	0.00349
0632	5/7/2001	6,860.90	6.3	7.41	6,860	625	650	410	8.7	1,600	3,000	244	0.36	26.5	0.0019
0632	6/4/2001	6,861.20	6.36	7.22	6,620	622	663	316	8.9	1,580	3,180	246	0.38	32.7	0.0031
0632	7/9/2001	6,861.43	6.84	7.08	6,990	682	742	348	8.5	1,680	3,260	253	0.33	35.9	0.0031
0632	8/6/2001	6,861.39	6.27	7.2	7,000	620	680	340	9	1,670	3,000	300	0.31	34.2	0.0027
0632	9/10/2001	6,861.60	6.25	7	7,020	630	700	355	9.4	1,700	3,100	273	0.32	45.3	0.00246
0632	10/1/2001	6,861.65	6.35	7.4	7,080	610	690	336	10.1	1,730	2,900	311	0.28	40.2	0.00195
0632	11/5/2001	6,861.80	6.34	7.5	7,060	669	732	360	10	1,680	3,390	293	0.3	43.2	0.0024
0632	12/3/2001	6,861.90	6.37	6.8	7,100	613	671	309	8.7	1,740	3,000	272	0.33	46	0.0018
0632	1/8/2002	6,862.00	6.45	7	7,020	719	748	289	10.5	1,700	3,530	294	0.33	40.2	0.0024
0632	2/4/2002	6,862.10	6.37	7	7,070	690	717	332	10.1	1,720	3,330	292	0.37	41.1	0.00236
0632	3/4/2002	6,862.05	6.36	7.1	7,080	649	721	376	9.4	1,690	3,460	278	0.32	44	0.0025
0632	4/2/2002	6,862.31	6.32	7.04	7,140	674	733	378	11.8	1,730	3,530	280	0.34	42.5	0.0027
0632	5/6/2002	6,862.32	6.22	7.16	7,130	649	715	388	10.7	1,720	3,270	260	0.34	43.7	0.0024
0632	6/3/2002	6,862.41	6.24	7.3	7,150	645	717	349	8.9	1,710	3,290	240	0.34	45.1	0.0028

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0632	7/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.57	-0.1	-0.05	-0.001	-0.1	0.077	5.8	-0.2	-1	-1
0632	10/7/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.82	-0.1	-0.05	-0.001	-0.1	0.075	- 1.7	-0.2	-1	-1
0632	1/16/1998	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.75	-0.1	-0.05	-0.001	-0.1	0.089	- 1.9	-0.2	-1	2
0632	4/7/1998	-0.1	-0.001	-0.1	-0.005	-0.01	-0.05	0.71	-0.1	-0.05	0.005	-0.1	0.086	- 2.6	-0.2	-1	-1
0632	7/7/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.72	-0.1	-0.05	-0.001	-0.1	0.0859	5.1	-0.2	-1	-1
0632	10/6/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.74	-0.1	-0.05	-0.001	-0.1	0.144	- 2.3	-0.2	-1	-1
0632	1/5/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.66	-0.1	-0.05	-0.001	-0.1	0.0817	- 1.2	-0.2	-1	-1
0632	4/6/1999	-0.1	-0.001	-0.01	0.008	-0.01	-0.05	0.7	-0.1	-0.05	-0.001	-0.1	0.124	- 2.7	-0.2	-1	-1
0632	7/13/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.72	-0.1	-0.05	-0.001	-0.1	0.0775	- 1.5	-0.2	2.9	3.5
0632	10/5/1999	-0.1	-0.001	-0.01	0.006	-0.01	-0.05	0.85	-0.1	-0.05	0.001	-0.1	0.0795	- 3.1	-0.2	-1	1.6
0632	1/4/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.87	-0.1	0.05	0.001	-0.1	0.0704	- 2.3	-0.2	-1	2.1
0632	5/8/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.04	-0.1	-0.05	-0.001	-0.1	0.0774	- 1.5	-0.2	-1	-1
0632	7/12/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.79	-0.1	-0.05	-0.001	-0.1	0.0739	3.0	-0.2	-1	-1
0632	10/3/2000	-0.1	-0.001	-0.01	-0.005	-0.01	0.06	0.73	-0.1	-0.05	0.001	-0.1	0.018	- 1.8	-0.2	-1	-1
0632	1/8/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.85	-0.1	-0.05	0.001	-0.1	0.064	2.6	-0.2	-1	-1
0632	2/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.85	-0.1	-0.05	-0.001	-0.1	0.066	3.6	-0.2	-1	-1
0632	3/6/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.92	-0.1	-0.05	-0.001	-0.1	0.0601	- 2.0	-0.2	-1	-1
0632	4/3/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.87	-0.1	-0.05	-0.001	-0.1	0.059	- 2.1	-0.2	-1	1.7
0632	5/7/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.95	-0.1	-0.05	-0.001	-0.1	0.062	- 1.2	-0.2	-1	-1
0632	6/4/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.98	-0.1	-0.05	0.004	-0.1	0.06	4.5	-0.2	-1	-1
0632	7/9/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.97	-0.1	-0.05	-0.001	-0.1	0.0632	- 2.1	-0.2	-1	-1
0632	8/6/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.1	-0.1	-0.05	-0.001	-0.1	0.072	2.9	-0.2	-1	-1
0632	9/10/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.91	-0.1	-0.05	-0.001	-0.1	0.0582	3.7	-0.2	-1	-1
0632	10/1/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.85	-0.1	-0.05	-0.001	-0.1	0.0608	- 2.1	-0.2	-1	-1
0632	11/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.97	-0.1	-0.05	-0.001	-0.1	0.0542	- 2.0	-0.2	-1	-1
0632	12/3/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.87	-0.1	-0.05	-0.001	-0.1	0.0577	4.3	-0.2	-1	-1
0632	1/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.95	-0.1	-0.05	-0.001	-0.1	0.0575	2.4	-0.2	-1	3.2
0632	2/4/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.92	-0.1	-0.05	-0.001	-0.1	0.051	3.1	-0.2	-1	-1
0632	3/4/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.08	-0.1	-0.05	-0.001	-0.1	0.066	- 1.6	-0.2	-1	1.8
0632	4/2/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.13	-0.1	-0.05	-0.001	-0.1	0.059	4.2	-0.2	-1	-1
0632	5/6/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.12	-0.1	-0.05	-0.001	-0.1	0.0636	3.0	-0.2	-1	2.1
0632	6/3/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1	-0.1	-0.05	-0.001	-0.1	0.058	- 1.6	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
0632	7/8/2002	6,862.21	6.47	7.75	7,200	645	761	292	11.4	1,710	3,490	229	0.36	43.3	0.0024
0632	10/8/2002	6,862.08	6.61	7.29	7,100	578	685	356	8.7	1,700	3,150	221	0.3	45.7	0.0026

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0632	7/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.96	-0.1	-0.05	-0.001	-0.1	0.0708	- 2.0	-0.2	-1	-1
0632	10/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.07	-0.1	-0.05	-0.001	-0.1	0.0521	- 3.1	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
EPA Standard		NA	NA	NA	4,800	NA	NA	NA	NA	NA	2,125	250	NA	190	NA
0639	7/23/1989	6,940.70	6.9	7.16	3,752	366	390	168	4.2	390	2,319	33.9	0.09	3.6	-0.001
0639	10/8/1989	6,940.30	6.6	7.4	4,076	410	375	177	6.6	448	2,508	34.2	0.06	4	-0.001
0639	1/11/1990	6,939.60	6.7	7.13	4,734	444	478	186	5.55	497	2,830	37.5	0.11	3.4	-0.001
0639	4/10/1990	6,939.00	6.7	7.48	5,351	467	590	193	5.6	565	3,153	40.1	0.11	3.3	-0.001
0639	7/10/1990	6,938.60	6.7	7.08	5,461	419	583	194	5.1	583	3,265	39	-0.05	3	-0.001
0639	10/9/1990	6,938.40	6.7	7.59	4,043	305	464	176	6.5	516	2,452	27.1	-0.05	2.05	-0.001
0639	1/17/1991	6,938.00	6.2	7.25	4,672	382	508	178	6.3	508	2,944	32	-0.05	2	-0.001
0639	4/10/1991	6,937.80	6.5	7.51	4,523	347	531	173	7.8	551	2,690	29.2	-0.05	4.8	-0.001
0639	7/10/1991	6,937.40	6.5	7.26	4,877	309	449	150	5.6	555	3,046	27.6	-0.05	3.3	-0.001
0639	10/17/1991	6,937.00	6.4	7.37	4,899	412	531	158	7.1	626	2,803	40.8	-0.05	4.4	-0.001
0639	1/21/1992	6,936.80	6.4	7.2	4,330	409	510	153	5.3	620	2,792	29.4	-0.05	2.93	-0.001
0639	4/13/1992	6,936.70	6.3	7.54	5,005	363	499	165	6.1	618	2,922	33.5	-0.05	3.31	-0.001
0639	7/14/1992	6,936.50	6.3	7.36	4,857	393	507	175	6.6	616	2,845	28	-0.05	3.74	-0.001
0639	10/13/1992	6,936.40	6.4	7.55	4,661	335	437	154	6.6	619	2,801	27	0.13	2.1	-0.001
0639	1/21/1993	6,936.10	6.5	7.09	3,924	340	416	131	5.8	570	2,359	23.3	0.15	2	-0.001
0639	4/14/1993	6,936.00	6.6	7.85	3,417	301	343	123	3.7	561	1,988	18.6	0.07	2	-0.001
0639	7/15/1993	6,935.70	6.6	6.91	3,046	300	300	123	6.9	576	1,959	19.2	0.19	1.63	-0.001
0639	10/6/1993	6,934.60	6.6	6.76	3,060	264	321	115	3.6	539	1,862	16.8	-0.05	2.3	-0.001
0639	1/5/1994	6,935.60	6.5	7.38	3,018	323	325	104	3.3	559	1,781	17	0.22	1.38	-0.001
0639	4/13/1994	6,935.30	6.7	7.1	3,058	303	304	104	2.8	458	1,862	15.8	0.18	1.31	-0.001
0639	10/5/1994	6,935.50	6.6	7.99	3,396	368	348	119	2.6	373	2,142	16.3	0.15	1.61	-0.001

TAb__ A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0639	7/23/1989	-0.1	-0.001	-0.05	-0.01	0.01	-0.05	1.8	-0.1	-0.05	0.001	-0.1	0.174	- 1.3	-0.2	-1	2.5
0639	10/8/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.27	-0.1	-0.05	0.001	-0.1	0.291	- 2.8	14.3	-1	17.8
0639	1/11/1990	-0.1	-0.001	-0.05	-0.01	0.04	-0.05	0.41	-0.1	-0.05	-0.001	-0.1	0.276	- 1.2	3.4	10.3	4
0639	4/10/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.56	-0.1	-0.05	0.002	-0.1	0.096	2.5	-0.2	-1	1.7
0639	7/10/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.89	-0.1	-0.05	0.001	-0.1	0.2416	- 1.2	-0.2	-1	-1
0639	10/9/1990	-0.1	-0.001	-0.05	-0.01	0.02	-0.05	0.99	-0.1	-0.05	-0.001	-0.1	0.2623	- 1.5	-0.2	1.9	-1
0639	1/17/1991	0.12	-0.001	-0.01	-0.01	-0.01	-0.05	1.34	-0.1	-0.05	0.002	-0.1	0.1984	- 2.4	-0.2	-1	1.9
0639	4/10/1991	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.14	-0.1	-0.05	0.002	-0.1	0.196	- 1.2	-0.2	-1	-1
0639	7/10/1991	-0.1	-0.001	-0.01	-0.01	0.01	-0.05	1.47	-0.1	-0.05	0.035	-0.1	0.2739	- 2.0	-0.2	-1	1
0639	10/17/1991	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.48	-0.1	-0.05	0.002	-0.1	0.272	- 1.2	-0.2	-1	-1
0639	1/21/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.27	-0.1	-0.05	0.002	-0.1	0.17	2.5	-0.2	2.2	-1
0639	4/13/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.59	-0.1	-0.05	0.006	-0.1	0.367	4.9	-0.2	3.3	2.2
0639	7/14/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.41	-0.1	-0.05	0.002	-0.1	0.245	1.9	-0.2	1.9	-1
0639	10/13/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.51	-0.1	-0.05	0.003	-0.1	0.223	4.3	-0.2	-1	-1
0639	1/21/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.07	-0.1	-0.05	0.002	-0.1	0.094	- 4.3	-0.2	3.9	-1
0639	4/14/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.67	-0.1	-0.05	0.003	-0.1	0.08	12.0	-0.2	-1	6.4
0639	7/15/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.44	-0.1	-0.05	0.009	-0.1	0.109	- 1.2	-0.2	-1	-1
0639	10/6/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.15	-0.1	-0.05	0.003	-0.1	0.071	4.9	-0.2	2	5.8
0639	1/5/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.71	-0.1	-0.05	-0.001	-0.1	0.107	- 4.8	-0.2	3.2	4.8
0639	4/13/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.18	-0.1	-0.05	0.002	-0.1	0.11	- 1.3	-0.2	7.2	-1
0639	10/5/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.8	-0.1	-0.05	-0.001	-0.1	0.07	- 7.2	-0.2	-1	10.8

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
EPA Standard		NA	NA	NA	4,800	NA	NA	NA	NA	NA	2,125	250	NA	190	NA
0642	7/23/1989	6,928.10	6.9	7.36	4,083	675	233	179	2.7	405	2,209	37.1	0.13	80	-0.001
0642	10/8/1989	6,927.50	6.8	7.4	4,140	634	227	177	3.6	414	2,182	37.9	0.08	93	-0.001
0642	1/11/1990	6,926.50	6.8	7.2	4,080	628	229	174	2.61	421	2,176	26.5	0.06	85	-0.001
0642	4/10/1990	6,925.70	6.8	7.5	4,161	634	250	171	2.4	430	2,129	35.7	0.12	75	-0.001
0642	7/10/1990	6,924.80	6.9	7.3	4,232	714	263	171	1.9	426	2,209	34	-0.05	83.4	-0.001
0642	10/9/1990	6,924.10	6.7	7.62	4,168	582	242	174	3.2	415	2,319	34.4	-0.05	66.9	-0.001
0642	1/17/1991	6,923.50	6.7	7.58	4,131	676	268	181	2.4	414	2,323	35.1	-0.05	61.5	-0.001
0642	4/10/1991	6,922.80	6.8	7.84	4,110	623	273	162	4.4	432	2,216	34.1	-0.05	87	-0.001
0642	7/10/1991	6,922.20	6.7	7.49	4,089	625	257	155	2.8	423	2,309	33.1	-0.05	68.1	-0.001
0642	10/17/1991	6,921.60	6.7	7.52	4,093	639	233	167	3.6	442	2,229	34.5	-0.05	55.4	-0.001
0642	1/21/1992	6,920.60	6.8	7.35	4,133	684	223	158	2.4	425	2,307	75	-0.05	38.1	-0.001
0642	4/13/1992	6,920.00	6.7	7.43	4,096	562	238	185	3.1	399	1,851	31.5	-0.05	29	-0.001
0642	7/14/1992	6,919.30	6.4	7.72	4,196	668	266	183	3.2	405	2,518	28.4	-0.05	46	-0.001
0642	10/13/1992	6,918.50	6.8	7.59	3,909	617	260	169	3	422	2,721	29	-0.05	45.9	-0.001
0642	1/21/1993	6,917.60	6.9	7.52	4,295	642	268	157	3.5	422	2,575	31.6	-0.05	32.8	-0.001
0642	4/14/1993	6,917.00	7	7.95	4,460	640	283	166	2.2	453	2,621	30.4	-0.05	35.1	-0.001
0642	7/15/1993	6,916.20	7	7.02	4,023	598	266	182	5.1	478	2,657	33	0.08	2.2	-0.001
0642	10/6/1993	6,912.90	7.1	7.1	4,659	598	325	192	2.2	432	2,849	28.6	-0.05	29.5	-0.001
0642	1/5/1994	6,915.00	7.1	7.68	4,362	580	326	150	2.8	450	2,709	29.5	-0.05	22.3	-0.001
0642	4/13/1994	6,914.40	7.1	7.33	4,446	610	334	149	2.8	442	2,782	30	0.18	21.2	-0.001
0642	7/21/1994	6,913.70	7.1	7.37	4,667	789	374	164	4.1	471	3,117	27.3	0.08	21.3	-0.001
0642	10/5/1994	6,913.30	7	7.7	4,699	649	377	178	4.5	490	2,863	29.8	0.11	20.6	-0.001
0642	1/5/1995	6,912.60	7	7.57	4,800	630	379	163	5.2	505	2,823	30.7	0.17	18.2	-0.001
0642	4/5/1995	6,912.60	7	7.44	4,804	583	390	156	3.9	519	2,869	30	0.2	17	-0.001
0642	7/6/1995	6,911.60	7	7.99	4,613	605	377	167	5.3	527	2,781	29	-0.05	20.7	-0.001
0642	10/4/1995	6,911.80	7												

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0642	7/23/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.01	-0.1	-0.05	0.002	-0.1	0.0356	- 1.7	5.4	-1	4.3
0642	10/8/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	0.002	-0.1	0.083	4.0	3.6	-1	6.4
0642	1/11/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	0.001	-0.1	0.001	- 1.2	0.2	-1	1
0642	4/10/1990	-0.1	-0.001	-0.05	-0.01	0.01	-0.05	0.1	-0.1	-0.05	0.002	-0.1	0.036	- 5.7	4.3	-1	0.4
0642	7/10/1990	-0.1	-0.001	-0.05	-0.01	0.02	-0.05	-0.01	-0.1	-0.05	0.002	-0.1	0.055	- 1.0	-0.2	-1	-1
0642	10/9/1990	-0.1	-0.001	-0.05	-0.01	0.02	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.0446	- 1.2	-0.2	-1	-1
0642	1/17/1991	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	-0.001	-0.1	0.0357	- 1.2	-0.2	-1	-1
0642	4/10/1991	-0.1	-0.001	-0.01	-0.01	0.01	-0.05	-0.01	-0.1	-0.05	0.001	-0.1	0.0363	- 1.2	-0.2	3	-1
0642	7/10/1991	-0.1	-0.001	-0.01	-0.01	0.02	-0.05	-0.01	-0.1	-0.05	0.004	-0.1	0.0557	- 1.8	-0.2	3.2	-1
0642	10/17/1991	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	-0.03	-0.1	-0.05	0.002	-0.1	0.04	- 1.3	-0.2	-1	-1
0642	1/21/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	0.002	-0.1	0.029	- 1.5	-0.2	-1	-1
0642	4/13/1992	-0.1	-0.001	-0.01	-0.01	0.02	-0.05	0.04	-0.1	-0.05	0.002	-0.1	0.108	- 1.5	-0.2	-1	-1
0642	7/14/1992	-0.1	0.001	-0.01	-0.01	-0.01	-0.05	0.05	-0.1	-0.05	0.003	-0.1	0.05	1.5	-0.2	-1	-1
0642	10/13/1992	-0.1	0.001	-0.01	-0.01	-0.01	-0.05	0.03	-0.1	-0.05	0.001	-0.1	0.055	3.3	-0.2	-1	-1
0642	1/21/1993	-0.1	0.001	-0.01	-0.01	-0.01	-0.05	0.05	-0.1	-0.05	0.003	-0.1	0.046	- 1.4	-0.2	2.7	1.3
0642	4/14/1993	-0.1	-0.001	-0.001	-0.01	-0.01	-0.05	0.16	-0.1	-0.05	0.001	-0.1	0.06	- 1.7	-0.2	-1	-1
0642	7/15/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.1	-0.1	-0.05	0.003	-0.1	0.051	- 1.5	-0.2	-1	-1
0642	10/6/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.036	1.8	-0.2	-1	-1
0642	1/5/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.05	-0.1	-0.05	-0.001	-0.1	0.046	- 1.4	-0.2	3.1	-1
0642	4/13/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.07	-0.1	-0.05	0.003	-0.1	0.043	- 1.9	-0.2	2.7	-1
0642	7/21/1994	-0.1	0.001	-0.01	-0.01	-0.01	-0.05	0.12	-0.1	-0.05	0.006	-0.1	0.038	5.4	-0.2	3.5	5.3
0642	10/5/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.08	-0.1	-0.05	-0.001	-0.1	0.039	2.4	-0.2	3.9	3.4
0642	1/5/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.08	-0.1	-0.05	-0.001	-0.1	0.038	- 2.3	-0.2	-1	1.5
0642	4/5/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.09	-0.1	-0.05	0.002	-0.1	0.042	6.3	-0.2	2.8	7.9
0642	7/6/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.14	-0.1	-0.05	0.003	-0.1	0.0549	- 1.6	-0.2	1.2	4.8
0642	10/4/1995													-			

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
0644	7/23/1989	6,936.30	7.3	7.52	4,441	769	206	187	5.2	498	1,812	72.9	0.07	178	-0.001
0644	10/8/1989	6,935.70	6.8	7.5	4,778	860	227	203	5.8	676	1,776	89.3	0.1	300	-0.001
0644	1/11/1990	6,935.00	6.7	7.16	4,994	860	254	220	4.15	653	1,789	99	0.07	384	-0.001
0644	4/10/1990	6,934.30	6.8	7.52	5,426	854	260	222	4.2	623	1,669	100	0.11	396	-0.001
0644	7/10/1990	6,933.80	6.8	7.24	6,272	855	274	236	3.7	633	1,706	94.8	-0.05	615	-0.001
0644	10/9/1990	6,933.00	6.7	7.68	5,576	809	280	232	5.1	586	1,689	97.4	-0.05	377	-0.001
0644	1/17/1991	6,932.50	6.6	7.28	5,447	922	294	242	5.6	526	1,731	97	-0.05	512	-0.001
0644	4/10/1991	6,932.10	6.6	7.8	5,265	855	293	244	6.2	616	1,661	99.5	0.05	435	-0.001
0644	7/10/1991	6,931.70	6.7	7.55	5,991	845	272	218	4.2	586	1,852	96.2	0.06	534	-0.001
0644	10/17/1991	6,931.00	6.6	7.5	5,606	929	291	251	7	617	1,839	111	-0.05	401	-0.001
0644	1/21/1992	6,930.50	6.7	7.4	4,715	794	280	225	4.1	591	1,896	98	-0.05	234	-0.001
0644	4/13/1992	6,930.00	6.6	7.4	5,318	786	271	268	5.5	539	1,851	103	0.08	244	-0.001
0644	7/14/1992	6,929.00	6.3	7.38	5,770	824	270	285	6.6	464	1,884	92.1	-0.05	338	-0.001
0644	10/13/1992	6,929.00	6.7	7.34	5,731	771	263	241	5.4	488	2,121	97.5	0.07	250	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0644	7/23/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	0.013	-0.1	0.0652	- 1.5	-0.2	1.2	1.7
0644	10/8/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.07	-0.1	-0.05	0.018	-0.1	0.093	- 1.4	0.7	-1	-1
0644	1/11/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.03	-0.1	-0.05	0.011	-0.1	0.071	- 1.3	1.2	-1	4.2
0644	4/10/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.04	-0.1	-0.05	0.007	-0.1	0.069	2.1	-0.2	-1	1.2
0644	7/10/1990	-0.1	-0.001	-0.05	-0.01	0.01	-0.05	0.04	-0.1	-0.05	0.007	-0.1	0.11	- 1.6	-0.2	-1	-1
0644	10/9/1990	-0.1	-0.001	-0.05	-0.01	0.02	-0.05	0.04	-0.1	-0.05	0.004	-0.1	0.0656	- 1.2	-0.2	-1	-1
0644	1/17/1991	0.14	-0.001	-0.01	-0.01	0.01	-0.05	0.07	-0.1	-0.05	0.002	-0.1	0.0627	- 6.8	-0.2	1.3	-1
0644	4/10/1991	-0.1	-0.001	-0.01	-0.01	0.02	-0.05	0.07	-0.1	-0.05	0.005	-0.1	0.0608	2.3	-0.2	3.8	-1
0644	7/10/1991	-0.1	-0.001	-0.01	-0.01	0.02	-0.05	0.05	-0.1	-0.05	0.007	-0.1	0.1133	- 1.6	-0.2	-1	-1
0644	10/17/1991	0.14	-0.001	-0.01	-0.01	-0.01	-0.05	0.07	-0.1	-0.05	0.008	-0.1	0.078	- 1.6	-0.2	4.9	-1
0644	1/21/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.08	-0.1	-0.05	0.004	-0.1	0.042	4.8	-0.2	-1	2
0644	4/13/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.12	-0.1	-0.05	0.008	-0.1	0.043	- 2.6	-0.2	-1	1.8
0644	7/14/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.15	-0.1	-0.05	0.005	-0.1	0.08	3.9	-0.2	-1	-1
0644	10/13/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.15	-0.1	-0.05	0.012	-0.1	0.109	- 3.2	-0.2	-1	2.3

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
0645	10/8/1989	6,941.30	7.1	7.4	7,992	957	440	518	6.9	378	1,982	159	0.13	798	-0.001
0645	1/11/1990	6,940.80	6.7	7.18	8,426	929	539	574	4.48	354	2,299	168	0.14	926	-0.001
0645	4/10/1990	6,940.60	6.9	7.54	9,179	917	600	560	4.2	369	2,489	169	0.13	840	-0.001
0645	7/10/1990	6,940.00	7	7.28	10,530	829	680	637	4.2	365	2,728	157	-0.05	1225	-0.001
0645	10/10/1990	6,940.00	6.9	7.41	9,343	742	604	644	4.6	351	2,674	150	0.09	800	-0.001
0645	1/17/1991	6,939.80	6.9												
0645	4/10/1991	6,939.60													

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0645	10/8/1989	-0.1	-0.001	-0.05	0.052	-0.01	-0.05	1.2	-0.1	-0.05	0.04	-0.1	0.068	- 1.2	-0.2	-1	-1
0645	1/11/1990	-0.1	-0.001	-0.05	0.074	-0.01	-0.05	1.3	-0.1	-0.05	0.022	-0.1	0.038	- 1.2	-0.2	-1	1.1
0645	4/10/1990	-0.1	-0.001	-0.05	-0.01	0.01	-0.05	0.9	-0.1	-0.05	0.022	-0.1	0.041	1.5	-0.2	-1	1
0645	7/10/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.72	-0.1	-0.05	0.018	-0.1	0.052	- 1.2	1.1	-1	1
0645	10/10/1990	-0.1	-0.001	-0.05	0.068	0.01	-0.05	0.54	-0.1	-0.05	0.016	-0.1	-0.034	- 1.8	-0.2	-1	-1
0645	1/17/1991													-			
0645	4/10/1991													-			

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
0801	10/17/1989	6,873.40	6.5	6.69	9,214	626	1102	472	23	1,940	4,591	246	33.6	26	0.0018
0801	1/11/1990	--	6.5	6.74	8,830	628	997	470	14.9	2,111	4,416	262	25.1	62	-0.001
0801	4/5/1990	--	6.8	7.16	5,543	774	852	500	9.1	2,103	2,946	228	9.3	115	-0.001
0801	7/9/1990	--	6.5	6.82	9,507	626	1095	436	15.5	2,020	4,826	254	40	39.6	0.00192
0801	10/3/1990	--	6.3	7.09	9,800	565	1187	493	15.3	1,875	5,090	269	34.6	21.1	0.0016
0801	1/3/1991	--	6.1	6.84	9,316	628	1232	482	23.6	1,930	4,650	239	32.4	31.4	0.00272
0801	4/11/1991	--	6.1	7.09	9,510	601	1092	415	16.6	1,991	4,788	274	30	27.5	0.0034
0801	7/11/1991	--	6.3	7.08	9,566	620	1142	410	12.8	1,872	5,121	240	40	26.5	0.0035
0801	10/23/1991	--	6.3	7.08	9,049	566	1127	432	13.1	1,870	4,508	271	27.7	10.1	0.0033
0801	1/16/1992	--	6.2	7.28	8,346	502	961	441	13	1,825	4,891	247	41.5	13.6	0.0036
0801	4/13/1992	--	6.2	7.11	9,240	518	635	444	15.1	1,869	4,650	255	31.7	12.8	0.0042
0801	7/8/1992	--	6.1	7.38	8,276	635	634	539	16	1,915	4,512	246	28.1	38.1	0.003
0801	10/8/1992	--	6.4	7.72	9,244	517	1003	478	17.4	1,832	5,132	229	39.5	14.7	0.0038
0801	1/7/1993	--	6.3	7.28	8,060	555	1030	469	14.1	1,575	4,709	249	42.8	9.9	0.0046
0801	4/7/1993	--	6.4	7.19	8,253	476	955	472	12.1	1,603	4,867	247	43.9	10.2	0.004
0801	7/14/1993	--	6.4	6.93	8,158	555	1011	432	13	1,709	4,887	247	34	14.7	0.0045
0801	10/7/1993	--	6.3	7.08	7,688	525	931	393	12.6	1,641	4,231	229	32	19	0.0035
0801	1/6/1994	--	6.4	6.82	7,788	522	909	438	12.6	1,540	4,519	230	32.3	28.6	0.0043
0801	4/12/1994	--	6.4	6.8	8,786	515	905	415	12.8	1,454	5,061	233	42.7	9.9	0.0027
0801	7/27/1994	--	6.4	7.24	8,502	599	902	382	13.3	1,530	4,930	222	35.6	25.2	0.0042
0801	10/5/1994	--	6.2	7.29	8,093	564	998	440	13.1	1,619	4,544	236	29.9	10.7	0.00325
0801	1/4/1995	--	6.2	6.97	8,714	635	945	425	14.7	1,599	4,925	226	45	9.57	0.00358
0801	4/6/1995	--	6.2	6.7	8,297	560	910	402	13.1	1,652	4,455	258	31.8	10.2	0.00228
0801	7/6/1995	--	6.3	7.64	8,028	535	883	405	13.7	1,627	4,335	230	30.4	8.82	0.00411
0801	10/4/1995	--	6.3	7.29	8,115	535	890	406	12.1	1,619	4,668	212	24.4	11	0.00291
0801	1/3/1996	--	6.5	7.18	7,962	629	952	414	12.3	1,620	4,640	242	16.8	9.91	0.00281
0801	4/2/1996	--	6.5	7.31	8,061	550	1000	408	13	1,623	4,370	224	21.5	9.08	0.00336
0801	7/17/1996	--	6.3	6.79	8,133	527	864	411	15.1	1,532	4,100	241	20.6	8.22	0.00432
0801	10/8/1996	--	6.3	6.97	8,130	554	915	404	13.9	1,520	4,325	233	19.9	4.46	0.0036
0801	1/28/1997	--	6.5	7.73	8,340	555	906	361	13.8	1,678	4,460	324	22.2	3.75	0.00349
0801	4/8/1997	--	6.4	7.57	8,190	562	944	399	14.5	1,520	4,500	232	21.2	6.33	0.0035
0801	7/8/1997	--	6.6	7.43	8,240	575	956	420	15	1,520	4,480	243	21.2	6.43	0.00342

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0801	10/17/1989	-0.1	-0.001	-0.05	-0.01	0.48	-0.05	31	-0.01	0.31	-0.001	-0.1	0.0636	- 2.1	1.6	2.4	3.1
0801	1/11/1990	-0.1	-0.001	-0.05	-0.01	0.13	-0.05	19	-0.1	0.14	-0.001	-0.1	0.057	- 1.7	2.3	-1	4
0801	4/5/1990	-0.1	-0.001	-0.05	-0.01	0.02	-0.05	5.8	-0.1	0.15	0.001	-0.1	0.099	- 1.6	-0.2	-1	1
0801	7/9/1990	0.19	-0.001	-0.05	-0.01	0.08	-0.05	31.6	-0.1	0.17	0.001	-0.1	0.071	- 1.2	-0.2	-1	-1
0801	10/3/1990	-0.1	-0.001	-0.05	-0.01	0.18	-0.05	39.6	-0.1	0.13	-0.001	-0.1	0.037	- 2.0	-0.2	-1	-1
0801	1/3/1991	0.59	-0.001	-0.01	0.01	0.2	-0.05	32.4	-0.1	0.17	-0.001	-0.1	0.0654	- 2.8	-0.2	-1	2
0801	4/11/1991	0.19	-0.001	-0.01	-0.01	0.13	-0.05	30.1	-0.1	0.13	-0.001	-0.1	0.047	- 2.1	-0.2	-1	1
0801	7/11/1991	0.12	-0.001	-0.01	-0.01	0.08	-0.05	32	-0.1	-0.05	0.001	-0.1	0.1228	3.9	-0.2	2.4	2
0801	10/23/1991	0.63	-0.001	-0.01	-0.01	0.09		34	-0.1	0.1	-0.001	-0.1	0.186	5.3	-0.2	-1	-1
0801	1/16/1992	-0.1	-0.001	-0.01	-0.01	0.11	-0.05	32.5	-0.1	0.12	0.005	-0.1	0.031	4.0	-0.2	1.5	-1
0801	4/13/1992	0.18	-0.001	-0.01	-0.01	0.09	-0.05	31.3	-0.1	0.1	0.005	-0.1	0.034	1.5	-0.2	-1	-1
0801	7/8/1992	0.23	-0.001	-0.01	-0.01	0.03	-0.05	24.3	-0.1	-0.05	0.001	-0.1	0.04	- 1.9	-0.2	-1	-1
0801	10/8/1992	0.3	-0.001	-0.01	-0.01	0.06	-0.05	37	-0.1	0.07	-0.001	-0.1	0.022	- 2.7	-0.2	-1	1.9
0801	1/7/1993	-0.1	-0.001	-0.01	-0.01	0.12	-0.05	45.3	-0.1	-0.05	0.006	-0.1	0.03	- 1.7	-0.2	-1	-1
0801	4/7/1993	-0.1	-0.001	-0.001	-0.01	0.11	-0.05	45.1	-0.1	0.16	-0.001	-0.1	0.069	- 1.4	-0.2	1.8	-1
0801	7/14/1993	-0.1	-0.001	-0.01	-0.01	0.08	-0.05	30	-0.1	0.1	-0.001	-0.1	0.028	4.5	-0.2	-1	-1
0801	10/7/1993	-0.1	-0.001	-0.01	-0.01	0.09	-0.05	31.9	-0.1	-0.05	-0.001	-0.1	0.035	4.8	-0.2	-1	2
0801	1/6/1994	0.7	-0.001	-0.01	-0.01	0.09	-0.05	33.4	-0.1	0.09	-0.001	-0.1	0.047	2.3	-0.2	-1	3.9
0801	4/12/1994	0.36	-0.001	-0.01	-0.01	0.12	-0.05	34.3	-0.1	0.15	-0.001	-0.1	0.039	- 1.9	-0.2	3.2	-1
0801	7/27/1994	-0.1	-0.001	-0.01	-0.01	0.1	-0.05	20.5	-0.1	0.09	0.001	-0.1	0.036	6.3	-0.2	1.9	5.5
0801	10/5/1994	0.44	-0.001	-0.01	-0.01	-0.01	-0.05	20.4	-0.1	0.07	-0.001	-0.1	0.036	2.5	-0.2	1	3.5
0801	1/4/1995	0.51	-0.001	-0.01	-0.01	0.06	-0.05	31.5	-0.1	0.09	-0.001	-0.1	0.034	- 2.2	-0.2	-1	2.9
0801	4/6/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	23.4	-0.1	-0.05	-0.001	-0.1	0.039	4.0	-0.2	1.9	5.4
0801	7/6/1995	-0.1	-0.001	-0.01	-0.01	0.03	-0.05	23	-0.1	-0.05	0.001	-0.1	0.0435	3.0	0.3	-1	4.8
0801	10/4/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	18.1	-0.1	-0.05	-0.001	-0.1	0.038	- 2.3	0.6	-1	1.1
0801	1/3/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	18.6	-0.1	-0.05	-0.001	-0.1	0.042	- 2.3	-0.2	3.1	2
0801	4/2/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	17	-0.1	-0.05	-0.001	-0.1	0.063	- 1.3	-0.2	2.9	3
0801	7/17/1996	-0.1	-0.001	-0.01	-0.01	0.01	-0.05	19.5	-0.1	-0.05	-0.001	-0.1	0.051	- 1.9	1.1	-1	1.2
0801	10/8/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	17.1	-0.1	-0.05	-0.001	-0.1	0.046	- 2.3	-0.2	-1	-1
0801	1/28/1997	-0.1	-0.001	-0.01	-0.01	0.02	-0.05	19.4	-0.1	0.06	-0.001	-0.1	0.028	- 3.4	-0.2	6.3	1.2
0801	4/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	20.2	-0.1	-0.05	-0.001	-0.1	0.04	- 1.9	-0.2	-1	-1
0801	7/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	17	-0.1	-0.05	-0.001	-0.1	0.039	4.5	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
0801	10/8/1997	--	6.2	7.51	8,100	568	924	379	13.8	1,520	4,350	273	21.1	5.06	0.00406
0801	1/20/1998	--	6.2	7.72	8,090	553	898	397	14.9	1,500	4,400	269	21	7.07	0.0041
0801	4/7/1998	--	6.5	7.42	8,140	553	915	375	13.3	1,480	4,260	214	20.4	7.42	0.0039
0801	7/7/1998	--	6.6	7.42	8,250	563	969	407	14.1	1,450	4,200	233	22.5	4.86	0.0039
0801	10/6/1998	--	6.4	7.58	8,040	546	924	401	14.7	1,440	4,300	250	23.2	6.56	0.0013
0801	1/12/1999	--	6.5	7.49	8,010	470	858	347	14.3	1,390	4,450	222	20.3	6.05	0.0033
0801	4/13/1999	--	6.4	7.65	7,940	534	902	357	13	1,410	4,060	221	19.8	6.37	0.0039
0801	7/20/1999	--	6.5	7.63	7,950	545	932	414	15.5	1,420	4,240	220	19.7	5.51	0.0035
0801	10/5/1999	--	6.37	7.53	7,500	594	936	352	14.7	1,450	4,300	227	16.2	25.1	0.0023
0801	1/8/2001	6,852.90	6.67	7.7	7,330	578	820	359	16.6	1,570	3,700	240	9.07	48.9	0.0022
0801	2/6/2001	6,853.85	6.9	7.42	7,200	642	882	397	15.8	1,570	3,970	226	9.46	29.9	0.0016
0801	3/5/2001	6,854.30	6.92	7.19	6,610	550	785	273	15.1	1,580	3,660	203	8.34	21.9	0.0023
0801	4/3/2001	6,854.80	6.59	7.37	6,930	615	825	320	12.8	1,570	3,580	214	7.88	17.5	0.00311
0801	5/7/2001	6,855.20	6.47	7.53	7,090	541	723	282	12.6	1,560	3,120	229	7.71	13.3	0.0019
0801	6/4/2001	6,855.20	6.47	7.33	6,680	549	745	294	12.7	1,560	3,380	225	8.12	8.45	0.0033
0801	7/9/2001	6,855.38	7.02	7.11	6,900	585	800	312	12.7	1,610	3,320	237	7.07	6.25	0.0034
0801	8/6/2001	6,855.43	6.76	7.4	6,890	550	760	310	13	1,580	3,300	240	7.5	4.4	0.003
0801	9/10/2001	6,855.80	6.38	7	6,860	560	770	319	13.6	1,600	3,300	248	6.75	-0.1	0.00285
0801	10/1/2001	6,855.75	6.45	7.5	7,060	530	750	330	14.1	1,600	3,200	253	7.2	2.9	0.0024
0801	11/5/2001	6,855.90	6.46	7	7,070	583	805	318	14.3	1,590	3,670	272	7	3.3	0.00282
0801	12/4/2001	6,856.10	6.56	7	7,090	531	734	293	12.3	1,590	3,240	229	7.4	3	0.00203
0801	1/8/2002	6,856.10	6.58	7.2	7,100	620	817	261	13.9	1,570	3,840	274	6.8	2.34	0.0029
0801	2/4/2002	6,856.20	6.45	7.1	7,120	603	790	290	13.6	1,600	3,640	264	6.8	2.08	0.0031
0801	3/4/2002	6,856.15	6.41	7.2	7,070	563	780	354	13.8	1,590	3,720	259	3.6	2.41	0.0027
0801	4/1/2002	6,856.32	6.36	7.33	7,120	583	782	351	15.2	1,600	3,730	249	7.07	2.35	0.0036
0801	5/6/2002	6,856.41	6.35	7.38	7,030	564	762	341	14.4	1,570	3,520	242	6.4	2.34	0.003
0801	6/3/2002	6,856.43	6.33	7.43	7,070	561	754	328	12.2	1,570	3,460	208	6.5	2.13	0.0037
0801	7/8/2002	6,855.81	6.62	7.69	7,050	552	778	257	13.8	1,570	3,570	194	6.3	2.04	0.003
0801	10/8/2002	6,856.12	6.51	7.58	6,960	515	699	328	12.7	1,560	3,260	206	6.4	1.99	0.0032

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0801	10/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	21.8	-0.1	-0.05	-0.001	-0.1	0.039	- 2.0	-0.2	-1	-1
0801	1/20/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	19.7	-0.1	-0.05	-0.001	-0.1	0.043	- 2.3	-0.2	-1	-1
0801	4/7/1998	-0.1	-0.001	0.01	-0.005	-0.01	-0.05	16.5	-0.1	0.75	-0.001	-0.1	0.0439	- 2.2	-0.2	-1	-1
0801	7/7/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	20.8	-0.1	-0.05	-0.001	-0.1	0.0411	3.3	-0.2	-1	-1
0801	10/6/1998	-0.1	-0.001	-0.01	0.005	-0.01	-0.05	17.3	-0.1	-0.05	-0.001	-0.1	0.0262	- 2.2	-0.2	-1	1.3
0801	1/12/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	16.2	-0.1	-0.05	-0.001	-0.1	0.0433	- 1.8	-0.2	-1	-1
0801	4/13/1999	-0.1	-0.001	-0.01	0.006	-0.01	-0.05	17	-0.1	-0.05	-0.001	-0.1	0.0389	- 2.7	-0.2	-1	-1
0801	7/20/1999	-0.1	-0.001	-0.01	-0.006	0.02	-0.05	12.6	-0.1	-0.05	-0.001	-0.1	0.0405	4.6	-0.2	-1	1
0801	10/5/1999	-0.1	-0.001	-0.01	0.006	-0.01	-0.05	16.1	-0.1	-0.05	-0.001	-0.1	0.0527	- 2.1	-0.2	-1	1.4
0801	1/8/2001	-0.1	0.002	-0.01	-0.005	-0.01	-0.05	6.52	-0.1	-0.05	0.001	-0.1	0.087	- 1.2	-0.2	-1	-1
0801	2/6/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	7.28	-0.1	-0.05	-0.001	-0.1	0.071	- 1.5	-0.2	-1	-1
0801	3/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	7.98	-0.1	-0.05	-0.001	-0.1	0.0582	- 1.2	-0.2	-1	-1
0801	4/3/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	7.02	-0.1	-0.05	-0.001	-0.1	0.053	- 1.4	-0.2	-1	-1
0801	5/7/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	8.7	-0.1	-0.05	-0.001	-0.1	0.049	- 1.4	-0.2	-1	-1
0801	6/4/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	8.24	-0.1	-0.05	-0.001	-0.1	0.046	- 1.2	-0.2	-1	-1
0801	7/9/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	8.34	-0.1	-0.05	-0.001	-0.1	0.0486	- 1.8	-0.2	-1	-1
0801	8/6/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	7.7	-0.1	-0.05	-0.001	-0.1	0.048	- 1.4	-0.2	-1	-1
0801	9/10/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	6.24	-0.1	-0.05	-0.001	-0.1	0.044	- 1.3	-0.2	-1	-1
0801	10/1/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	6.87	-0.1	-0.05	-0.001	-0.1	0.0373	- 1.7	-0.2	-1	-1
0801	11/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	7.36	-0.1	-0.05	-0.001	-0.1	0.0374	- 1.4	-0.2	-1	-1
0801	12/4/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	6.57	-0.1	-0.05	-0.001	-0.1	0.0407	- 1.2	-0.2	-1	-1
0801	1/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	6.61	-0.1	-0.05	-0.001	-0.1	0.0422	- 1.3	-0.2	-1	-1
0801	2/4/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	6.69	-0.1	-0.05	-0.001	-0.1	0.0336	- 1.7	-0.2	-1	-1
0801	3/4/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	7.89	-0.1	-0.05	-0.001	-0.1	0.0525	- 1.2	-0.2	-1	-1
0801	4/1/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	7.42	-0.1	-0.05	-0.001	-0.1	0.0423	- 1.2	-0.2	-1	-1
0801	5/6/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	6.84	-0.1	-0.05	-0.001	-0.1	0.0472	- 1.2	-0.2	-1	-1
0801	6/3/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	6.36	-0.1	-0.05	-0.001	-0.1	0.042	- 1.2	-0.2	-1	-1
0801	7/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	5.85	-0.1	-0.05	-0.001	-0.1	0.0488	- 1.3	-0.2	-1	-1
0801	10/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	5.66	-0.1	-0.05	-0.001	-0.1	0.0343	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
0802	10/17/1989	6,874.80	6.5	6.89	6,744	944	519	374	6.7	2,288	2,371	221	0.22	113	-0.001
0802	1/11/1990	--	6.5	6.98	6,978	849	530	350	5.08	2,547	2,663	229	0.17	124	0.0019
0802	4/5/1990	--	6.5	6.8	6,854	877	570	380	5.2	2,416	2,528	230	0.12	128	-0.001
0802	7/9/1990	--	6.6	7.02	6,937	866	605	378	5.6	2,347	2,625	213	-0.05	133	-0.001
0802	10/3/1990	--	6.6	7.18	6,698	944	586	383	5.6	1,940	2,606	224	-0.05	89.7	-0.001
0802	1/3/1991	--	6.5	7.22	6,727	898	649	397	8.6	2,318	2,691	230	0.08	152	-0.001
0802	4/11/1991	--	6.3	7.65	6,711	893	615	382	6.1	2,171	2,561	240	-0.05	165	-0.001
0802	7/11/1991	--	6.4	7.21	7,065	829	624	335	4.6	1,940	2,857	218	-0.08	127	-0.001
0802	10/23/1991	--	6.4	7.41	6,795	800	543	362	4.6	2,250	2,775	237	0.36	99	-0.001
0802	1/16/1992	--	6.3	7.1	6,541	765	657	363	4.4	1,662	2,916	235	0.57	117	-0.001
0802	4/13/1992	--	6.2	6.84	7,383	852	592	393	5.5	2,404	2,730	234	0.09	81.3	-0.001
0802	7/8/1992	--	6.2	7.32	5,929	841	608	445	6.2	1,777	2,615	235	0.16	100	-0.001
0802	10/8/1992	--	6.8	7.21	7,274	809	648	456	8.2	2,245	3,057	228	-0.05	136	-0.001
0802	1/7/1993	--	6.8	7.46	6,306	782	660	397	6	2,150	2,980	236	0.14	105	-0.001
0802	4/7/1993	--	6.5	7.15	6,486	732	644	421	4.1	2,223	3,023	237	0.5	93.9	-0.001
0802	7/14/1993	--	6.4	7	7,413	861	720	393	4.6	2,208	3,183	241	0.32	78.3	-0.001
0802	10/7/1993	--	6.4	6.98	6,416	659	700	354	4.2	1,972	2,935	218	0.39	110	-0.001
0802	1/6/1994	--	6.4	6.75	6,614	749	641	389	4	2,125	3,228	224	1	80.3	-0.001
0802	4/12/1994	--	6.3	6.99	7,568	731	706	367	4.7	2,047	3,596	184	1.24	96.2	-0.001
0802	7/27/1994	--	6.4	7.35	7,680	866	715	355	5.3	2,237	3,484	217	1.03	106	-0.001
0802	10/5/1994	--	6.3	7.45	7,578	790	826	389	5.8	2,288	3,277	225	1.47	97.3	-0.001
0802	1/4/1995	--	6.6	7.29	7,845	853	756	376	6.5	2,323	3,436	240	1.66	86.1	-0.001
0802	4/6/1995	--	6.5	6.75	7,761	786	714	380	5.2	2,269	3,551	268	1.82	93	-0.001
0802	7/6/1995	--	6.4	7.43	7,216	750	735	375	5.8	2,257	3,310	236	1.83	84.6	-0.001
0802	10/4/1995	--	6.5	7.56	7,003	738	754	369	5.3	2,208	3,301	190	2.23	88.4	-0.001
0802	1/3/1996	--	6.4	7.92	7,477	817	805	361	5.5	2,166	3,530	222	1.84	85.8	-0.001
0802	4/2/1996	--	6.4	7.37	7,595	796	845	380	11.4	2,250	3,560	227	1.88	88.4	-0.001
0802	7/17/1996	--	6.3	6.96	7,488	701	723	366	6	2,196	3,164	236	1.6	91.2	0.00121
0802	10/8/1996	--	6.7	7.25	7,600	756	778	357	6.4	2,200	3,291	220	1.7	76.5	-0.001
0802	1/28/1997	--	6.5	7.84	7,350	745	720	301	6	2,142	3,215	317	1.23	79.1	-0.001
0802	4/8/1997	--	6.4	7.44	7,270	756	740	336	6.6	2,090	3,190	240	1.53	80.1	-0.001
0802	7/8/1997	--	6.7	7.38	7,430	786	759	335	6.7	2,140	2,930	236	1.37	82	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0802	10/17/1989	-0.1	-0.001	-0.05	-0.01	0.01	-0.05	0.2	-0.01	-0.05	-0.001	-0.1	0.154	- 1.6	-0.2	-1	1.5
0802	1/11/1990	-0.1	-0.001	-0.05	-0.01	0.04	-0.05	0.21	-0.1	-0.05	-0.001	-0.1	0.164	- 1.3	1.3	-1	1.8
0802	4/5/1990	-0.1	-0.001	-0.05	-0.01	0.02	-0.05	0.21	-0.1	-0.05	-0.001	-0.1	0.128	- 1.7	-0.2	1.2	1.1
0802	7/9/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.23	-0.1	-0.05	0.001	-0.1	0.123	- 1.2	-0.2	-1	-1
0802	10/3/1990	-0.1	0.001	-0.05	-0.01	0.02	-0.05	0.2	-0.1	-0.05	-0.001	-0.1	0.1812	1.4	-0.2	1.4	-1
0802	1/3/1991	-0.1	-0.001	-0.01	0.01	0.01	-0.05	0.23	-0.1	0.05	0.001	-0.1	0.0218	2.0	-0.2	-1	-1
0802	4/11/1991	-0.1	-0.001	-0.01	0.03	0.01	-0.05	0.18	-0.1	-0.05	-0.001	-0.1	0.1568	- 1.2	-0.2	2.1	-1
0802	7/11/1991	-0.1	-0.001	-0.01	-0.01	0.01	-0.05	0.24	-0.1	-0.05	0.001	-0.1	0.1983	- 1.2	-0.2	2.1	-1
0802	10/23/1991	-0.1	-0.001	-0.01	-0.01	0.02		0.28	-0.1	-0.05	-0.001	-0.1	0.22	- 2.3	-0.2	-1	-1
0802	1/16/1992	-0.1	-0.001	-0.01	-0.01	0.02	-0.05	0.35	-0.1	-0.05	-0.001	-0.1	0.144	- 1.5	-0.2	-1	-1
0802	4/13/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.44	-0.1	-0.05	0.004	-0.1	0.045	- 1.2	-0.2	2.7	-1
0802	7/8/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.4	-0.1	-0.05	0.001	-0.1	0.14	5.6	-0.2	-1	1.5
0802	10/8/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.4	-0.1	-0.05	0.002	-0.1	0.124	- 1.8	-0.2	-1	-1
0802	1/7/1993	-0.1	-0.001	-0.01	-0.01	0.01	-0.05	0.44	-0.1	-0.05	0.006	-0.1	0.127	- 1.2	-0.2	-1	-1
0802	4/7/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.57	-0.1	-0.05	0.001	-0.1	0.249	- 1.2	-0.2	-1	-1
0802	7/14/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.53	-0.1	-0.05	0.003	-0.1	0.154	- 1.5	-0.2	-1	-1
0802	10/7/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.52	-0.1	-0.05	0.004	-0.1	0.143	4.8	-0.2	1.6	-1
0802	1/6/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.55	-0.1	-0.05	-0.001	-0.1	0.148	2.1	-0.2	-1	3.9
0802	4/12/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.72	-0.1	-0.05	0.001	-0.1	0.176	- 1.2	-0.2	-1	-1
0802	7/27/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.57	-0.1	-0.05	0.003	-0.1	0.165	- 1.8	-0.2	-1	-1
0802	10/5/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.57	-0.1	-0.05	-0.001	-0.1	0.153	- 1.8	-0.2	-1	-1
0802	1/4/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.78	-0.1	-0.05	-0.001	-0.1	0.142	2.6	-0.2	-1	3.9
0802	4/6/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.76	-0.1	-0.05	-0.001	-0.1	0.159	- 1.2	-0.2	2.6	-1
0802	7/6/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.69	-0.1	-0.05	0.002	-0.1	0.1883	- 1.3	-0.2	-1	1.5
0802	10/4/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.73	-0.1	-0.05	0.024	-0.1	0.157	- 1.3	-0.2	-1	1.4
0802	1/3/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.09	-0.1	-0.05	0.022	-0.1	0.168	- 1.4	-0.2	3.6	-1
0802	4/2/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.8	-0.1	-0.05	-0.001	-0.1	0.167	- 1.2	-0.2	-1	1.2
0802	7/17/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.81	-0.1	-0.05	-0.001	-0.1	0.086	- 1.2	-0.2	-1	-1
0802	10/8/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.06	-0.1	-0.05	-0.001	-0.1	0.171	- 1.5	-0.2	-1	-1
0802	1/28/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.93	-0.1	-0.05	-0.001	-0.1	0.171	- 1.2	-0.2	-1	-1
0802	4/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.98	-0.1	-0.05	0.021	-0.1	0.181	- 2.4	-0.2	-1	1.9
0802	7/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.97	-0.1	-0.05	-0.001	-0.1	0.018	- 1.6	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
EPA Standard		NA	NA	NA	4,800	NA	NA	NA	NA	NA	2,125	250	NA	190	NA
0802	10/8/1997	--	6.5	7.45	7,330	789	750	336	6.35	2,160	3,050	252	1.38	82.8	-0.001
0802	1/20/1998	--	6.2	7.72	7,320	766	721	356	7.6	2,120	3,350	242	1.49	83.3	-0.001
0802	4/7/1998	--	6.6	7.3	7,310	776	723	340	6.7	2,120	3,010	212	1.2	90.8	0.0012
0802	7/7/1998	--	6.8	7.42	7,350	758	726	348	6.6	2,180	2,900	224	1.26	86.6	0.001
0802	10/6/1998	--	6.43	7.64	7,340	796	757	361	7.2	2,110	3,230	210	1.13	85.4	0.0015
0802	1/12/1999	--	6.6	7.55	7,190	734	686	298	7.4	2,110	3,260	207	1.28	88.1	-0.001
0802	4/13/1999	--	6.4	7.65	7,320	783	732	323	6.8	2,090	3,060	205	1.23	86.2	0.0015
0802	7/20/1999	--	6.5	7.58	7,350	760	743	370	9.8	2,120	3,160	207	1.18	76.2	0.0014
0802	10/12/1999	--	6.62	7.66	7,360	703	695	311	6.4	2,120	2,920	194	1.09	76.9	0.0014
0802	1/11/2000	--	6.5	7.73	7,350	732	734	298	9.5	2,100	3,120	195	1.06	119	0.0016
0802	5/2/2000	--	6.7	7.55	7,170	651	643	290	9.1	2,047	2,920	174	1.24	81.2	0.0015
0802	7/12/2000	6,841.60	6.55	7.33	7,030	699	700	297	12.1	2,020	2,870	174	0.91	42	-0.001
0802	10/4/2000	6,842.00	6.37	7.01	7,250	732	758	327	9	2,050	3,170	201	1.06	79.7	0.002
0802	1/8/2001	6,857.50	6.43	7.69	7,360	751	758	300	8.2	2,180	3,190	203	1.2	89.3	0.0022
0802	2/5/2001	6,860.50	6.49	7.1	6,910	739	834	348	8.2	2,050	3,160	200	1.02	93.8	0.0026
0802	3/5/2001	6,861.00	6.64	7.17	6,120	737	661	370	8	2,000	2,850	158	0.12	103	0.0015
0802	4/9/2001	6,861.60	6.86	7.24	6,400	847	671	263	6.6	2,050	2,840	180	0.06	111	-0.001
0802	5/7/2001	6,861.65	6.42	7.23	6,660	737	608	257	6	2,020	2,420	193	0.08	102	-0.001
0802	6/4/2001	6,861.95	6.46	7.16	6,200	729	591	231	6.3	1,960	2,520	190	0.1	101	0.0013
0802	7/9/2001	6,862.10	7.07	7.06	6,580	794	651	274	5.4	2,060	2,520	216	0.07	114	0.001
0802	8/6/2001	6,862.08	6.43	7.2	6,630	740	620	260	8	2,050	2,500	240	-0.05	97.5	-0.001
0802	9/10/2001	6,862.30	6.37	6.9	6,400	770	600	284	5.6	2,100	2,400	216	-0.05	100	-0.001
0802	10/1/2001	6,862.35	6.44	7.4	6,620	730	590	290	6.4	2,080	2,400	225	0.06	97.5	-0.001
0802	11/5/2001	6,862.55	6.44	7.5	6,660	786	618	304	6.3	2,050	2,640	227	-0.05	114	-0.001
0802	12/3/2001	6,862.65	6.56	7.5	6,710	750	587	256	5.9	2,060	2,450	214	0.09	121	-0.001
0802	1/7/2002	6,862.70	6.56	7.1	6,750	874	646	226	8.2	2,030	2,850	232	0.05	98	0.0012
0802	2/4/2002	6,862.80	6.5	7.2	6,820	849	626	284	7	2,070	2,750	239	0.13	100	0.0011
0802	3/4/2002	6,862.75	6.48	7.1	6,800	806	633	323	6	2,030	2,880	217	0.08	108	0.0013
0802	4/1/2002	6,862.98	6.38	7.08	6,900	840	648	326	7.7	2,080	2,980	212	0.06	98.1	0.0016
0802	5/6/2002	6,862.02	6.36	7.24	7,050	815	643	302	7.8	2,090	2,790	215	0.05	107	0.0019
0802	6/3/2002	6,863.05	6.34	7.94	7,430	859	705	299	6.6	2,160	3,090	196	0.08	103	0.003
0802	7/8/2002	6,862.81	6.41	7.84	7,470	830	720	265	7.7	2,190	3,150	227	0.2	99.1	0.0026

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0802	10/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.26	-0.1	-0.05	-0.001	-0.1	0.176	- 1.2	-0.2	-1	-1
0802	1/20/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.25	-0.1	-0.05	-0.001	-0.1	0.198	- 1.2	-0.2	-1	-1
0802	4/7/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.18	-0.1	-0.05	-0.001	-0.1	0.186	- 1.2	-0.2	-1	-1
0802	7/7/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.19	-0.1	-0.05	-0.001	-0.1	0.208	- 1.6	-0.2	-1	-1
0802	10/6/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.2	-0.1	-0.05	0.001	-0.1	0.207	- 1.2	-0.2	-1	-1
0802	1/12/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.29	-0.1	-0.05	-0.001	-0.1	0.211	- 1.2	-0.2	-1	-1
0802	4/13/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.48	-0.1	-0.05	-0.001	-0.1	0.19	- 1.2	-0.2	-1	-1
0802	7/20/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.13	-0.1	-0.05	-0.001	-0.1	0.196	- 1.5	-0.2	-1	1
0802	10/12/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.37	-0.1	-0.05	-0.001	-0.1	0.203	- 1.2	-0.2	-1	-1
0802	1/11/2000	0.12	-0.001	-0.01	-0.005	-0.01	-0.05	1.83	-0.1	0.05	0.001	-0.1	0.18	- 1.2	-0.2	-1	-1
0802	5/2/2000	0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.27	-0.1	-0.05	0.001	-0.1	0.193	- 2.3	-0.2	-1	-1
0802	7/12/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.52	-0.1	-0.05	-0.001	-0.1	0.098	- 1.2	-0.2	-1	-1
0802	10/4/2000	-0.1	0.001	-0.01	-0.005	-0.01	-0.05	1.97	-0.1	-0.05	-0.001	-0.1	0.168	- 1.2	-0.2	-1	-1
0802	1/8/2001	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	2.73	-0.1	-0.05	0.004	-0.1	0.193	- 3.8	-0.2	-1	-1
0802	2/5/2001	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	3.34	-0.1	-0.05	0.001	-0.1	0.159	- 1.4	-0.2	-1	-1
0802	3/5/2001	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	0.96	-0.1	-0.05	0.001	-0.1	0.165	- 3.1	-0.2	-1	-1
0802	4/9/2001	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	0.64	-0.1	-0.05	-0.001	-0.1	0.17	- 1.2	-0.2	-1	-1
0802	5/7/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.6	-0.1	-0.05	0.001	-0.1	0.181	- 1.2	-0.2	-1	-1
0802	6/4/2001	-0.1	0.001	-0.01	-0.005	-0.01	-0.05	0.62	-0.1	-0.05	0.011	-0.1	0.214	- 1.2	-0.2	-1	-1
0802	7/9/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.6	-0.1	-0.05	0.001	-0.1	0.221	- 1.2	-0.2	-1	-1
0802	8/6/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.65	-0.1	-0.05	-0.001	-0.1	0.23	- 1.2	-0.2	-1	-1
0802	9/10/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.68	-0.1	-0.05	-0.001	-0.1	0.25	3.0	-0.2	-1	-1
0802	10/1/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.57	-0.1	-0.05	-0.001	-0.1	0.244	1.8	-0.2	-1	-1
0802	11/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.62	-0.1	-0.05	-0.001	-0.1	0.219	- 1.3	-0.2	-1	-1
0802	12/3/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.55	-0.1	-0.05	-0.001	-0.1	0.222	- 1.8	-0.2	-1	-1
0802	1/7/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.58	-0.1	-0.05	-0.001	-0.1	0.225	- 1.4	-0.2	-1	-1
0802	2/4/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.63	-0.1	-0.05	-0.001	-0.1	0.222	- 1.2	-0.2	-1	-1
0802	3/4/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.71	-0.1	-0.05	-0.001	-0.1	0.249	- 1.9	-0.2	-1	-1
0802	4/1/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.7	-0.1	-0.05	-0.001	-0.1	0.223	- 1.2	-0.2	-1	-1
0802	5/6/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.7	-0.1	-0.05	-0.001	-0.1	0.227	- 1.2	-0.2	-1	-1
0802	6/3/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.53	-0.1	-0.05	-0.001	-0.1	0.199	- 1.2	-0.2	-1	-1
0802	7/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.55	-0.1	-0.05	-0.001	-0.1	0.248	- 1.5	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
0802	10/7/2002	6,862.55	6.33	7.99	5,680	774	710	317	6.2	2,140	3,060	187	0.08	95.2	0.0035

TAb... A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0802	10/7/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.65	-0.1	-0.05	-0.001	-0.1	0.205	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
0803	10/17/1989	6,880.40	6.7	6.91	4,852	722	337	208	12.2	1,379	2,258	108	1.75	34	-0.001
0803	1/11/1990	--	6.6	7.16	5,212	769	371	241	9.75	1,647	2,387	133	1.29	36	-0.001
0803	4/5/1990	--	6.7	7.02	5,394	822	410	245	9.4	1,696	2,321	138	1.35	42	-0.001
0803	7/9/1990	--	6.6	7.18	5,416	891	417	233	9.8	1,625	2,382	127	0.92	42.2	-0.001
0803	10/3/1990	--	6.5	7.29	5,618	861	336	245	12	1,659	2,299	151	0.36	40	-0.001
0803	1/3/1991	--	6.6	7.25	5,305	779	384	256	31.8	1,598	2,439	144	1.41	57.5	-0.001
0803	4/11/1991	--	6.5	7.65	5,244	820	416	263	11.3	1,702	2,376	158	0.85	63	-0.001
0803	7/11/1991	--	6.5	7.27	5,616	745	349	219	9.1	1,690	2,547	195	0.89	71.3	-0.001
0803	10/23/1991	--	6.6	7.39	5,402	786	448	263	9.5	1,273	2,446	174	1.25	35.3	-0.001
0803	1/16/1992	--	6.5	7.19	5,155	706	398	255	9.8	1,375	2,451	160	1.66	51.8	-0.001
0803	4/13/1992	--	6.3	7.01	5,265	685	360	242	10.3	1,571	2,346	180	1.87	19.1	-0.001
0803	7/8/1992	--	6.2	7.46	4,617	804	384	272	11.5	1,611	2,192	137	1.9	25.4	-0.001
0803	10/8/1992	--	6.5	7.79	5,982	827	464	347	14	1,952	2,661	185	0.75	15.7	-0.001
0803	1/7/1993	--	6.3	7.32	5,851	851	430	305	12.1	1,879	2,522	185	1.08	38.8	-0.001
0803	4/7/1993	--	6.4	7.14	5,631	773	481	324	8.7	1,806	2,666	176	0.9	45.3	-0.001
0803	7/14/1993	--	6.6	7.24	5,726	895	452	303	9.8	1,878	2,833	178	1.09	21.7	-0.001
0803	10/7/1993	--	6.5	7.2	5,445	821	451	262	10.2	2,000	2,482	174	1.12	33.4	-0.001
0803	1/6/1994	--	6.7	7.12	5,648	776	460	307	9.2	1,656	2,754	170	0.92	31.6	-0.001
0803	4/12/1994	--	6.5	7.1	6,510	770	519	292	9.9	1,743	3,205	175	1.03	28	-0.001
0803	7/27/1994	--	6.5	7.41	6,003	909	456	303	11.3	1,890	2,956	172	0.74	24	-0.001
0803	10/5/1994	--	6.3	7.49	5,943	846	503	302	10.6	1,845	2,713	163	1.28	31.3	-0.001
0803	1/4/1995	--	6.4	7.16	6,350	928	539	300	12.1	1,948	2,885	184	1.12	34.3	-0.001
0803	4/6/1995	--	6.4	6.73	6,220	810	498	281	10.1	1,935	3,018	196	1.03	22.7	-0.001
0803	7/6/1995	--	6.5	7.41	6,150	840	535	305	11.2	1,848	2,870	198	0.88	30.7	-0.001
0803	10/4/1995	--	6.8	7.36	6,000	786	556	284	9.9	2,017	2,840	180	1.09	33.6	-0.001
0803	1/3/1996	--	6.5	7.16	6,427	893	609	307	10.3	1,929	3,160	174	0.62	30.6	-0.001
0803	4/2/1996	--	6.6	7.43	6,557	831	639	310	10.8	2,014	3,160	198	0.66	32.5	-0.001
0803	7/17/1996	--	6.3	6.7	6,277	735	490	287	11.2	1,967	2,869	184	0.98	29	-0.001
0803	10/8/1996	--	6.4	7.03	6,930	809	675	310	11.5	2,022	3,202	173	0.52	33.2	-0.001
0803	1/28/1997	--	6.5	7.87	6,250	795	550	251	10.9	1,847	3,178	229	0.99	25.6	-0.001
0803	4/8/1997	--	6.4	7.52	6,130	804	559	258	11.2	1,800	2,914	181	1.21	25.4	-0.001
0803	7/8/1997	--	6.6	7.39	6,240	830	575	335	6.7	1,790	2,930	236	1.15	24.9	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0803	10/17/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	1.8	-0.01	-0.05	-0.001	-0.1	0.206	- 1.2	-0.2	-1	1
0803	1/11/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	1.5	-0.1	-0.05	-0.001	-0.1	0.116	- 2.1	1.3	-1	1.6
0803	4/5/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	1	-0.1	-0.05	-0.001	-0.1	0.09	- 1.5	-0.2	-1	0.9
0803	7/9/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.98	-0.1	-0.05	-0.001	-0.1	0.135	- 1.2	-0.2	-1	-1
0803	10/3/1990	-0.1	-0.001	-0.05	-0.01	0.01	-0.05	0.9	-0.1	-0.05	-0.001	-0.1	0.1711	- 1.2	-0.2	-1	-1
0803	1/3/1991	-0.1	-0.001	-0.01	0.01	0.01	-0.05	1	-0.1	-0.05	-0.001	-0.1	0.1292	- 1.9	-0.2	-1	-1
0803	4/11/1991	-0.1	-0.001	-0.01	-0.01	0.02	-0.05	0.82	-0.1	-0.05	-0.001	-0.1	0.0853	- 1.6	-0.2	-1	-1
0803	7/11/1991	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.58	-0.1	-0.05	0.007	-0.1	0.1322	- 1.3	-0.2	-1	-1
0803	10/23/1991	-0.1	-0.001	-0.01	-0.01	0.02		0.57	-0.1	-0.05	-0.001	-0.1	0.135	- 2.6	-0.2	-1	-1
0803	1/16/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.47	-0.1	-0.05	0.003	-0.1	0.056	- 1.3	-0.2	-1	-1
0803	4/13/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.43	-0.1	-0.05	0.002	-0.1	0.138	- 1.2	-0.2	-1	-1
0803	7/8/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.3	-0.1	-0.05	-0.001	-0.1	0.04	- 1.3	-0.2	-1	-1
0803	10/8/1992	-0.1	-0.001	-0.01	-0.01	0.01	-0.05	0.61	-0.1	-0.05	-0.001	-0.1	0.068	- 1.8	-0.2	-1	-1
0803	1/7/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.64	-0.1	-0.05	0.003	-0.1	0.085	- 1.2	-0.2	1.2	-1
0803	4/7/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.98	-0.1	-0.05	-0.001	-0.1	0.17	- 1.3	-0.2	-1	-1
0803	7/14/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.03	-0.1	-0.05	-0.001	-0.1	0.062	- 1.6	-0.2	-1	-1
0803	10/7/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.12	-0.1	-0.05	-0.001	-0.1	0.069	8.2	-0.2	-1	-1
0803	1/6/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.92	-0.1	-0.05	-0.001	-0.1	0.07	- 1.5	-0.2	-1	-1
0803	4/12/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.72	-0.1	-0.05	-0.001	-0.1	0.1	- 1.6	-0.2	3.2	-1
0803	7/27/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.17	-0.1	-0.05	0.004	-0.1	0.108	6.3	-0.2	-1	1.4
0803	10/5/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.34	-0.1	-0.05	-0.001	-0.1	0.068	- 1.2	-0.2	2.2	-1
0803	1/4/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.08	-0.1	-0.05	-0.001	-0.1	0.071	- 1.8	-0.2	-1	-1
0803	4/6/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.1	-0.1	-0.05	-0.001	-0.1	0.074	- 1.2	-0.2	1.1	-1
0803	7/6/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.16	-0.1	-0.05	0.001	-0.1	0.086	- 1.2	-0.2	-1	1.3
0803	10/4/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.07	-0.1	-0.05	0.002	-0.1	0.079	- 1.2	-0.2	-1	-1
0803	1/3/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.17	-0.1	-0.05	0.002	-0.1	0.083	1.2	0.3	1.5	1
0803	4/2/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.14	-0.1	-0.05	-0.001	-0.1	0.082	- 1.2	-0.2	-1	-1
0803	7/17/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.52	-0.1	-0.05	-0.001	-0.1	0.068	- 1.4	-0.2	-1	-1
0803	10/8/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.14	-0.1	-0.05	-0.001	-0.1	0.079	- 1.2	-0.2	-1	-1
0803	1/28/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.53	-0.1	-0.05	-0.001	-0.1	0.056	- 1.2	-0.2	-1	-1
0803	4/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.7	-0.1	-0.05	0.002	-0.1	0.069	- 1.2	-0.2	-1	-1
0803	7/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.97	-0.1	-0.05	-0.001	-0.1	0.067	- 1.9	-0.2	-1	-1

TAB A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
EPA Standard		NA	NA	NA	4,800	NA	NA	NA	NA	NA	2,125	250	NA	190	NA
0803	10/8/1997	--	6.3	7.6	6,760	821	649	298	11.7	1,990	2,970	168	0.58	33.9	-0.001
0803	1/20/1998	--	6.3	7.75	6,840	798	648	309	13	2,000	3,400	218	0.76	38.7	-0.001
0803	4/7/1998	--	6.5	7.4	6,870	802	657	296	11.5	1,990	3,010	181	0.56	35.8	-0.001
0803	7/7/1998	--	6.4	7.4	6,940	785	667	310	11.9	2,020	3,000	198	0.64	51.8	-0.001
0803	10/6/1998	--	6.44	7.56	6,880	818	695	302	12.5	1,980	3,200	193	0.6	39.4	-0.001
0803	1/12/1999	--	6.6	7.63	6,980	745	642	272	11.9	1,990	3,300	184	0.71	39.1	-0.001
0803	4/13/1999	--	6.5	7.65	6,910	801	692	280	11.5	1,960	3,100	178	0.77	40.9	-0.001
0803	10/12/1999	--	6.58	7.78	6,990	731	671	260	11.5	2,000	3,040	175	0.78	37.5	-0.001
0803	1/11/2000	--	6.6	7.66	7,020	750	693	262	14.4	2,000	3,180	176	0.8	35.7	-0.001
0803	5/2/2000	--	6.7	7.58	7,050	670	637	256	13.5	2,000	3,030	161	0.86	42.8	-0.001
0803	7/12/2000	6,835.50	6.71	7.4	7,250	712	737	328	6.76	2,050	2,890	184	1.24	77.5	0.0017
0803	10/4/2000	6,834.50	6.65	7.31	7,060	742	750	296	14.1	2,010	3,260	175	0.85	45.6	-0.001
0803	1/8/2001	6,839.90	6.5	7.78	7,010	739	730	277	12.5	1,970	3,240	178	1.06	46.3	-0.001
0803	2/5/2001	6,863.35	6.38	7.11	6,820	826	784	268	13	1,830	3,380	163	0.67	40.7	-0.001
0803	3/5/2001	6,863.60	6.67	7.14	6,810	726	716	320	12.4	1,770	3,320	129	0.73	39.1	-0.001
0803	4/9/2001	6,864.10	6.4	7.01	6,630	798	768	222	12.1	1,790	3,460	149	0.81	43.9	-0.001
0803	5/7/2001	6,863.95	6.43	7.3	7,040	696	713	217	11.5	1,760	2,980	159	0.74	46.9	-0.001
0803	6/4/2001	6,864.40	6.45	7.17	6,750	700	723	202	11.6	1,790	3,280	164	0.84	47.8	-0.001
0803	7/9/2001	6,864.30	6.95	6.96	6,980	751	793	217	11.5	1,820	3,160	190	0.49	66	-0.001
0803	8/6/2001	6,864.25	6.38	7.2	6,950	690	730	220	12	1,820	3,000	200	0.4	57.6	-0.001
0803	9/10/2001	6,864.40	6.49	7.3	6,910	700	750	241	11.6	1,900	3,100	186	0.39	57.4	-0.001
0803	10/1/2001	6,864.45	6.4	7.2	6,940	670	710	231	12	1,880	2,800	215	0.45	56.4	-0.001
0803	11/5/2001	6,864.75	6.4	7.4	7,030	730	765	236	12.7	1,830	3,310	218	0.54	64	-0.001
0803	12/3/2001	6,864.75	6.41	7.4	7,120	688	726	221	11.9	1,870	3,020	191	0.65	62	-0.001
0803	1/7/2002	6,864.75	6.46	7	6,920	799	744	170	11.8	1,830	3,350	181	0.56	53.5	-0.001
0803	2/4/2002	6,864.80	6.46	7.3	7,000	775	738	246	11.9	1,900	3,250	191	0.7	51.1	-0.001
0803	3/4/2002	6,864.70	6.42	7.2	7,030	734	745	271	11.9	1,880	3,390	190	0.64	55.3	-0.001
0803	4/1/2002	6,864.92	6.34	7.85	7,070	770	761	274	13.7	1,880	3,480	197	0.73	51.2	0.001
0803	5/6/2002	6,864.95	6.37	7.13	7,010	734	718	259	12.5	1,890	3,140	182	0.72	55.4	-0.001
0803	6/3/2002	6,865.10	6.32	7.44	7,130	749	743	240	11	1,910	3,250	165	0.86	52.7	0.0012
0803	7/8/2002	6,864.68	6.38	7.6	7,110	711	725	214	10.9	1,890	3,150	148	0.78	51.3	-0.001
0803	10/8/2002	6,864.60	6.33	7.44	5,300	678	690	244	11.3	1,880	3,060	163	1.04	55.2	0.0011

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0803	10/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.38	-0.1	-0.05	-0.001	-0.1	0.081	- 1.2	-0.2	-1	-1
0803	1/20/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.59	-0.1	-0.05	-0.001	-0.1	0.094	- 1.2	-0.2	-1	-1
0803	4/7/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.43	-0.1	-0.05	0.001	-0.1	0.0901	- 1.2	-0.2	-1	-1
0803	7/7/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.52	-0.1	-0.05	-0.001	-0.1	0.0974	- 1.2	-0.2	-1	-1
0803	10/6/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.42	-0.1	-0.05	-0.001	-0.1	0.0976	- 1.2	-0.2	-1	-1
0803	1/12/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.47	-0.1	-0.05	-0.001	-0.1	0.0984	- 1.2	-0.2	-1	-1
0803	4/13/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.55	-0.1	-0.05	-0.001	-0.1	0.0889	- 1.2	-0.2	-1	-1
0803	10/12/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.62	-0.1	-0.05	-0.001	-0.1	0.0919	- 1.2	-0.2	-1	-1
0803	1/11/2000	0.12	-0.001	-0.01	-0.005	-0.01	-0.05	1.69	-0.1	0.05	0.001	-0.1	0.0891	- 1.6	-0.2	-1	-1
0803	5/2/2000	0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.27	-0.1	-0.05	-0.001	-0.1	0.193	3.1	-0.2	-1	-1
0803	7/12/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.95	-0.1	-0.05	-0.001	-0.1	0.197	- 1.4	-0.2	-1	-1
0803	10/4/2000	-0.1	-0.001	-0.01	-0.005	0.02	-0.05	1.76	-0.1	-0.05	-0.001	-0.1	0.0841	1.8	-0.2	-1	-1
0803	1/8/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.91	-0.1	-0.05	0.001	-0.1	0.09	- 3.0	-0.2	-1	-1
0803	2/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.37	-0.1	-0.05	0.001	-0.1	0.1	- 1.6	-0.2		-1
0803	3/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.75	-0.1	0.05	0.001	-0.1	0.0874	- 2.4	-0.2	-1	-1
0803	4/9/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.29	-0.1	-0.05	-0.001	-0.1	0.1	- 1.2	-0.2	-1	-1
0803	5/7/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.13	-0.1	-0.05	-0.001	-0.1	0.093	- 1.2	-0.2	-1	-1
0803	6/4/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.34	-0.1	-0.05	0.004	-0.1	0.086	- 1.4	-0.2	-1	-1
0803	7/9/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.69	-0.1	-0.05	-0.001	-0.1	0.136	- 1.2	-0.2	-1	-1
0803	8/6/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.1	-0.1	-0.05	-0.001	-0.1	0.16	- 1.2	-0.2	-1	-1
0803	9/10/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.8	-0.1	-0.05	-0.001	-0.1	0.125	- 1.3	-0.2	-1	-1
0803	10/1/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.6	-0.1	-0.05	-0.001	-0.1	0.148	- 1.8	-0.2	-1	-1
0803	11/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.61	-0.1	-0.05	-0.001	-0.1	0.134	- 1.2	-0.2	-1	-1
0803	12/3/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.4	-0.1	-0.05	-0.001	-0.1	0.128	- 1.2	-0.2	-1	-1
0803	1/7/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.57	-0.1	-0.05	-0.001	-0.1	0.167	- 2.0	-0.2	-1	-1
0803	2/4/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.63	-0.1	-0.05	-0.001	-0.1	0.149	- 1.2	-0.2	-1	-1
0803	3/4/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.97	-0.1	-0.05	-0.001	-0.1	0.166	- 2.7	-0.2	-1	-1
0803	4/1/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.77	-0.1	-0.05	-0.001	-0.1	0.152	- 2.4	-0.2	-1	-1
0803	5/6/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.87	-0.1	-0.05	-0.001	-0.1	0.174	- 1.2	-0.2	-1	-1
0803	6/3/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.8	-0.1	-0.05	-0.001	-0.1	0.153	- 1.2	-0.2	-1	-1
0803	7/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.77	-0.1	-0.05	-0.001	-0.1	0.201	- 1.4	-0.2	-1	-1
0803	10/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.6	-0.1	-0.05	-0.001	-0.1	0.132	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
0804	7/7/1995	6,860.30		7.3	6,096	660	595	402	6.5	1,715	2,673	277	1.19	34.8	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0804	7/7/1995	-0.1	0.002	-0.01	-0.01	-0.01	-0.05	0.48	-0.1	-0.05	-0.001	-0.1	0.0916	- 3.7	-0.2	-1	5.3

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
0808	1/8/2001	6,853.00	6.34	7.14	7,470	720	721	382	14.5	2,080	3,400	233	16	26	0.0014
0808	2/5/2001	6,863.60	6.46	7.04	5,820	879	489	295	13.2	2,040	2,740	185	4.99	-0.1	-0.001
0808	3/5/2001	6,863.85	6.65	7.43	5,480	879	482	377	12.1	2,100	2,580	213	5.01	-0.1	-0.001
0808	4/9/2001	6,864.40	6.65	7.04	6,030	841	468	312	11.6	2,130	2,480	247	6.39	-0.1	-0.001
0808	5/7/2001	6,864.20	6.44	7.4	6,600	797	577	359	8.6	2,210	2,540	216	1.66	60.2	-0.001
0808	6/5/2001	6,864.50	6.54	6.95	6,680	843	582	361	9.2	2,280	2,790	238	2.11	32.4	0.0018
0808	7/9/2001	6,864.70	7.05	7.17	6,870	830	710	320	6.3	1,940	2,800	246	0.16	119	0.0033
0808	8/6/2001	6,864.55	6.4	7.2	6,860	700	620	290	7.5	1,950	2,500	210	0.09	116	0.0029
0808	9/10/2001	6,864.75	6.4	7.2	6,750	720	610	300	6.1	1,960	2,500	150	0.41	140	0.0029
0808	10/1/2001	6,864.80	6.47	7.4	6,780	720	630	214	6.5	1,970	2,400	165	0.08	122	0.0024
0808	11/5/2001	6,865.00	6.48	7.5	6,800	782	656	280	7.6	1,900	2,750	237	0.06	142	0.0031
0808	12/3/2001	6,865.10	6.53	7.5	6,780	726	605	244	6.7	1,940	2,460	212	0.11	147	0.0024
0808	1/7/2002	6,865.05	6.53	7.2	6,810	854	670	232	8.7	1,910	2,870	230	0.05	117	0.0034
0808	2/4/2002	6,865.10	6.52	7.3	6,830	829	649	265	7.7	1,960	2,750	226	0.08	118	0.0033
0808	3/4/2002	6,865.05	6.49	7.3	6,710	788	652	308	6.4	1,920	2,890	207	0.08	122	0.0036
0808	4/1/2002	6,865.31	6.36	7.84	6,820	810	663	310	7.4	1,930	2,930	207	0.07	117	0.0041
0808	5/6/2002	6,865.34	6.39	7.15	6,900	773	644	287	7.6	1,950	2,690	208	0.16	125	0.004
0808	6/3/2002	6,865.45	6.35	7.36	6,810	781	655	270	5.9	1,960	2,750	173	0.09	120	0.0048
0808	7/8/2002	6,865.08	6.46	7.63	6,950	782	682	230	7.3	1,960	2,850	173	0.15	115	0.0042
0808	10/7/2002	6,864.81	6.38	7.19	5,260	705	620	290	5.2	1,970	2,630	168	-0.05	113	0.005

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0808	1/8/2001	6.02	0.001	-0.01	-0.005	0.13	-0.05	18.1	-0.1	0.09	0.001	-0.1	0.082	- 1.2	-0.2	-1	-1
0808	2/5/2001	0.11	-0.001	-0.01	-0.005	0.02	-0.05	2.61	-0.1	-0.05	-0.001	-0.1	0.0338	2.5	-0.2	-1	-1
0808	3/5/2001	-0.1	-0.001	-0.01	-0.005	0.02	-0.05	3.18	-0.1	-0.05	-0.001	-0.1	0.0338	- 1.2	-0.2	-1	-1
0808	4/9/2001	0.11	-0.001	-0.01	-0.005	0.03	-0.05	4	-0.1	-0.05	-0.001	-0.1	0.034	- 1.4	-0.2	-1	-1
0808	5/7/2001	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	1.91	-0.1	-0.05	-0.001	-0.1	0.074	- 1.2	-0.2	-1	-1
0808	6/5/2001	0.2	-0.001	-0.01	-0.005	-0.01	-0.05	1.47	-0.1	-0.05	-0.001	-0.1	0.059	- 1.2	-0.2	-1	-1
0808	7/9/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.69	-0.1	-0.05	0.001	-0.1	0.165	- 1.2	-0.2	-1	-1
0808	8/6/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.71	-0.1	-0.05	-0.001	-0.1	0.194	- 1.2	-0.2	-1	-1
0808	9/10/2001	0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.97	-0.1	-0.05	-0.001	-0.1	0.253	3.7	-0.2	-1	-1
0808	10/1/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.55	-0.1	-0.05	-0.001	-0.1	0.157	- 1.3	-0.2	-1	-1
0808	11/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.61	-0.1	-0.05	-0.001	-0.1	0.14	- 1.2	-0.2	-1	-1
0808	12/3/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.56	-0.1	-0.05	-0.001	-0.1	0.147	- 1.2	-0.2	-1	-1
0808	1/7/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.59	-0.1	-0.05	-0.001	-0.1	0.138	- 1.2	-0.2	-1	-1
0808	2/4/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.64	-0.1	-0.05	-0.001	-0.1	0.145	- 1.2	-0.2	-1	-1
0808	3/4/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.69	-0.1	-0.05	-0.001	-0.1	0.162	- 1.2	-0.2	-1	-1
0808	4/1/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.7	-0.1	-0.05	-0.001	-0.1	0.15	- 1.2	-0.2	-1	-1
0808	5/6/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.71	-0.1	-0.05	-0.001	-0.1	0.148	- 1.2	-0.2	-1	-1
0808	6/3/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.65	-0.1	-0.05	-0.001	-0.1	0.142	- 1.2	-0.2	-1	-1
0808	7/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.64	-0.1	-0.05	-0.001	-0.1	0.169	- 1.3	-0.2	-1	-1
0808	10/7/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.65	-0.1	-0.05	-0.001	-0.1	0.115	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
0808 filtr	6/5/2001	6,864.50	6.46	6.9	6,900	841	580	361	9.4	2,270	2,780	244	2.13	34.6	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
0808 filtr	6/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.49	-0.1	-0.05	-0.001	-0.1	0.06	- 1.4	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
EPA 22A	7/25/1989	6,914.50	7.1	6.95	1,384	311	59	84	3.1	542	646	10.7	0.06	0.2	-0.001
EPA 22A	10/8/1989	6,913.70	6.9	7.56	1,310	269	55.4	88.2	4.3	521	605	11.4	0.06	0.26	-0.001
EPA 22A	1/17/1990	6,912.90	6.8	6.96	1,478	311	57.4	86.7	3.4	556	677	11.7	0.07	0.25	-0.001
EPA 22A	4/19/1990	6,911.90	6.9	7.31	1,448	310	63.1	82.9	3.2	576	845	11.5	0.06	0.21	-0.001
EPA 22A	7/17/1990	6,910.80	6.9	7.28	1,505	317	59.5	80.4	3.6	583	681	11.6	-0.05	0.12	-0.001
EPA 22A	10/16/1990	6,910.00	6.8	7.79	1,536	301	59.9	81.2	3.4	547	704	10.9	-0.05	0.2	-0.001
EPA 22A	1/10/1991	6,909.50	6.9	7.98	1,551	324	69.2	84.7	7.1	533	754	16.7	-0.05	0.21	-0.001
EPA 22A	4/16/1991	6,908.80	6.8	7.66	1,494	299	60.9	80	3.7	521	720	10.2	-0.05	0.21	-0.001
EPA 22A	7/9/1991	6,908.30	6.8	7.42	1,532	291	54.1	75	3.1	540	663	11.5	0.17	0.09	-0.001
EPA 22A	10/22/1991	6,907.70	6.8	7.24	1,430	282	55.3	84.1	3	549	685	16.2	0.16	-0.01	-0.001
EPA 22A	1/23/1992	6,906.90	6.8	7.76	1,416	308	52.3	82.2	3.3	540	676	11.4	-0.05	-0.01	-0.001
EPA 22A	4/2/1992	6,906.30	6.8	7.7	1,453	294	61.2	95.8	3.4	556	727	11	-0.05	-0.1	-0.001
EPA 22A	7/16/1992	6,905.20	6.9	7.43	1,456	268	58.6	74.3	3.6	538	714	12.2	-0.05	0.7	-0.001
EPA 22A	10/15/1992	6,904.50	6.9	7.51	1,603	306	59.6	83.9	2.9	548	744	11.4	-0.05	-0.1	-0.001
EPA 22A	1/13/1993	6,903.90	7	7.47	1,497	314	60	81	3.3	545	746	15.9	-0.05	-0.1	-0.001
EPA 22A	4/15/1993	6,903.20	7	7.52	1,631	341	54.4	88.4	1.9	548	777	12.5	-0.05	0.6	-0.001
EPA 22A	7/21/1993	6,902.30	7	7.83	1,635	333	62	98	4.3	558	859	11.8	-0.05	0.33	-0.001
EPA 22A	10/12/1993	6,899.70	7	7.4	1,699	352	63.3	92.5	2.1	551	847	11.2	-0.05	0.33	-0.001
EPA 22A	1/11/1994	6,900.90	7	7.92	1,748	343	68.9	72.9	1.7	492	938	11.4	0.12	0.91	-0.001
EPA 22A	4/19/1994	6,900.40	6.7	7.77	1,595	315	61.7	82.8	2.8	483	815	11.8	-0.05	0.68	-0.001
EPA 22A	7/27/1994	6,899.80	6.8	7.68	1,548	392	58.8	85.1	2	510	877	9.8	-0.05	0.46	-0.001
EPA 22A	10/11/1994	6,899.10	6.9	7.71	1,611	341	58.9	95.3	2.5	538	829	11	-0.05	0.99	-0.001
EPA 22A	1/11/1995	6,898.50	6.9	8	1,726	352	63	87	3	534	828	12.3	0.12	0.92	-0.001
EPA 22A	4/11/1995	6,898.10	6.9	7.62	1,585	325	66	88	2.5	547	751	10.5	0.06	1.09	-0.001
EPA 22A	7/11/1995	6,897.50	7	7.84	1,820	394	85	87	2.6	503	974	14.3	1.97	1.92	-0.001
EPA 22A	10/10/1995	6,896.90	7.2	8.22	1,553	313	63	95	2.6	549	724	12	-0.05	1.12	-0.001
EPA 22A	1/9/1996	6,896.30	7.3	7.49	1,724	329	68	94	2.7	549	824	11.5	-0.05	1.73	-0.001
EPA 22A	4/10/1996	6,895.70	7.2	7.93	1,782	350	74.5	83.5	2.5	550	881	12.4	0.06	1.85	-0.001
EPA 22A	7/17/1996	6,895.30	7	7.52	1,815	326	72.4	93.6	2.7	548	816	12.1	0.05	1.29	-0.001
EPA 22A	10/8/1996	6,894.50	6.9	7.48	2,040	401	92	93	3	543	1,041	16.7	0.07	1.44	-0.001
EPA 22A	1/28/1997	6,893.70	7	7.97	2,070	488	104	83	2.83	538	1,178	20.4	0.06	4.07	-0.001
EPA 22A	4/14/1997	6,893.10	6.8	7.95	2,050	409	94	91.6	2.9	537	1,074	16.2	0.06	4.27	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
EPA 22A	7/25/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.08	-0.1	-0.05	-0.001	-0.1	0.0276	- 1.5	1.3	-1	-1
EPA 22A	10/8/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.08	-0.1	-0.05	-0.001	-0.1	0.029	- 1.9	5.9	4.1	7.8
EPA 22A	1/17/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.09	-0.1	-0.05	0.001	-0.1	0.028	2.1	3.1	-1	3.5
EPA 22A	4/19/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.09	-0.1	-0.05	0.001	-0.1	0.027	- 1.5	-0.2	-1	-1
EPA 22A	7/17/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	-0.001	-0.1	0.0359	- 1.2	-0.2	-1	-1
EPA 22A	10/16/1990	-0.1	-0.001	-0.05	-0.01	0.03	-0.05	0.11	-0.1	-0.05	-0.001	-0.1	0.0254	- 1.2	-0.2	-1	-1
EPA 22A	1/10/1991	-0.1	-0.001	-0.01	-0.01	0.01	-0.05	0.1	-0.1	-0.05	-0.001	-0.1	0.0241	- 1.7	-0.2	1.7	1.1
EPA 22A	4/16/1991	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.12	-0.1	-0.05	-0.001	-0.1	0.021	- 1.9	-0.2	-1	-1
EPA 22A	7/9/1991	-0.1	-0.001	-0.01	-0.01	0.01	-0.05	0.1	-0.1	-0.05	-0.001	-0.1	0.0338	- 1.6	-0.2	-1	-1
EPA 22A	10/22/1991	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.1	-0.1	-0.05	-0.001	-0.1	0.013	- 1.3	-0.2	-1	-1
EPA 22A	1/23/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.11	-0.1	-0.05	0.001	-0.1	0.036	4.3	-0.2	3.4	2
EPA 22A	4/2/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.11	-0.1	-0.05	-0.001	-0.1	0.01	1.8	-0.2	-1	-1
EPA 22A	7/16/1992	-0.1	0.001	-0.01	-0.01	-0.01	-0.05	0.11	-0.1	-0.05	0.001	-0.1	0.028	1.9	-0.2	-1	-1
EPA 22A	10/15/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.11	-0.1	-0.05	-0.001	-0.1	0.009	3.7	-0.2	2.2	-1
EPA 22A	1/13/1993	-0.1	-0.001	-0.1	-0.01	-0.01	-0.05	0.11	-0.1	-0.05	-0.001	-0.1	0.041	- 2.8	-0.2	-1	-1
EPA 22A	4/15/1993	-0.1	-0.001	-0.01	-0.01	0.02	-0.05	0.12	-0.1	-0.05	-0.001	-0.1	0.039	- 2.0	-0.2	-1	1.5
EPA 22A	7/21/1993	-0.1	-0.001	-0.01	-0.01	0.01	-0.05	0.11	-0.1	-0.05	-0.001	-0.1	0.039	- 1.6	-0.2	1.6	-1
EPA 22A	10/12/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.12	-0.1	-0.05	-0.001	-0.1	0.045	- 1.6	-0.2	2	-1
EPA 22A	1/11/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.13	-0.1	-0.05	-0.001	-0.1	0.045	- 1.2	-0.2	-1	-1
EPA 22A	4/19/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.12	-0.1	-0.05	-0.001	-0.1	0.034	1.9	-0.2	1.1	2.8
EPA 22A	7/27/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.1	-0.1	-0.05	-0.001	-0.1	0.035	10.5	-0.2	-1	13.7
EPA 22A	10/11/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.11	-0.1	-0.05	-0.001	-0.1	0.036	- 1.8	-0.2	5.4	-1
EPA 22A	1/11/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.13	-0.1	-0.05	-0.001	-0.1	0.051	3.1	-0.2	-1	4.4
EPA 22A	4/11/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.1	-0.1	-0.05	-0.001	-0.1	0.031	1.9	-0.2	-1	2.7
EPA 22A	7/11/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.15	-0.1	-0.05	-0.001	-0.1	0.042	- 1.4	-0.2	-1	1.5
EPA 22A	10/10/1995	-0.1	0.003	-0.01	-0.01	-0.01	-0.05	0.11	-0.1	-0.05	-0.001	-0.1	0.036	5.1	-0.2	-1	2.3
EPA 22A	1/9/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.1	-0.1	-0.05	-0.001	-0.1	0.038	- 1.4	0.8	-1	-1
EPA 22A	4/10/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.09	-0.1	-0.05	-0.001	-0.1	0.048	2.5	-0.2	-1	1.4
EPA 22A	7/17/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.15	-0.1	-0.05	-0.001	-0.1	0.048	- 1.7	-0.2	-1	-1
EPA 22A	10/8/1996	-0.1	0.002	-0.01	-0.01	-0.01	-0.05	0.17	-0.1	-0.05	-0.001	-0.1	0.051	- 3.1	-0.2	-1	2.2
EPA 22A	1/28/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.15	-0.1	-0.05	-0.001	-0.1	0.032	- 2.1	-0.2	-1	1.2
EPA 22A	4/14/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.18	-0.1	-0.05	-0.001	-0.1	0.043	- 2.5	-0.2	-1	3.7

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
EPA 22A	7/15/1997	6,892.60	6.9	8.15	1,940	351	80.8	91.1	2.7	521	955	17.2	0.05	3.79	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
EPA 22A	7/15/1997	-0.1	0.001	-0.01	-0.01	-0.01	-0.05	0.27	-0.1	-0.05	0.003	-0.1	0.032	- 1.8	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
EPA Standard		NA	NA	NA	4,800	NA	NA	NA	NA	NA	2,125	250	NA	190	NA
EPA 23	7/28/1989	6,897.30	6.6	6.37	4,967	742	422	185	10.7	1,037	2,390	96.4	0.68	97	-0.001
EPA 23	10/8/1989	6,896.70	6.3	7.1	4,930	682	397	173	14.1	1,086	2,339	91	0.53	91	-0.001
EPA 23	1/17/1990	6,896.30	6.4	6.66	4,882	669	391	174	10.9	1,074	2,278	90.9	0.53	89	-0.001
EPA 23	4/18/1990	6,895.60	6.5	6.88	4,988	610	363	165	9.9	1,104	2,241	89.9	0.64	80	-0.001
EPA 23	7/13/1990	6,894.70	6.6	6.86	4,780	678	413	173	11.2	1,106	2,243	89.7	0.31	82.9	-0.001
EPA 23	10/11/1990	6,894.50	6.5	7.03	4,580	657	403	173	10.8	1,076	2,374	99	0.5	80.1	-0.001
EPA 23	1/9/1991	6,893.90	6.5	7.1	4,876	688	418	177	27	1,070	2,406	97.5	0.51	95	-0.001
EPA 23	4/16/1991	6,893.60	6.4	7.9	4,876	604	387	165	11.1	1,059	2,408	90	0.43	115	-0.001
EPA 23	7/9/1991	6,892.90	6.3	6.81	5,029	616	393	163	9	1,122	2,347	93.7	0.56	81.8	-0.001
EPA 23	10/23/1991	6,892.40	6.3	7.17	4,870	626	393	173	10.2	1,059	2,257	101	0.8	67.5	-0.001
EPA 23	1/16/1992	6,891.70	6.4	7.42	4,916	619	382	168	9.8	979	2,376	100	1	94.3	-0.001
EPA 23	4/2/1992	6,891.50	6.3	7.27	4,901	669	360	211	12	1,096	2,408	89.3	0.73	94.3	-0.001
EPA 23	7/16/1992	6,890.20	6.5	7.08	5,173	682	349	201	11.4	1,093	2,390	93.4	0.4	74.4	-0.001
EPA 23	10/15/1992	6,889.30	6.6	7.11	4,866	655	339	170	11.5	1,091	2,373	88.2	0.7	48.4	-0.001
EPA 23	1/14/1993	6,889.20	6.6	7.3	4,647	622	358	155	11.1	1,054	2,404	78.6	1.2	39.5	-0.001
EPA 23	4/15/1993	6,888.90	6.7	7.08	4,777	669	349	176	8.8	1,094	2,361	93.1	0.75	56.6	-0.001
EPA 23	7/21/1993	6,887.50	6.7	7.48	4,450	671	347	180	11	1,137	2,207	87.8	0.93	53	-0.001
EPA 23	10/11/1993	6,885.70	6.7	7.06	4,749	753	372	155	9	1,059	2,225	79.6	0.91	52.4	-0.001
EPA 23	1/10/1994	6,886.70	6.6	7.42	4,712	681	346	179	8.4	1,007	2,547	85.2	0.9	41.5	-0.001
EPA 23	4/19/1994	6,886.60	6.4	7.63	4,823	632	342	160	10.1	997	2,460	84.9	1.07	49.5	-0.001
EPA 23	7/27/1994	6,886.00	6.5	7.4	4,720	748	344	144	9.7	1,061	2,369	88.4	0.8	52.1	-0.001
EPA 23	10/10/1994	6,885.40	6.7	7.45	4,891	701	404	174	10	1,175	2,599	92.2	1.2	54.4	-0.001
EPA 23	1/11/1995	6,885.30	6.6	7.21	4,852	690	352	156	10.4	1,142	2,333	96.7	1.41	56.3	-0.001
EPA 23	4/11/1995	6,885.00	6.5	7.21	4,914	710	388	162	9.7	1,152	2,414	108	1.64	53.4	-0.001
EPA 23	7/10/1995	6,884.10	6.6	7.5	4,865	695	401	176	10.3	1,227	2,303	113	2.28	61.4	-0.001
EPA 23	10/9/1995	6,883.80	6.5	7.66	4,379	675	380	155	9.4	1,122	2,194	83.3	1.31	32.7	-0.001
EPA 23	1/8/1996	6,883.30	6.4	7.35	4,421	690	390	162	10.1	1,114	2,267	86	1.39	42.5	-0.001
EPA 23	4/9/1996	6,883.10	6.7	7.67	4,880	725	411	150	9.7	1,172	2,440	95.3	1.51	45	-0.001
EPA 23	7/17/1996	6,882.50	6.5	7.07	4,518	620	350	135	10	1,048	2,368	68	1.09	8.94	-0.001
EPA 23	10/8/1996	6,882.30	6.5	7.18	4,670	658	378	150	10.1	1,094	2,269	81.1	1.04	25.8	-0.001
EPA 23	1/27/1997	6,881.80	6.6	7.83	4,720	650	370	152	10.3	1,138	2,403	99	1.19	32.9	-0.001
EPA 23	4/14/1997	6,883.20	6.5	7.71	4,980	733	431	164	10.4	1,210	2,351	116	1.88	34.5	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
EPA 23	7/28/1989	-0.1	-0.001	-0.05	-0.01	0.01	-0.05	1.8	-0.1	-0.05	0.001	-0.1	0.0443	- 1.2	-0.2	-1	-1
EPA 23	10/8/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	1.9	-0.1	-0.05	0.001	-0.1	0.04	- 1.2	9.8	-1	10.2
EPA 23	1/17/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	1.9	-0.1	-0.05	-0.001	-0.1	0.035	2.2	1.3	1.5	1.5
EPA 23	4/18/1990	-0.1	0.002	-0.05	-0.01	-0.01	-0.05	1.6	-0.1	-0.05	-0.016	-0.1	0.031	- 1.4	-0.2	-1	-1
EPA 23	7/13/1990	-0.1	-0.001	-0.05	-0.01	0.01	-0.05	2.11	-0.1	-0.05	-0.001	-0.1	0.0388	- 1.2	-0.2	-1	-1
EPA 23	10/11/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	2.07	-0.1	-0.05	-0.001	-0.1	0.0378	- 1.9	-0.2	-1	-1
EPA 23	1/9/1991	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	2.01	-0.1	-0.05	0.001	-0.1	0.0491	- 1.2	-0.2	-1	-1
EPA 23	4/16/1991	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	2.08	-0.1	-0.05	-0.001	-0.1	0.023	- 1.2	-0.2	-1	-1
EPA 23	7/9/1991	0.17	-0.001	-0.01	-0.01	-0.01	-0.05	1.95	-0.1	-0.05	-0.001	-0.1	0.0436	- 1.4	-0.2	-1	-1
EPA 23	10/23/1991	0.14	-0.001	-0.01	-0.01	-0.01		2.18	-0.1	-0.05	-0.001	-0.1	0.051	- 1.2	-0.2	-1	-1
EPA 23	1/16/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	2.28	-0.1	-0.05	-0.001	-0.1	0.032	- 1.3	-0.2	-1	-1
EPA 23	4/2/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	2.27	-0.1	-0.05	0.013	-0.1	0.031	- 3.8	-0.2	-1	-1
EPA 23	7/16/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	2.23	-0.1	-0.05	0.001	-0.1	0.032	4.3	-0.2	-1	1.3
EPA 23	10/15/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	2.69	-0.1	-0.05	-0.001	-0.1	0.038	3.0	-0.2	1.1	1.8
EPA 23	1/14/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	2.68	-0.1	-0.05	-0.001	-0.1	0.035	- 2.0	-0.2	-1	-1
EPA 23	4/15/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	2.61	-0.1	-0.05	-0.001	-0.1	0.028	- 1.3	-0.2	-1	-1
EPA 23	7/21/1993	-0.1	-0.001	-0.01	0.02	0.02	-0.05	2.89	-0.1	-0.05	-0.001	-0.1	0.036	- 1.2	-0.2	-1	-1
EPA 23	10/11/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	2.74	-0.1	-0.05	0.001	-0.1	0.028	- 1.6	-0.2	-1	-1
EPA 23	1/10/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	2.95	-0.1	-0.05	-0.001	-0.1	0.035	- 3.9	-0.2	-1	6.7
EPA 23	4/19/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	2.63	-0.1	-0.05	-0.001	-0.1	0.039	- 1.2	-0.2	-1	-1
EPA 23	7/27/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	2.75	-0.1	-0.05	0.001	-0.1	0.032	4.0	-0.2	-1	5.4
EPA 23	10/10/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	2.82	-0.1	-0.05	-0.001	-0.1	0.036	- 1.3	-0.2	1.9	-1
EPA 23	1/11/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	2.75	-0.1	-0.05	-0.001	-0.1	0.046	3.1	-0.2	1.9	4.5
EPA 23	4/11/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	3	-0.1	-0.05	-0.001	-0.1	0.034	- 1.2	-0.2	-1	-1
EPA 23	7/10/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	3.03	-0.1	-0.05	0.002	-0.1	0.038	- 1.3	-0.2	-1	3.3
EPA 23	10/9/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	3.52	-0.1	-0.05	0.004	-0.1	0.033	3.6	-0.2	-1	-1
EPA 23	1/8/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	3.4	-0.1	-0.05	0.003	-0.1	0.037	- 1.2	-0.2	1.9	-1
EPA 23	4/9/1996	-0.1	0.002	-0.01	-0.01	-0.01	-0.05	3.29	-0.1	-0.05	-0.001	-0.1	0.04	- 1.2	-0.2	-1	-1
EPA 23	7/17/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	4.2	-0.1	-0.05	-0.001	-0.1	0.025	- 1.2	-0.2	-1	-1
EPA 23	10/8/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	3.65	-0.1	-0.05	-0.001	-0.1	0.031	- 1.3	-0.2	-1	-1
EPA 23	1/27/1997	-0.1	0.003	-0.01	-0.01	-0.01	-0.05	3.41	-0.1	-0.05	0.005	-0.1	0.026	- 1.2	-0.2	-1	-1
EPA 23	4/14/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	3.39	-0.1	-0.05	0.005	-0.1	0.035	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
EPA Standard		NA	NA	NA	4,800	NA	NA	NA	NA	NA	2,125	250	NA	190	NA
EPA 23	7/14/1997	6,881.10	6.5	7.56	4,810	699	400	145	10	1,130	2,190	99	1.39	33.4	-0.001
EPA 23	10/14/1997	6,880.40	6.5	7.71	4,840	728	427	175	10.4	1,180	2,450	113	1.7	40	-0.001
EPA 23	1/19/1998	6,881.10	6.6	7.64	4,490	647	369	134	10.5	1,050	2,730	71.4	1.41	1.93	-0.001
EPA 23	4/13/1998	6,880.40	6.7	7.37	4,840	711	416	167	10.7	1,180	2,250	90.8	2.05	49.3	-0.001
EPA 23	7/13/1998	6,880.10	6.7	7.73	5,060	710	424	170	10.7	1,190	2,200	98.9	2.32	46	-0.001
EPA 23	10/13/1998	6,880.40	6.63	7.95	4,620	668	390	151	10.5	1,110	2,300	78.2	3.05	59.2	-0.001
EPA 23	1/12/1999	6,880.10	6.7	7.72	4,740	653	374	142	9.7	1,180	2,100	95.6	2.45	61.6	-0.001
EPA 23	4/13/1999	6,880.00	6.6	7.68	4,670	684	375	145	9.6	1,140	2,290	92.2	2.09	29.2	-0.001
EPA 23	7/20/1999	6,879.91	6.7	7.67	4,640	690	402	134	12	1,120	2,300	86	2.65	56.5	-0.001
EPA 23	10/12/1999	6,880.10	6.62	7.69	4,910	687	424	152	10.2	1,240	2,270	111	3.61	63.4	-0.001
EPA 23	1/11/2000	6,879.60	6.6	7.73	4,730	624	379	144	11.2	1,190	1,840	92.6	3.11	60.5	-0.001
EPA 23	5/9/2000	6,879.20	6.6	7.81	4,380	598	364	125	9.8	1,040	2,130	68.7	0.96	1.41	-0.001
EPA 23	7/17/2000	6,878.80	6.55	7.66	4,450	630	376	117	9.68	1,060	1,980	71.1	1.02	1.51	-0.001
EPA 23	10/9/2000	6,878.60	6.54	7.45	4,390	531	325	112	10.6	1,060	1,770	57.4	0.96	1.03	-0.001
EPA 23	1/9/2001	6,878.70	6.75	7.68	4,340	648	391	114	9.2	1,050	2,150	67.7	0.97	1.14	-0.001
EPA 23	2/6/2001	6,878.60	6.8	7.56	4,380	737	429	118	10.6	1,060	2,510	68.5	1.08	1.25	-0.001
EPA 23	3/6/2001	6,878.50	6.93	7.61	4,070	636	389	150	10.2	1,030	2,410	65.6	1.09	1.25	-0.001
EPA 23	4/4/2001	6,878.50	6.87	7.49	4,400	702	410	118	9.3	1,040	2,310	71	1.16	1.41	-0.001
EPA 23	5/7/2001	6,878.40	6.97	7.14	4,460	622	371	113	10	1,040	2,070	78.6	1.28	1.25	-0.001
EPA 23	6/4/2001	6,878.80	6.67	7.22	4,360	618	371	107	9.5	1,040	2,210	75.4	1.29	1.67	-0.001
EPA 23	7/9/2001	6,878.40	6.6	7.12	4,470	684	418	116	9.7	1,060	2,250	86	1.07	1.36	-0.001
EPA 23	8/6/2001	6,878.25	6.58	7.2	4,500	640	390	110	10	1,060	2,300	86	1.1	1.28	-0.001
EPA 23	9/10/2001	6,878.49	6.56	7.5	4,490	650	390	122	9.9	1,100	2,200	75.6	1.02	1.2	-0.001
EPA 23	10/1/2001	6,878.40	6.68	7.3	4,500	600	370	115	10.4	1,080	2,100	87.9	1.15	1	-0.001
EPA 23	11/5/2001	6,878.50	6.74	7.6	4,540	670	401	123	10.8	1,050	2,360	87	0.95	1.2	-0.001
EPA 23	12/3/2001	6,878.50	6.68	7.6	4,480	615	365	107	9.7	1,070	2,020	83.6	1.06	3.6	-0.001
EPA 23	1/7/2002	6,878.20	6.7	7.1	4,500	715	403	101	10.7	1,070	2,430	94.4	1.01	1.02	-0.001
EPA 23	2/4/2002	6,878.15	6.8	7.3	4,470	711	396	124	10.6	1,060	2,350	88.2	1.18	0.95	-0.001
EPA 23	3/4/2002	6,878.05	6.73	7.2	4,430	650	383	132	10.3	1,080	2,340	82.7	1.07	1.16	-0.001
EPA 23	4/1/2002	6,878.20	6.57	7.83	4,490	681	389	127	11.2	1,070	2,400	83	1.09	1.14	-0.001
EPA 23	5/6/2002	6,878.16	6.62	7.17	4,500	661	380	127	11	1,080	2,240	77.7	1.11	1.09	-0.001
EPA 23	6/3/2002	6,878.22	6.61	7.37	4,480	664	382	117	9.4	1,060	2,270	73.5	1.12	1.05	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
EPA 23	7/14/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	3.45	-0.1	-0.05	0.001	-0.1	0.033	- 1.5	-0.2	-1	-1
EPA 23	10/14/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	3.69	-0.1	-0.05	0.003	-0.1	0.039	- 1.2	-0.2	-1	-1
EPA 23	1/19/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	4.63	-0.1	-0.05	-0.001	-0.1	0.024	- 1.8	-0.2	-1	-1
EPA 23	4/13/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	3.53	-0.1	-0.05	-0.001	-0.1	0.0405	- 1.2	-0.2	-1	-1
EPA 23	7/13/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	3.69	-0.1	-0.05	-0.001	-0.1	0.0448	- 1.2	-0.2	-1	-1
EPA 23	10/13/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.83	-0.1	-0.05	-0.001	-0.1	0.0288	- 1.2	-0.2	-1	-1
EPA 23	1/12/1999	-0.1	-0.001	-0.01	0.005	-0.01	-0.05	2.75	-0.1	-0.05	-0.001	-0.1	0.0443	- 1.2	-0.2	-1	-1
EPA 23	4/13/1999	-0.1	-0.001	-0.01	0.005	-0.01	-0.05	2.96	-0.1	-0.05	-0.001	-0.1	0.0313	- 1.2	-0.2	-1	-1
EPA 23	7/20/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.33	-0.1	-0.05	-0.001	-0.1	0.0286	- 1.2	-0.2	-1	-1
EPA 23	10/12/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	3.23	-0.1	-0.05	-0.001	-0.1	0.0452	- 1.2	-0.2	-1	-1
EPA 23	1/11/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	3.17	-0.1	-0.05	0.001	-0.1	0.0388	- 1.2	-0.2	-1	-1
EPA 23	5/9/2000	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	7.09	-0.1	-0.05	-0.001	-0.1	0.0254	- 2.3	-0.2	5.4	-1
EPA 23	7/17/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	4.76	-0.1	-0.05	-0.001	-0.1	0.0231	- 1.2	-0.2	-1	-1
EPA 23	10/9/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	4.03	-0.1	-0.05	-0.001	-0.1	0.025	- 1.2	-0.2	-1	-1
EPA 23	1/9/2001	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	4.77	-0.1	-0.05	0.001	-0.1	0.024	- 2.5	-0.2	-1	-1
EPA 23	2/6/2001	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	4.77	-0.1	-0.05	-0.001	-0.1	0.025	2.5	-0.2	-1	-1
EPA 23	3/6/2001	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	5	-0.1	-0.05	-0.001	-0.1	0.0245	- 1.2	-0.2	-1	-1
EPA 23	4/4/2001	-0.1	0.001	-0.01	-0.005	-0.01	-0.05	4.29	-0.1	-0.05	-0.001	-0.1	0.024	- 1.3	-0.2	-1	-1
EPA 23	5/7/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	5.74	-0.1	-0.05	-0.001	-0.1	0.026	- 1.2	-0.2	-1	-1
EPA 23	6/4/2001	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	5.11	-0.1	-0.05	-0.001	-0.1	0.025	- 1.2	-0.2	-1	-1
EPA 23	7/9/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	5.1	-0.1	-0.05	-0.001	-0.1	0.0276	- 1.2	-0.2	-1	-1
EPA 23	8/6/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	5.4	-0.1	-0.05	-0.001	-0.1	0.025	- 1.2	-0.2	-1	-1
EPA 23	9/10/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	4.68	-0.1	-0.05	-0.001	-0.1	0.0229	- 1.2	-0.2	-1	-1
EPA 23	10/1/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	4.38	-0.1	-0.05	-0.001	-0.1	0.0239	- 1.5	-0.2	-1	-1
EPA 23	11/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	4.79	-0.1	-0.05	-0.001	-0.1	0.0212	4.4	-0.2	-1	-1
EPA 23	12/3/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	4.48	-0.1	-0.05	0.003	-0.1	0.0243	- 1.2	-0.2	-1	-1
EPA 23	1/7/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	4.59	-0.1	-0.05	-0.001	-0.1	0.0211	- 1.5	-0.2	-1	-1
EPA 23	2/4/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	4.69	-0.1	-0.05	-0.001	-0.1	0.0164	- 1.4	-0.2	-1	-1
EPA 23	3/4/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	5.48	-0.1	-0.05	-0.001	-0.1	0.0259	- 1.2	-0.2	-1	-1
EPA 23	4/1/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	5.12	-0.1	-0.05	-0.001	-0.1	0.029	- 1.2	-0.2	-1	-1
EPA 23	5/6/2002	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	5.41	-0.1	-0.05	-0.001	-0.1	0.0252	- 1.2	-0.2	-1	-1
EPA 23	6/3/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	5.43	-0.1	-0.05	-0.001	-0.1	0.0262	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
EPA 23	7/8/2002	6,877.87	6.62	7.55	4,520	656	395	119	10.2	1,070	2,320	78.2	1.34	0.91	-0.001
EPA 23	10/8/2002	6,877.85	5.92	7.59	4,280	628	372	118	9.5	1,080	2,010	75.6	1.47	0.98	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
EPA 23	7/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	4.62	0.1	-0.05	-0.001	-0.1	0.0291	- 1.6	-0.2	-1	-1
EPA 23	10/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	4.67	-0.1	-0.05	-0.001	-0.1	0.0197	- 1.8	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
EPA 23Dup	5/9/2000	--	6.5	7.81	4,430	600	365	125	9.6	1,050	2,150	70	0.99	1.38	-0.001
EPA 23Dup	7/17/2000	6,878.80	6.56	7.55	4,450	630	377	120	9.64	1,050	2,030	68.9	1.03	1.54	-0.001
EPA 23Dup	10/9/2000	6,878.60	6.55	7.55	4,380	528	325	111	10.4	1,050	1,740	56.1	0.92	1.01	-0.001
EPA 23Dup	1/9/2001	6,878.40	6.76	7.63	4,370	650	392	119	9.3	1,060	2,380	69.7	1.05	1.14	-0.001
EPA 23Dup	2/6/2001	6,878.35	6.68	7.56	4,380	729	424	111	10.5	1,060	2,500	67.1	1.08	1.3	-0.001
EPA 23Dup	3/6/2001	6,878.20	7.08	7.78	4,110	637	389	150	10.1	1,030	2,420	64.7	1.12	1.2	-0.001
EPA 23Dup	4/4/2001	6,778.30	6.87	7.51	4,410	711	414	114	9.2	1,040	2,350	73.9	1.2	1.42	-0.001
EPA 23Dup	5/7/2001	6,878.35	6.88	7.21	4,450	620	371	109	10	1,030	2,060	79.4	1.21	1.27	-0.001
EPA 23Dup	6/4/2001	6,878.14	6.67	7.24	4,020	617	372	102	9.8	1,020	2,240	76.2	1.33	1.6	-0.001
EPA 23Dup	7/9/2001	6,878.14	6.59	7.05	4,480	682	418	113	9.6	1,070	2,240	90	1.12	1.51	-0.001
EPA 23Dup	8/6/2001	6,878.01	6.59	7.2	4,480	630	390	110	10	1,060	2,100	91	1.1	1.29	-0.001
EPA 23Dup	9/10/2001	6,878.10	6.56	7.5	4,460	650	390	118	10	1,100	2,200	76.2	1.03	1.2	-0.001
EPA 23Dup	10/1/2001	6,878.15	6.67	7.4	4,510	610	370	113	10.6	1,090	2,200	97.7	1.06	1	-0.001
EPA 23Dup	11/5/2001	6,878.15	6.71	7.6	4,540	664	397	117	10.8	1,050	2,320	95	0.94	1.1	-0.001

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SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
EPA 23Dup	5/9/2000	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	6.96	-0.1	-0.05	-0.001	-0.1	0.0255	- 1.8	-0.2	5	-1
EPA 23Dup	7/17/2000	-0.1	-0.001	-0.01	-0.005	-0.01	8.91	-0.05	4.61	-0.1	-0.05	-0.001	-0.1	- 0.2	-1	-0.2	-1
EPA 23Dup	10/9/2000	-0.1	-0.001	-0.01	-0.005	-0.01	0.05	4	-0.1	-0.05	-0.001	-0.1	0.025	- 1.2	-0.2	-1	-1
EPA 23Dup	1/9/2001	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	4.65	-0.1	-0.05	-0.001	-0.1	0.024	- 1.2	-0.2	-1	-1
EPA 23Dup	2/6/2001	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	4.85	-0.1	-0.05	-0.001	-0.1	0.025	2.6	-0.2	-1	-1
EPA 23Dup	3/6/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	5.03	-0.1	0.07	-0.001	-0.1	0.0252	- 1.4	-0.2	-1	-1
EPA 23Dup	4/4/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	4.19	-0.1	-0.05	-0.001	-0.1	0.023	- 1.2	-0.2	-1	-1
EPA 23Dup	5/7/2001	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	5.75	-0.1	-0.05	-0.001	-0.1	0.025	- 1.2	-0.2	-1	-1
EPA 23Dup	6/4/2001	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	5.15	-0.1	-0.05	-0.001	-0.1	0.024	- 1.2	-0.2	-1	-1
EPA 23Dup	7/9/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	5.19	-0.1	-0.05	-0.001	-0.1	0.0263	- 1.2	-0.2	-1	-1
EPA 23Dup	8/6/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	5.5	-0.1	-0.05	-0.001	-0.1	0.027	- 1.2	-0.2	-1	-1
EPA 23Dup	9/10/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	4.96	-0.1	-0.05	-0.001	-0.1	0.0245	- 1.2	-0.2	-1	-1
EPA 23Dup	10/1/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	4.39	-0.1	-0.05	-0.001	-0.1	0.0235	- 1.2	-0.2	-1	-1
EPA 23Dup	11/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	4.74	-0.1	-0.05	-0.001	-0.1	0.0223	2.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
EPA 25	7/28/1989	6,861.30	7	6.66	3,200	659	148	109	7.3	549	1,711	29	0.05	37	-0.001
EPA 25	10/8/1989	6,861.10	6.7	7.54	3,200	650	150	107	10	619	1,745	31.7	0.05	36	-0.001
EPA 25	1/17/1990	6,861.50	6.6	6.7	3,252	625	147	106	7.8	615	1,656	31.7	0.05	30	-0.001
EPA 25	4/18/1990	6,861.20	6.7	6.88	3,299	640	148	103	7.3	647	1,619	34.1	0.05	35	-0.001
EPA 25	7/13/1990	6,860.60	6.7	7.18	3,343	642	164	101	8.6	677	1,628	34.1	-0.05	34.4	-0.001
EPA 25	10/10/1990	6,860.70	6.8	7.32	3,422	711	155	105	8.1	653	1,724	38	-0.05	35.9	-0.001
EPA 25	1/9/1991	6,861.00	6.8	7.2	3,248	655	152	111	12	667	1,624	39.4	-0.05	43.5	-0.001
EPA 25	4/16/1991	6,860.80	6.6	7.9	3,300	633	150	107	7.6	650	1,640	40.2	-0.05	54.5	-0.001
EPA 25	7/9/1991	6,860.90	6.4	7.14	3,461	607	153	95	6.7	677	1,718	39.2	0.15	55	-0.001
EPA 25	10/24/1991	6,859.60	6.5	7.47	3,399	639	432	105	7.3	722	1,672	62.5	0.31	38	-0.001
EPA 25	1/24/1992	6,859.30	6.5	7.51	3,123	619	153	102	7	691	1,669	45.7	0.14	23.5	-0.001
EPA 25	4/3/1992	6,859.20	6.4	7.51	3,414	564	138	129	8.9	752	1,781	45.4	0.22	43.9	-0.001
EPA 25	7/16/1992	6,858.50	6.5	7.48	3,076	623	161	156	10.1	740	1,804	49.3	0.18	44.9	-0.001
EPA 25	10/15/1992	6,858.10	6.7	7.03	3,529	673	147	120	8.8	769	1,725	51.6	-0.05	38.9	-0.001
EPA 25	1/12/1993	6,857.80	6.7	7.36	3,591	725	162	112	9.5	766	1,631	52.6	-0.05	50.7	-0.001
EPA 25	4/15/1993	6,857.70	6.7	7.65	3,674	793	151	123	6.4	1,049	1,818	59.4	0.06	41.1	-0.001
EPA 25	7/20/1993	6,857.00	6.7	7.52	3,503	696	151	127	7.1	817	1,709	62.7	0.07	38.7	-0.001
EPA 25	10/11/1993	6,855.10	6.8	7.26	3,584	707	152	95	6.5	805	1,699	59.3	0.05	40.8	-0.001
EPA 25	1/10/1994	6,856.60	6.8	7.59	3,639	662	163	99	6.3	790	1,771	67.8	0.12	38.6	-0.001
EPA 25	4/20/1994	6,856.30	6.8	7.07	3,486	647	151	112	6.5	791	1,672	67	0.18	47.1	-0.001
EPA 25	7/26/1994	6,855.80	6.7	7.6	3,663	783	181	115	7.4	822	1,681	70.4	-0.05	54.7	-0.001
EPA 25	10/10/1994	6,855.70	6.7	7.6	3,704	764	187	129	7.8	907	1,909	73.9	0.13	47.1	-0.001
EPA 25	1/10/1995	6,855.40	6.8	7.5	3,734	840	137	120	8.4	889	1,779	78.7	0.13	47.1	-0.001
EPA 25	4/11/1995	6,855.20	6.1	7.35	3,686	806	200	136	13.7	915	1,849	91	0.34	50.1	-0.001
EPA 25	7/10/1995	6,855.20	6.9	7.53	3,576	715	198	133	7.6	697	1,716	88	0.26	58.9	-0.001
EPA 25	10/9/1995	6,854.70	6.9	7.8	3,789	745	202	148	7.2	791	1,696	80	0.14	62.9	-0.001
EPA 25	1/8/1996	6,854.30	6.8	7.36	3,963	745	212	139	6.9	841	1,826	71	-0.05	86.4	-0.001
EPA 25	4/9/1996	6,854.00	6.9	7.76	3,942	790	206	135	7.2	937	1,766	87.4	0.11	62.6	-0.001
EPA 25	7/17/1996	6,853.70	6.7	7.1	3,928	710	182	145	7.9	964	1,816	95	0.07	67.2	-0.001
EPA 25	10/8/1996	6,853.60	6.7	7.09	4,000	767	199	144	7.9	981	1,742	89	0.08	59.6	-0.001
EPA 25	1/27/1997	6,853.30	6.7	7.99	3,960	760	200	135	8.1	952	1,939	117	0.06	60.8	-0.001
EPA 25	4/14/1997	6,854.20	6.5	7.96	4,020	851	215	142	8.3	981	1,777	100	-0.05	78.9	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
EPA 25	7/28/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.22	-0.1	-0.05	0.001	-0.1	0.0184	- 1.6	-0.2	1	1.8
EPA 25	10/8/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.22	-0.1	-0.05	0.001	-0.1	0.022	- 2.0	-0.2	1.2	1.1
EPA 25	1/17/1990	-0.1	-0.001	-0.05	-0.01	0.02	-0.05	0.21	-0.1	-0.05	-0.001	-0.1	0.019	2.2	0.7	-1	1
EPA 25	4/18/1990	-0.1	-0.001	-0.05	-0.01	0.02	-0.05	0.3	-0.1	-0.05	0.001	-0.1	0.019	- 1.5	-0.2	-1	1.4
EPA 25	7/13/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.18	-0.1	-0.05	-0.001	-0.1	0.0194	- 1.2	-0.2	-1	-1
EPA 25	10/10/1990	-0.1	-0.001	-0.05	-0.01	0.01	-0.05	0.2	-0.1	-0.05	-0.001	-0.1	0.0206	- 1.2	-0.2	-1	-1
EPA 25	1/9/1991	-0.1	-0.001	-0.01	-0.01	0.01	-0.05	0.23	-0.1	-0.05	-0.001	-0.1	0.0277	- 1.2	-0.2	-1	-1
EPA 25	4/16/1991	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.25	-0.1	-0.05	-0.001	-0.1	0.017	- 1.2	-0.2	1.5	-1
EPA 25	7/9/1991	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.22	-0.1	-0.05	-0.001	-0.1	0.0231	- 1.2	-0.2	1.7	-1
EPA 25	10/24/1991	-0.1	-0.001	-0.01	-0.01	0.01		0.24	-0.1	-0.05	-0.001	-0.1	0.049	- 3.7	-0.2	-1	-1
EPA 25	1/24/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.24	-0.1	-0.05	0.001	-0.1	0.027	- 1.7	-0.2	-1	-1
EPA 25	4/3/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.22	-0.1	-0.05	-0.001	-0.1	0.039	- 5.6	-0.2	-1	-1
EPA 25	7/16/1992	-0.1	0.007	-0.01	-0.01	0.02	-0.05	0.35	-0.1	-0.05	0.003	-0.1	0.041	- 1.2	-0.2	7	-1
EPA 25	10/15/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.23	-0.1	-0.05	-0.001	-0.1	0.022	2.8	-0.2	5.7	1.9
EPA 25	1/12/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.22	-0.1	-0.05	0.01	-0.1	0.018	- 1.2	-0.2	-1	-1
EPA 25	4/15/1993	-0.1	-0.001	-0.01	-0.01	0.02	-0.05	0.23	-0.1	-0.05	-0.001	-0.1	0.025	- 1.2	-0.2	1.9	-1
EPA 25	7/20/1993	-0.1	-0.001	-0.01	-0.01	0.03	-0.05	0.24	-0.1	-0.05	-0.001	-0.1	0.025	- 1.2	-0.2	-1	-1
EPA 25	10/11/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.21	-0.1	-0.05	-0.001	-0.1	0.023	- 1.2	-0.2	3.5	-1
EPA 25	1/10/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.29	-0.1	-0.05	-0.001	-0.1	0.062	- 3.0	-0.2	5.2	5.2
EPA 25	4/20/1994	-0.1	0.002	-0.01	-0.01	-0.01	-0.05	0.21	-0.1	-0.05	-0.001	-0.1	0.04	- 2.7	-0.2	-1	1.9
EPA 25	7/26/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.26	-0.1	-0.05	-0.001	-0.1	0.052	- 1.2	-0.2	-1	-1
EPA 25	10/10/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.25	-0.1	-0.05	-0.001	-0.1	0.046	- 1.3	-0.2	-1	-1
EPA 25	1/10/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.29	-0.1	-0.05	-0.001	-0.1	0.051	- 1.2	-0.2	4.3	-1
EPA 25	4/11/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.46	-0.1	-0.05	-0.001	-0.1	0.052	- 3.1	-0.2	-1	2
EPA 25	7/10/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.37	-0.1	-0.05	0.001	-0.1	0.059	- 2.5	-0.2	-1	6.6
EPA 25	10/9/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.51	-0.1	-0.05	0.001	-0.1	0.069	- 4.5	1.4	-1	3.2
EPA 25	1/8/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.25	-0.1	-0.05	-0.001	-0.1	0.009	- 1.2	-0.2	-1	-1
EPA 25	4/9/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.46	-0.1	-0.05	-0.001	-0.1	0.066	- 1.4	-0.2	-1	-1
EPA 25	7/17/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.39	-0.1	-0.05	-0.001	-0.1	0.189	- 1.2	-0.2	-1	-1
EPA 25	10/8/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.41	-0.1	-0.05	-0.001	-0.1	0.078	- 1.2	-0.2	-1	-1
EPA 25	1/27/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.51	-0.1	-0.05	-0.001	-0.1	0.063	- 1.2	-0.2	-1	-1
EPA 25	4/14/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.29	-0.1	-0.05	0.006	-0.1	0.095	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
EPA Standard		NA	NA	NA	4,800	NA	NA	NA	NA	NA	2,125	250	NA	190	NA
EPA 25	7/14/1997	6,852.90	6.7	7.7	4,070	803	205	135	7.7	986	1,670	101	0.06	71.5	-0.001
EPA 25	10/14/1997	6,853.00	6.6	7.71	4,010	835	213	140	7.9	933	1,800	115	0.08	77.7	-0.001
EPA 25	1/20/1998	6,852.80	6.5	7.83	4,080	739	206	155	7.9	952	1,930	96.4	0.19	75.3	-0.001
EPA 25	4/13/1998	6,852.70	6.9	7.33	4,060	799	210	156	8.3	1,020	1,700	87.3	-0.05	76.9	-0.001
EPA 25	7/13/1998	6,852.60	6.9	7.64	4,210	804	213	155	8.5	1,040	1,680	92.6	-0.05	78.4	-0.001
EPA 25	10/13/1998	6,853.20	6.77	8.14	3,950	771	214	158	8.6	886	1,730	89.3	0.13	69.7	-0.001
EPA 25	1/12/1999	6,853.00	6.8	7.86	4,060	733	197	137	8	930	1,600	89.5	0.08	78.5	-0.001
EPA 25	4/13/1999	6,852.70	6.8	7.97	4,040	813	196	146	7.8	969	1,620	93.6	0.05	75	-0.001
EPA 25	7/20/1999	6,852.68	6.8	7.85	4,040	762	226	140	9	941	1,740	84	0.07	72.4	-0.001
EPA 25	10/12/1999	6,852.40	6.83	7.75	4,090	736	201	139	8	959	1,520	87.7	0.06	85.7	-0.001
EPA 25	1/11/2000	6,852.30	6.8	7.97	4,060	752	206	139	9.2	934	1,500	79.6	-0.05	90.8	-0.001
EPA 25	5/9/2000	6,852.70	6.8	7.77	4,030	691	214	160	8.2	813	1,670	75.3	-0.05	105	-0.001
EPA 25	7/18/2000	6,852.40	6.88	7.7	4,120	682	219	157	7.54	778	1,600	67.7	-0.05	112	-0.001
EPA 25	10/10/2000	6,852.25	6.89	7.75	3,990	557	184	132	7.6	761	1,240	53	0.05	121	-0.001
EPA 25	1/9/2001	6,852.10	7.12	7.89	3,910	699	234	155	7	761	1,760	63.4	-0.05	106	-0.001
EPA 25	2/6/2001	6,852.10	7.33	7.34	3,970	792	251	135	8.3	783	1,930	64.3	0.06	106	-0.001
EPA 25	3/6/2001	6,852.15	7.27	7.87	3,710	676	224	186	8.2	757	1,840	58.7	-0.05	105	-0.001
EPA 25	4/10/2001	6,852.25	7.41	7.34	3,940	778	241	143	7.9	782	1,910	71.7	0.08	101	-0.001
EPA 25	5/8/2001	6,852.00	7.02	7.67	3,990	668	222	148	7.6	715	1,570	74.2	0.13	108	-0.001
EPA 25	6/5/2001	6,852.10	7.03	7.57	3,920	705	236	132	7.3	785	1,780	71.2	0.12	94.7	-0.001
EPA 25	7/10/2001	6,852.10	7.29	7.39	4,060	730	244	159	7.3	817	1,720	75.8	0.1	103	-0.001
EPA 25	8/7/2001	6,852.02	7.26	7.5	4,060	650	220	150	7.6	819	1,600	82	0.13	94	-0.001
EPA 25	9/11/2001	6,852.30	6.81	7.8	4,130	680	220	154	7.8	841	1,630	85.9	0.08	111	-0.001
EPA 25	10/2/2001	6,852.40	6.96	7.6	4,090	670	220	142	7.9	883	1,700	100	0.11	97	-0.001
EPA 25	11/6/2001	6,852.40	6.95	7.7	4,040	719	232	149	8.5	841	1,800	96	0.06	92	-0.001
EPA 25	12/4/2001	6,852.55	7.09	7.7	4,020	675	215	138	7.4	852	1,580	86.6	0.07	93	-0.001
EPA 25	1/8/2002	6,852.40	7.09	7.7	4,030	774	239	136	9	783	1,870	97.5	0.06	91.5	-0.001
EPA 25	2/5/2002	6,852.30	7.08	7.6	4,010	761	228	149	8.7	778	1,760	92.4	0.07	92.4	-0.001
EPA 25	3/5/2002	6,852.30	6.98	7.7	3,980	731	230	158	8.2	827	1,800	89.3	0.07	91.6	-0.001
EPA 25	4/2/2002	6,852.20	6.89	7.84	4,070	760	226	161	9	854	1,800	87.3	0.08	91.8	-0.001
EPA 25	5/7/2002	6,852.40	6.95	7.68	4,030	733	222	158	9.1	828	1,720	88.3	0.07	91.5	-0.001
EPA 25	6/4/2002	6,852.35	6.9	7.7	4,050	745	230	149	7.6	831	1,780	79.9	0.07	85.6	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
EPA 25	7/14/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.32	-0.1	-0.05	0.001	-0.1	0.082	- 1.2	-0.2	-1	-1
EPA 25	10/14/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.44	-0.1	-0.05	0.001	-0.1	0.093	- 2.1	-0.2	-1	-1
EPA 25	1/20/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.36	-0.1	-0.05	-0.001	-0.1	0.094	- 1.7	-0.2	-1	-1
EPA 25	4/13/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.35	-0.1	-0.05	-0.001	-0.1	0.0999	- 1.2	-0.2	-1	-1
EPA 25	7/13/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.31	-0.1	-0.05	-0.001	-0.1	0.104	- 1.2	-0.2	-1	-1
EPA 25	10/13/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.61	-0.1	-0.05	-0.001	-0.1	0.0987	- 1.4	-0.2	-1	-1
EPA 25	1/12/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.76	-0.1	-0.05	-0.001	-0.1	0.151	- 1.8	-0.2	-1	-1
EPA 25	4/13/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.55	-0.1	-0.05	-0.001	-0.1	0.0096	- 1.8	-0.2	-1	-1
EPA 25	7/20/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.3	-0.1	-0.05	-0.001	-0.1	0.103	2.9	-0.2	-1	2.2
EPA 25	10/12/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.33	-0.1	-0.05	-0.001	-0.1	0.104	- 1.2	-0.2	-1	-1
EPA 25	1/11/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.3	-0.1	-0.05	0.001	-0.1	0.0928	- 1.5	0.7	-1	-1
EPA 25	5/9/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.96	-0.1	-0.05	-0.001	-0.1	0.0935	- 3.1	-0.2	-1	-1
EPA 25	7/18/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.96	-0.1	-0.05	-0.001	-0.1	0.0865	- 2.2	-0.2	-1	-1
EPA 25	10/10/2000	-0.1	0.001	-0.01	-0.005	-0.01	-0.05	1.11	-0.1	-0.05	-0.001	-0.1	0.095	- 1.5	-0.2	-1	-1
EPA 25	1/9/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.25	-0.1	-0.05	0.002	-0.1	0.086	- 2.9	-0.2	-1	-1
EPA 25	2/6/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.33	-0.1	-0.05	0.002	-0.1	0.094	- 1.2	-0.2	-1	-1
EPA 25	3/6/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.35	-0.1	-0.05	0.001	-0.1	0.0911	- 2.6	-0.2	-1	-1
EPA 25	4/10/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.45	-0.1	-0.05	0.001	-0.1	0.091	- 1.2	-0.2	-1	-1
EPA 25	5/8/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.42	-0.1	-0.05	0.001	-0.1	0.091	- 1.2	-0.2	-1	-1
EPA 25	6/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.53	-0.1	-0.05	0.001	-0.1	0.09	- 1.2	-0.2	-1	-1
EPA 25	7/10/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.58	-0.1	-0.05	0.001	-0.1	0.0981	- 1.2	-0.2	-1	-1
EPA 25	8/7/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.4	-0.1	-0.05	-0.001	-0.1	0.1	- 1.2	-0.2	-1	-1
EPA 25	9/11/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.5	-0.1	-0.05	-0.001	-0.1	0.0904	- 1.2	-0.2	-1	-1
EPA 25	10/2/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.42	-0.1	-0.05	-0.001	-0.1	0.0949	- 1.2	-0.2	-1	-1
EPA 25	11/6/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.46	-0.1	-0.05	-0.001	-0.1	0.0852	- 1.3	-0.2	-1	-1
EPA 25	12/4/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.21	-0.1	-0.05	-0.001	-0.1	0.0877	- 1.2	-0.2	-1	-1
EPA 25	1/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.45	-0.1	-0.05	-0.001	-0.1	0.0872	- 1.2	-0.2	-1	-1
EPA 25	2/5/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.61	-0.1	-0.05	-0.001	-0.1	0.0814	2.8	-0.2	-1	-1
EPA 25	3/5/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.69	-0.1	-0.05	-0.001	-0.1	0.0975	- 2.1	-0.2	-1	-1
EPA 25	4/2/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.6	-0.1	-0.05	-0.001	-0.1	0.0939	- 1.2	-0.2	-1	-1
EPA 25	5/7/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.77	-0.1	-0.05	-0.001	-0.1	0.0994	- 1.2	-0.2	-1	-1
EPA 25	6/4/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.49	-0.1	-0.05	-0.001	-0.1	0.0864	- 1.2	-0.2	-1	-1

TAB A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
EPA 25	7/9/2002	6,852.25	6.9	7.84	4,130	719	230	165	6.6	850	1,760	106	0.2	92.5	-0.001
EPA 25	10/7/2002	6,852.00	7.08	7.67	3,510	647	212	160	6.9	802	1,560	70	0.16	82.1	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
EPA 25	7/9/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.45	-0.1	-0.05	-0.001	-0.1	0.087	- 1.2	-0.2	-1	-1
EPA 25	10/7/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.62	-0.1	-0.05	-0.001	-0.1	0.0778	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
EPA Standard		NA	NA	NA	4,800	NA	NA	NA	NA	NA	2,125	250	NA	190	NA
EPA 27	7/29/1989	6,864.90	8	7.26	4,537	554	221	371	23.5	171	2,253	76.8	0.12	216	-0.001
EPA 27	10/4/1989	6,864.80	8.1	7.8	4,734	550	242	329	22.4	196	2,266	74.5	0.09	150	-0.001
EPA 27	1/23/1990	6,865.00	8	7.4	4,680	538	268	340	17	223	2,217	78.8	0.11	180	-0.001
EPA 27	4/18/1990	6,864.70	7.9	7.55	4,775	530	260	340	13.4	283	2,160	79.6	0.08	182	-0.001
EPA 27	7/13/1990	6,864.10	8.9	7.74	4,731	562	239	348	20.4	167	2,073	79.7	-0.05	202	-0.001
EPA 27	10/16/1990	6,864.20	8.2	7.78	4,786	558	238	372	16.8	183	2,324	89.4	0.05	196	-0.001
EPA 27	1/10/1991	6,864.30	7.7	7.6	4,274	574	288	381	17.1	143	2,074	83.8	0.13	171	-0.001
EPA 27	4/16/1991	6,864.30	7.6	8.12	4,727	547	228	350	16.3	179	2,296	85.3	-0.05	256	-0.001
EPA 27	7/9/1991	6,863.80	7.5	7.68	4,925	528	253	326	14.9	121	2,420	81.3	-0.05	200	-0.001
EPA 27	10/23/1991	6,863.30	7.7	7.7	4,461	452	146	359	19.4	122	2,229	98	0.31	141	-0.001
EPA 27	1/23/1992	6,863.00	7.8	7.47	4,570	519	196	335	13	129	2,103	92.1	-0.05	125	-0.001
EPA 27	4/3/1992	6,862.90	7.3	7.87	4,087	581	248	416	18.7	208	2,443	82.5	-0.05	194	-0.001
EPA 27	7/16/1992	6,862.10	8.2	7.76	4,239	454	225	441	17	73	2,224	99	-0.05	150	-0.001
EPA 27	10/15/1992	6,861.60	7.9	7.76	4,534	566	213	374	17.3	75	2,302	99.1	-0.05	147	-0.001
EPA 27	1/12/1993	6,861.00	7.9	7.85	4,496	571	217	395	16.1	116	2,386	98.9	-0.05	195	-0.001
EPA 27	4/15/1993	6,861.00	7.9	7.86	4,612	472	237	389	10.2	96	2,260	111	0.07	150	-0.001
EPA 27	7/21/1993	6,860.40	8.5	7.87	4,408	519	198	387	15.5	82	2,195	104	-0.05	141	-0.001
EPA 27	10/12/1993	6,858.70	8.1	6.79	3,844	551	183	314	14.1	75	2,175	101	0.05	92.5	-0.001
EPA 27	1/11/1994	6,859.70	8.1	7.75	4,266	501	183	320	13	103	2,181	97.8	-0.05	122	-0.001
EPA 27	4/19/1994	6,859.30	6.5	8.12	4,020	509	172	373	15.3	81	2,073	107	0.2	143	-0.001
EPA 27	7/27/1994	6,859.00	8	7.77	3,954	568	143	307	16.7	59	2,060	108	-0.05	148	-0.001
EPA 27	10/11/1994	6,858.60	8	7.83	4,264	565	223	377	12.1	68	2,245	108	0.09	141	-0.001
EPA 27	1/11/1995	6,858.20	8.3	7.54	4,030	552	151	337	16.3	75	2,066	113	0.16	190	-0.001
EPA 27	4/11/1995	6,858.10	7.5	8.02	4,125	541	169	354	15.6	63	2,054	118	0.21	149	-0.001
EPA 27	7/11/1995	6,857.80	7.9	7.9	3,897	550	134	332	15.6	65	1,872	118	0.05	129	-0.001
EPA 27	10/10/1995	6,857.40	7.9	8.18	3,760	535	128	360	18.2	54	1,796	108	0.05	121	-0.001
EPA 27	1/9/1996	6,857.10	7.9	7.9	3,743	530	126	328	16.1	62	1,929	116	-0.05	132	-0.001
EPA 27	4/10/1996	6,856.80	8.4	7.97	3,875	552	133	324	14.1	58	2,080	126	0.07	123	-0.001
EPA 27	7/17/1996	6,856.50	7.8	7.82	3,730	560	118	348	16.4	46	2,009	124	-0.05	143	-0.001
EPA 27	10/8/1996	6,856.20	7.7	8.04	3,720	524	127	343	16.5	40	1,865	112	0.13	121	-0.001
EPA 27	1/28/1997	6,855.90	7.7	7.64	3,720	530	135	336	15.4	40	1,910	156	0.18	113	-0.001
EPA 27	4/15/1997	6,855.90	7.1	7.65	3,660	564	111	332	16.8	31	1,876	120	0.06	139	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
EPA 27	7/29/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	-0.01	0.03	-0.05	0.004	-0.1	0.0138	2.3	3.2	-1	-1
EPA 27	10/4/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	-0.01	0.03	-0.05	0.006	-0.1	0.032	2.4	-0.2	-1	1.1
EPA 27	1/23/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.01	-0.1	-0.05	0.005	-0.1	0.046	- 1.7	1.4	-1	1.7
EPA 27	4/18/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.01	-0.1	-0.05	0.005	-0.1	0.027	- 1.2	-0.2	-1	-1
EPA 27	7/13/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	0.002	-0.1	0.0213	- 1.2	0.8	1	-1
EPA 27	10/16/1990	-0.1	-0.001	-0.05	-0.01	0.04	-0.05	-0.01	-0.1	-0.05	0.003	-0.1	0.0282	- 1.2	-0.2	-1	-1
EPA 27	1/10/1991	-0.1	-0.001	-0.01	-0.01	0.02	-0.05	0.01	-0.1	-0.05	0.006	-0.1	0.0286	- 1.8	-0.2	-1	1.2
EPA 27	4/16/1991	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	0.004	-0.1	0.024	- 1.2	-0.2	1.3	-1
EPA 27	7/9/1991	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.1	-0.05	0.005	-0.1	0.0347	- 1.4	-0.2	-1	-1
EPA 27	10/23/1991	-0.1	-0.001	-0.01	-0.01	0.01		0.01	-0.1	-0.05	0.006	-0.1	0.032	- 1.2	-0.2	-1	-1
EPA 27	1/23/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	0.001	-0.1	0.039	1.5	-0.2	1.6	-1
EPA 27	4/3/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	0.096	-0.1	0.014	- 1.2	-0.2	2.4	-1
EPA 27	7/16/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	0.006	-0.1	0.024	3.1	-0.2	-1	-1
EPA 27	10/15/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.1	-0.05	0.007	-0.1	0.029	6.0	-0.2	2.2	-1
EPA 27	1/12/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	0.031	-0.1	0.011	- 1.2	-0.2	-1	-1
EPA 27	4/15/1993	-0.1	0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	0.011	-0.1	0.023	- 1.2	-0.2	1.9	-1
EPA 27	7/21/1993	-0.1	0.001	-0.01	-0.01	0.01	-0.05	0.02	-0.1	-0.05	0.015	-0.1	0.018	- 1.2	-0.2	-1	-1
EPA 27	10/12/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.1	-0.05	0.011	-0.1	0.019	- 1.5	-0.2	1.9	-1
EPA 27	1/11/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.1	-0.05	0.01	-0.1	0.023	- 1.9	-0.2	-1	3.5
EPA 27	4/19/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	0.009	-0.1	0.019	- 1.2	-0.2	-1	-1
EPA 27	7/27/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	0.007	-0.1	0.014	4.7	-0.2	1.9	6.8
EPA 27	10/11/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	0.008	-0.1	0.021	- 1.3	-0.2	1	-1
EPA 27	1/11/1995	-0.1	0.002	-0.01	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	0.011	-0.1	0.017	- 2.8	-0.2	3	4.3
EPA 27	4/11/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.1	-0.05	0.011	-0.1	0.014	- 1.2	-0.2	-1	-1
EPA 27	7/11/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.1	-0.05	0.012	-0.1	0.011	- 1.2	-0.2	-1	-1
EPA 27	10/10/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	0.035	-0.1	0.0094	1.7	-0.2	-1	-1
EPA 27	1/9/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	0.038	-0.1	0.011	- 1.2	-0.2	-1	-1
EPA 27	4/10/1996	-0.1	0.002	-0.01	-0.01	-0.01	-0.05	0.01	-0.1	-0.05	0.009	-0.1	0.013	- 1.2	-0.2	-1	-1
EPA 27	7/17/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	-0.001	-0.1	0.01	- 3.1	-0.2	-1	-1
EPA 27	10/8/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	0.009	-0.1	0.012	- 1.2	-0.2	-1	-1
EPA 27	1/28/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.08	-0.1	-0.05	0.015	-0.1	0.006	- 1.2	-0.2	-1	-1
EPA 27	4/15/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	0.042	-0.1	0.003	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
EPA 27	7/15/1997	6,855.60	7.5	7.58	3,710	547	127	317	16.3	31	1,790	123	0.08	116	-0.001

TAB A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
EPA 27	7/15/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	0.019	-0.1	0.006	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
EPA Standard		NA	NA	NA	4,800	NA	NA	NA	NA	NA	2,125	250	NA	190	NA
EPA 28	7/29/1989	6,867.90	6.9	6.6	4,825	548	458	222	10.5	671	2,622	110	0.05	74	-0.001
EPA 28	10/4/1989	6,867.70	6.5	7.2	4,989	565	475	216	14.1	738	2,720	107	-0.05	113	-0.001
EPA 28	1/23/1990	6,867.70	6.6	6.8	4,904	525	468	227	10.4	756	2,434	116	0.09	75	-0.001
EPA 28	4/18/1990	6,867.30	6.8	7.12	4,977	542	428	207	9.9	815	2,330	117	0.12	69	-0.001
EPA 28	7/13/1990	6,866.20	6.7	7.21	5,037	541	440	212	10	821	2,210	126	-0.05	74.2	-0.001
EPA 28	10/16/1990	6,866.70	6.5	7.21	5,306	548	231	387	17.7	522	3,005	111	-0.05	62.5	-0.001
EPA 28	1/10/1991	6,866.70	6.6	7.17	5,138	542	487	232	13.8	627	2,732	115	-0.05	68	-0.001
EPA 28	4/16/1991	6,866.70	6.5	7.76	5,194	497	470	222	11.8	632	2,824	123	-0.05	88	-0.001
EPA 28	7/9/1991	6,866.20	6.4	7.07	5,350	477	463	208	10.1	551	2,940	107	-0.05	68	-0.001
EPA 28	10/23/1991	6,865.40	6.4	7.5	5,170	488	499	225	11.4	534	2,792	114	0.28	52.3	-0.001
EPA 28	1/23/1992	6,865.10	6.4	7.37	5,268	490	448	213	10.2	583	2,786	111	0.14	40.6	-0.001
EPA 28	4/3/1992	6,865.30	6.5	7.46	4,613	505	448	263	12.6	612	2,934	110	0.22	72.1	-0.001
EPA 28	7/16/1992	6,864.40	6.6	7.2	5,042	517	489	246	13.6	561	2,916	110	0.1	35.4	-0.001
EPA 28	10/15/1992	6,863.20	6.7	7.21	5,249	509	486	236	10.9	550	3,015	106	-0.05	55.5	-0.001
EPA 28	1/12/1993	6,862.60	6.6	7.16	5,095	546	482	244	13.9	584	2,973	110	-0.05	77.9	-0.001
EPA 28	4/15/1993	6,863.00	6.7	7.49	5,230	534	483	251	10	744	2,981	122	0.08	63	-0.001
EPA 28	7/21/1993	6,862.20	6.7	7.49	4,999	546	474	249	12.5	561	2,968	98.9	-0.05	49.5	-0.001
EPA 28	10/12/1993	6,859.60	7	7.18	5,002	525	450	223	10.6	603	2,913	109	-0.05	48.6	-0.001
EPA 28	1/11/1994	6,861.10	7	7.73	5,378	544	473	236	10.6	562	3,132	101	-0.05	52.8	-0.001
EPA 28	4/19/1994	6,860.90	6.7	7.71	5,077	481	452	232	12.6	527	2,901	108	0.06	56.2	-0.001
EPA 28	7/27/1994	6,860.50	6.7	7.45	5,476	611	527	197	12.7	559	3,177	102	-0.05	59.2	-0.001
EPA 28	10/11/1994	6,860.00	6.7	7.69	5,491	545	574	241	13	614	3,325	97.5	0.06	38.6	-0.001
EPA 28	1/11/1995	6,859.70	6.7	7.65	5,614	510	576	202	12.9	586	3,257	96.7	0.13	48.2	-0.001
EPA 28	4/11/1995	6,859.70	6.7	7.39	5,089	532	496	217	11.8	601	3,028	124	0.15	28.6	-0.001
EPA 28	7/11/1995	6,859.30	6.9	7.85	4,851	535	505	219	11.5	554	2,850	115	-0.05	51.7	-0.001
EPA 28	10/10/1995	6,858.80	6.9	7.94	4,825	520	495	229	12	549	2,802	101	-0.05	47.2	-0.001
EPA 28	1/9/1996	6,858.40	7	7.29	5,029	535	520	207	11.6	528	2,979	112	-0.05	55.3	-0.001
EPA 28	4/10/1996	6,858.00	7.1	7.73	5,273	508	500	209	10.8	556	3,165	124	0.07	48.5	-0.001
EPA 28	7/17/1996	6,857.80	7	7.08	5,267	525	550	227	12.1	531	3,045	112	-0.05	125	-0.001
EPA 28	10/8/1996	6,857.60	7	7.23	5,260	538	498	223	11.8	360	2,849	108	0.07	47.3	-0.001
EPA 28	1/28/1997	6,857.40	7	7.73	5,270	545	500	194	11.2	642	2,935	157	0.06	47.2	-0.001
EPA 28	4/15/1997	6,857.30	7	7.61	5,350	574	555	213	12.1	544	3,280	116	-0.05	52.6	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
EPA 28	7/29/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.2	-0.1	-0.05	0.002	-0.1	0.0313	2.7	6.9	2.6	-1
EPA 28	10/4/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.19	-0.1	-0.05	0.002	-0.1	0.041	- 3.7	4.6	-1	8.4
EPA 28	1/23/1990	-0.1	-0.001	-0.05	-0.01	0.01	-0.05	0.18	-0.1	-0.05	0.002	-0.1	0.045	3.4	1.8	1.3	3.2
EPA 28	4/18/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.17	-0.1	-0.05	0.001	-0.1	0.26	- 1.8	-0.2	-1	1.3
EPA 28	7/13/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.17	-0.1	-0.05	-0.001	-0.1	0.0378	- 1.4	-0.2	-1	-1
EPA 28	10/16/1990	-0.1	-0.001	-0.05	-0.01	0.01	-0.05	0.23	-0.1	-0.05	-0.001	-0.1	0.0206	- 1.8	-0.2	-1	-1
EPA 28	1/10/1991	-0.1	-0.001	-0.01	0.01	0.02	-0.05	0.21	-0.1	-0.05	0.002	-0.1	0.0268	- 3.4	-0.2	6.3	3.1
EPA 28	4/16/1991	-0.1	-0.001	-0.01	0.01	-0.01	-0.05	0.18	-0.1	-0.05	-0.001	-0.1	0.027	4.0	-0.2	-1	-1
EPA 28	7/9/1991	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.2	-0.1	-0.05	-0.001	-0.1	0.0302	2.5	-0.2	-1	2
EPA 28	10/23/1991	-0.1	-0.001	-0.01	-0.01	0.01		0.21	-0.1	-0.05	-0.001	-0.1	0.05	- 1.7	-0.2	-1	-1
EPA 28	1/23/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.23	-0.1	-0.05	0.001	-0.1	0.024	4.3	-0.2	2.7	-1
EPA 28	4/3/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.23	-0.1	-0.05	0.008	-0.1	0.019	1.6	-0.2	-1	-1
EPA 28	7/16/1992	-0.1	-0.001	-0.01	-0.01	0.02	-0.05	0.23	-0.1	-0.05	0.001	-0.1	0.023	- 2.7	-0.2	-1	1.9
EPA 28	10/15/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.21	-0.1	-0.05	-0.001	-0.1	0.029	- 1.9	-0.2	2.6	-1
EPA 28	1/12/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.24	-0.1	-0.05	0.016	-0.1	0.026	3.7	-0.2	-1	-1
EPA 28	4/15/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.24	-0.1	-0.05	-0.001	-0.1	0.028	- 1.6	-0.2	-1	-1
EPA 28	7/21/1993	-0.1	-0.001	-0.01	-0.01	0.01	-0.05	0.25	-0.1	-0.05	-0.001	-0.1	0.029	- 1.5	-0.2	-1	-1
EPA 28	10/12/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.24	-0.1	-0.05	0.001	-0.1	0.038	- 2.0	-0.2	2.8	-1
EPA 28	1/11/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.27	-0.1	-0.05	-0.001	-0.1	0.027	4.6	-0.2	-1	7.7
EPA 28	4/19/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.32	-0.1	-0.05	-0.001	-0.1	0.026	- 8.0	-0.2	2	7.2
EPA 28	7/27/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.25	-0.1	-0.05	0.002	-0.1	0.019	- 1.1	-0.2	-1	-1
EPA 28	10/11/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.26	-0.1	-0.05	-0.001	-0.1	0.024	- 4.7	-0.2	-1	3.9
EPA 28	1/11/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.3	-0.1	-0.05	-0.001	-0.1	0.026	4.9	-0.2	2.6	6.9
EPA 28	4/11/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.27	-0.1	-0.05	-0.001	-0.1	0.025	- 1.4	-0.2	-1	-1
EPA 28	7/11/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.25	-0.1	-0.05	0.002	-0.1	0.026	- 2.3	-0.2	1.6	6.9
EPA 28	10/10/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.23	-0.1	-0.05	0.002	-0.1	0.027	2.0	0.5	-1	1.5
EPA 28	1/9/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.29	-0.1	-0.05	0.005	-0.1	0.027	- 1.6	-0.2	-1	-1
EPA 28	4/10/1996	-0.1	0.002	-0.01	-0.01	-0.01	-0.05	0.27	-0.1	-0.05	-0.001	-0.1	0.033	- 1.2	-0.2	-1	-1
EPA 28	7/17/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.22	-0.1	-0.05	-0.001	-0.1	0.032	- 2.8	-0.2	-1	-1
EPA 28	10/8/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.27	-0.1	-0.05	-0.001	-0.1	0.038	- 2.0	-0.2	-1	-1
EPA 28	1/28/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.27	-0.1	-0.05	-0.001	-0.1	0.023	- 1.2	-0.2	-1	-1
EPA 28	4/15/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.24	-0.1	-0.05	0.005	-0.1	0.022	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
EPA Standard		NA	NA	NA	4,800	NA	NA	NA	NA	NA	2,125	250	NA	190	NA
EPA 28	7/15/1997	6,857.00	6.8	7.83	5,360	539	506	206	11.7	531	2,810	119	0.05	44.6	-0.001
EPA 28	10/15/1997	6,857.10	6.7	7.83	5,290	585	543	217	11.5	667	3,010	145	0.05	49.5	-0.001
EPA 28	1/20/1998	6,857.20	6.7	8.07	5,330	531	514	224	12.8	540	3,250	121	0.16	51.4	-0.001
EPA 28	4/14/1998	6,856.90	7	7.41	5,430	549	556	221	12.6	539	2,990	95.4	-0.05	44.5	-0.001
EPA 28	7/14/1998	6,856.70	7	7.88	5,630	538	543	228	12.8	544	2,900	101	-0.05	41.7	-0.001
EPA 28	10/13/1998	6,858.40	6.82	7.94	5,230	526	525	227	12.4	535	3,050	104	0.11	39.5	-0.001
EPA 28	1/12/1999	6,917.90	6.9	8.02	5,380	468	504	204	12.8	538	3,100	101	0.08	43.7	-0.001
EPA 28	4/13/1999	6,857.70	6.8	8.05	5,360	544	550	214	11.9	533	2,930	106	0.08	45.1	-0.001
EPA 28	7/20/1999	6,856.36	6.9	7.94	5,390	528	556	235	15	557	3,010	106	0.05	40	-0.001
EPA 28	10/12/1999	6,857.30	6.9	7.98	5,210	532	518	190	11.3	542	2,930	108	-0.05	40.4	-0.001
EPA 28	1/11/2000	6,856.80	6.8	8.07	5,280	498	514	192	12.8	534	2,820	99.6	0.05	39.1	-0.001
EPA 28	5/9/2000	6,856.60	6.6	7.77	5,080	503	477	201	11.3	635	2,600	115	-0.05	49.5	-0.001
EPA 28	7/17/2000	6,856.40	6.66	7.7	5,190	534	499	195	11.4	636	2,570	119	-0.05	46.1	-0.001
EPA 28	10/9/2000	6,856.15	6.9	7.7	5,110	460	446	210	13.4	637	2,500	110	0.16	52.3	-0.001
EPA 28	1/8/2001	6,856.15	6.88	7.66	5,110	538	512	179	11.4	633	2,850	116	-0.05	51	-0.001
EPA 28	2/5/2001	6,856.40	7.01	7.56	5,090	615	567	178	12.2	636	3,060	107	-0.05	47.6	-0.001
EPA 28	3/5/2001	6,856.35	7.56	7.53	4,670	535	515	155	12.3	644	2,910	103	-0.05	49.4	-0.001
EPA 28	4/10/2001	6,856.70	7.13	7.42	4,950	596	546	188	12.1	650	3,010	117	-0.05	50.1	-0.001
EPA 28	5/8/2001	6,856.70	6.81	7.62	5,120	520	489	190	11.5	647	2,480	118	0.09	53.6	-0.001
EPA 28	6/5/2001	6,856.75	6.84	7.35	4,510	546	532	191	10.3	635	2,870	113	0.07	42.3	-0.001
EPA 28	7/10/2001	6,856.90	6.94	7.33	5,220	554	542	208	11.6	628	2,690	97	0.05	48.3	-0.001
EPA 28	8/7/2001	6,856.90	6.72	7.7	5,220	510	500	190	12	625	2,600	120	0.05	42	-0.001
EPA 28	9/11/2001	6,857.05	6.74	7.5	5,100	520	500	186	12.1	649	2,600	143	0.05	55	-0.001
EPA 28	10/1/2001	6,857.25	6.86	7.4	5,210	510	500	184	12.2	652	2,500	148	0.05	48.8	-0.001
EPA 28	11/6/2001	6,857.25	6.75	7.6	5,190	554	525	193	12.8	644	2,820	143	0.05	50	-0.001
EPA 28	12/4/2001	6,857.40	6.91	7.5	5,190	517	488	170	11	645	2,560	123	0.05	48	-0.001
EPA 28	1/8/2002	6,857.40	6.96	7.5	5,170	603	538	182	12.3	658	3,010	150	-0.05	44.8	-0.001
EPA 28	2/5/2002	6,857.60	7.01	7.5	5,230	586	515	193	12.2	652	2,830	136	0.1	43.1	-0.001
EPA 28	3/5/2002	6,857.50	6.81	7.6	5,160	549	508	208	12.4	682	2,870	137	0.05	45.9	-0.001
EPA 28	4/2/2002	6,857.70	6.74	7.65	5,140	572	520	206	13.6	675	2,960	134	0.06	42.1	-0.001
EPA 28	5/7/2002	6,857.65	6.8	7.58	5,200	546	507	210	13.1	652	2,780	119	-0.05	43.9	-0.001
EPA 28	6/4/2002	6,857.79	6.74	7.83	5,150	531	485	192	11.4	656	2,660	116	0.07	44.9	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
EPA 28	7/15/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.19	-0.1	-0.05	0.001	-0.1	0.025	- 1.2	-0.2	-1	-1
EPA 28	10/15/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.23	-0.1	-0.05	0.002	-0.1	0.035	- 5.1	-0.2	5.5	-1
EPA 28	1/20/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.23	-0.1	-0.05	-0.001	-0.1	0.028	- 1.7	-0.2	-1	-1
EPA 28	4/14/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.31	-0.1	-0.05	-0.001	-0.1	0.0261	- 2.6	-0.2	-1	2.9
EPA 28	7/14/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.31	-0.1	-0.05	-0.001	-0.1	0.0431	- 1.7	-0.2	-1	-1
EPA 28	10/13/1998	-0.1	-0.001	-0.01	0.005	-0.01	-0.05	0.18	-0.1	-0.05	0.001	-0.1	0.0315	- 1.2	-0.2	-1	-1
EPA 28	1/12/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.3	-0.1	-0.05	-0.001	-0.1	0.0324	- 1.6	-0.2	-1	-1
EPA 28	4/13/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.32	-0.1	-0.05	-0.001	-0.1	0.0251	- 1.2	-0.2	-1	-1
EPA 28	7/20/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.26	-0.1	-0.05	0.001	-0.1	0.0282	- 1.6	-0.2	-1	1.6
EPA 28	10/12/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.17	-0.1	-0.05	-0.001	-0.1	0.03	- 1.7	-0.2	-1	-1
EPA 28	1/11/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.31	-0.1	-0.05	0.001	-0.1	0.0256	5.2	-0.2	-1	3
EPA 28	5/9/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.5	-0.1	-0.05	-0.001	-0.1	0.0445	2.5	-0.2	14.2	-1
EPA 28	7/17/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.39	-0.1	-0.05	-0.001	-0.1	0.0375	- 2.0	-0.2	-1	-1
EPA 28	10/9/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.37	-0.1	-0.05	-0.001	-0.1	0.042	- 1.5	-0.2	-1	-1
EPA 28	1/8/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.42	-0.1	-0.05	-0.001	-0.1	0.039	- 1.2	-0.2	-1	-1
EPA 28	2/5/2001	0.6	-0.001	-0.01	-0.005	-0.01	-0.05	0.42	-0.1	-0.05	-0.001	-0.1	0.042	- 1.5	-0.2	-1	-1
EPA 28	3/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.45	-0.1	-0.05	-0.001	-0.1	0.0398	- 1.2	-0.2	-1	-1
EPA 28	4/10/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.43	-0.1	-0.05	-0.001	-0.1	0.037	2.5	-0.2	-1	-1
EPA 28	5/8/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.47	-0.1	-0.05	-0.001	-0.1	0.042	- 1.2	-0.2	-1	-1
EPA 28	6/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.47	-0.1	-0.05	0.001	-0.1	0.038	- 1.4	-0.2	-1	-1
EPA 28	7/10/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.48	-0.1	-0.05	-0.001	-0.1	0.0403	- 1.7	-0.2	-1	-1
EPA 28	8/7/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.48	-0.1	-0.05	-0.001	-0.1	0.043	2.8	-0.2	-1	-1
EPA 28	9/11/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.42	-0.1	-0.05	-0.001	-0.1	0.037	- 1.3	-0.2	-1	-1
EPA 28	10/1/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.4	-0.1	-0.05	-0.001	-0.1	0.0374	- 1.7	-0.2	-1	-1
EPA 28	11/6/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.44	-0.1	-0.05	-0.001	-0.1	0.0354	- 1.6	-0.2	-1	-1
EPA 28	12/4/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.42	-0.1	-0.05	-0.001	-0.1	0.0358	- 1.2	-0.2	-1	-1
EPA 28	1/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.43	-0.1	-0.05	-0.001	-0.1	0.036	- 1.6	-0.2	-1	-1
EPA 28	2/5/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.44	-0.1	-0.05	-0.001	-0.1	0.0291	- 1.7	-0.2	-1	-1
EPA 28	3/5/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.59	-0.1	-0.05	-0.001	-0.1	0.0519	- 1.2	-0.2	-1	-1
EPA 28	4/2/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.46	-0.1	-0.05	-0.001	-0.1	0.0397	2.9	-0.2	-1	-1
EPA 28	5/7/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.47	-0.1	-0.05	-0.001	-0.1	0.0388	- 1.9	-0.2	-1	-1
EPA 28	6/4/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.5	-0.1	-0.05	-0.001	-0.1	0.0378	- 2.7	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
EPA 28	7/9/2002	6,857.60	6.8	7.58	5,250	549	524	202	13.1	683	2,850	120	-0.05	43.4	-0.001
EPA 28	10/8/2002	6,857.33	6.77	7.6	5,190	504	480	192	11.2	675	2,680	113	0.05	45.3	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
EPA 28	7/9/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.41	-0.1	-0.05	-0.001	-0.1	0.0464	- 1.8	-0.2	-1	-1
EPA 28	10/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.44	-0.1	-0.05	-0.001	-0.1	0.0329	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
GW 1	7/19/1989	6,869.00	6.9	7.32	5,134	910	412	328	2.7	1,415	2,042	220	0.08	120	-0.001
GW 1	10/16/1989	6,868.90	7	7.02	5,376	856	431	331	3.8	2,030	1,931	236	0.13	110	-0.001
GW 1	1/10/1990	6,868.30	6.4	6.54	5,658	774	408	349	2.81	1,903	2,079	239	0.25	111	-0.001
GW 1	4/5/1990	6,868.20	6.3	6.98	5,732	818	430	350	2.8	2,001	2,118	243	0.13	119	-0.001
GW 1	7/3/1990	6,867.20	6.4	6.92	6,154	953	501	343	4.5	2,098	2,252	241	-0.05	109	-0.001
GW 1	10/3/1990	6,867.60	6.3	7.26	5,879	780	425	350	4	1,785	2,214	238	-0.05	68.3	-0.001
GW 1	1/16/1991	6,867.60	6.4	7.12	6,092	909	483	380	3.3	1,573	2,373	247	-0.05	97.5	-0.001
GW 1	4/2/1991	6,867.70	6.3	7.1	5,780	817	459	344	3.5	1,478	2,476	237	0.05	108	-0.001
GW 1	7/17/1991	6,866.80	6.5	7.21	6,236	821	478	326	4.8	1,893	2,626	236	-0.05	90.9	-0.001
GW 1	10/15/1991	6,866.10	6.3	6.9	6,275	900	519	349	3.8	2,020	2,460	247	-0.05	57.6	-0.001
GW 1	1/15/1992	6,865.90	6.3	7.05	5,446	695	457	360	3.9	1,617	2,445	239	-0.05	78.2	-0.001
GW 1	4/8/1992	6,865.70	6.2	7.43	4,775	769	481	364	4.4	1,813	2,538	217	0.08	75.8	-0.001
GW 1	7/8/1992	6,864.80	6	7.37	4,964	801	403	454	5.6	1,610	2,493	231	0.13	115	-0.001
GW 1	10/6/1992	6,863.70	6.3	6.9	6,008	800	504	389	3.2	1,809	2,370	220	-0.05	110	-0.001
GW 1	1/7/1993	6,863.40	6.4	7.73	5,223	676	421	348	5.3	1,807	2,206	234	0.06	117	-0.001
GW 1	4/7/1993	6,863.90	6.4	7.22	5,681	681	401	372	5.6	1,579	2,269	199	-0.05	119	-0.001
GW 1	7/14/1993	6,862.70	6.4	7.23	5,630	807	438	337	4.3	1,610	2,370	211	0.05	118	-0.001
GW 1	10/7/1993	6,862.20	6.7	7.29	5,196	719	433	310	3	1,792	1,952	228	-0.05	124	-0.001
GW 1	1/6/1994	6,861.80	6.8	7.38	5,051	704	394	335	2.9	1,635	2,075	218	0.11	101	-0.001
GW 1	4/12/1994	6,861.60	6.7	7.15	5,216	685	409	316	3.9	1,485	2,256	175	0.3	115	-0.001
GW 1	7/21/1994	6,861.10	6.7	6.97	5,415	828	417	283	5.3	1,519	2,371	185	0.13	118	-0.001
GW 1	10/5/1994	6,860.70	6.5	7.45	5,567	745	446	323	5.1	14	2,250	177	0.23	111	-0.001
GW 1	1/4/1995	6,860.50	6.5	7.39	5,732	788	441	295	4.7	1,364	2,483	166	0.72	104	-0.001
GW 1	4/5/1995	6,860.30	6.6	7.03	5,397	698	420	282	3.9	1,443	2,400	186	0.36	110	-0.001
GW 1	7/6/1995	6,859.90	6.5	7.65	5,180	665	428	285	3.9	1,183	2,255	170	0.1	99.4	-0.001
GW 1	10/3/1995	6,859.30	6.6	7.53	5,292	640	419	270	3.2	1,218	2,265	137	0.29	105	-0.001
GW 1	1/3/1996	6,858.90	6.6	6.8	5,086	605	405	274	3.5	1,211	2,079	135	0.07	115	-0.001
GW 1	4/2/1996	6,858.60	6.6	7.55	5,078	594	388	274	3.7	1,160	2,162	140	0.09	116	-0.001
GW 1	7/7/1996	6,858.40	6.3	7.08	5,119	605	395	290	3.6	1,169	2,155	160	0.21	109	0.00104
GW 1	10/1/1996	6,858.40	6.5	6.99	5,080	624	422	264	3.9	1,170	2,063	158	0.1	116	-0.001
GW 1	1/22/1997	6,858.10	6.4	7.36	4,790	625	415	266	4.16	1,130	2,003	148	0.1	107	-0.001
GW 1	4/8/1997	6,858.30	6.6	7.9	4,830	636	403	241	4.2	1,080	2,047	173	0.24	117	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
GW 1	7/19/1989	-0.1	-0.001	-0.05	-0.01	-0.05	-0.05	0.05	-0.1	-0.05	0.002	-0.1	0.0954	- 1.6	-0.2	1.7	5.9
GW 1	10/16/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.08	-0.1	-0.05	0.001	-0.1	0.0979	- 1.4	4	1.5	3.7
GW 1	1/10/1990	-0.1	0.001	-0.05	-0.01	-0.01	-0.05	0.09	-0.1	-0.05	0.002	-0.1	0.09	2.1	-0.2	1.3	1.2
GW 1	4/5/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.1	-0.1	-0.05	0.002	-0.1	0.087	- 1.5	-0.2	1.2	0.8
GW 1	7/3/1990	-0.1	-0.001	-0.05	-0.01	0.01	-0.05	0.1	-0.1	-0.05	0.001	-0.1	0.116	- 1.2	-0.2	-1	-1
GW 1	10/3/1990	-0.1	0.003	-0.05	0.01	0.03	-0.05	0.12	-0.1	-0.05	0.001	-0.1	0.08	- 1.7	-0.2	-1	-1
GW 1	1/16/1991	0.18	-0.001	-0.01	-0.01	0.02	-0.05	0.12	-0.1	-0.05	0.001	-0.1	0.111	- 1.2	-0.2	-1	-1
GW 1	4/2/1991	0.19	-0.001	-0.01	0.01	0.02	-0.05	0.13	-0.1	-0.05	0.001	-0.1	0.13	- 1.4	-0.2	-1	-1
GW 1	7/17/1991	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.15	-0.1	-0.05	0.002	-0.1	0.104	- 1.2	-0.2	2.3	-1
GW 1	10/15/1991	0.36	-0.001	-0.01	-0.01	0.01	-0.05	0.12	-0.1	-0.05	-0.001	-0.1	0.15	4.9	-0.2	-1	-1
GW 1	1/15/1992	-0.1	-0.001	-0.01	-0.01	0.01	-0.05	0.13	-0.1	-0.05	-0.001	-0.1	0.105	- 1.3	-0.2	-1	-1
GW 1	4/8/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.12	-0.1	-0.05	-0.001	-0.1	0.094	- 1.3	-0.2	-1	-1
GW 1	7/8/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.11	-0.1	-0.05	0.001	-0.1	0.07	2.0	-0.2	2.2	-1
GW 1	10/6/1992	0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.13	-0.1	-0.05	0.007	-0.1	0.049	- 1.8	-0.2	1.2	-1
GW 1	1/7/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.11	-0.1	-0.05	0.007	-0.1	0.097	2.9	-0.2	-1	-1
GW 1	4/7/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.14	-0.1	-0.05	0.002	-0.1	0.1	- 4.5	-0.2	2.2	3.9
GW 1	7/14/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.14	-0.1	-0.05	0.004	-0.1	0.099	- 1.9	-0.2	3.3	-1
GW 1	10/7/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.13	-0.1	-0.05	0.005	-0.1	0.075	4.4	-0.2	-1	-1
GW 1	1/6/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.11	-0.1	-0.05	-0.001	-0.1	0.069	6.8	-0.2	-1	9.5
GW 1	4/12/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.1	-0.1	-0.05	0.001	-0.1	0.089	1.9	-0.2	1.9	2.8
GW 1	7/21/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.12	-0.1	-0.05	0.001	-0.1	0.082	- 2.2	-0.2	1.1	1.4
GW 1	10/5/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.09	-0.1	-0.05	0.001	-0.1	0.082	- 1.2	-0.2	3.1	-1
GW 1	1/4/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.11	-0.1	-0.05	-0.001	-0.1	0.069	3.3	-0.2	-1	4.6
GW 1	4/5/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.09	-0.1	-0.05	-0.001	-0.1	0.074	3.9	-0.2	-1	4.9
GW 1	7/6/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.1	-0.05	0.002	-0.1	0.0623	- 1.4	-0.2	-1	-1
GW 1	10/3/1995	-0.1	0.003	-0.01	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	0.019	-0.1	0.0559	- 1.2	-0.2	-1	-1
GW 1	1/3/1996	-0.1	0.002	-0.01	-0.01	-0.01	-0.05	0.07	-0.1	-0.05	0.027	-0.1	0.058	- 1.2	-0.2	-1	-1
GW 1	4/2/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	-0.001	-0.1	0.05	- 1.2	-0.2	-1	-1
GW 1	7/7/1996	-0.1	0.002	-0.01	-0.01	-0.01	-0.05	0.07	-0.1	-0.05	0.006	-0.1	0.06	- 1.3	-0.2	-1	-1
GW 1	10/1/1996	-0.1	0.001	-0.01	-0.01	-0.01	-0.05	0.07	-0.1	-0.05	0.002	-0.1	0.051	- 1.2	-0.2	-1	-1
GW 1	1/22/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.04	-0.1	-0.05	-0.001	-0.1	0.043	- 1.2	-0.2	-1	-1
GW 1	4/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.06	-0.1	-0.05	0.015	-0.1	0.049	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
EPA Standard		NA	NA	NA	4,800	NA	NA	NA	NA	NA	2,125	250	NA	190	NA
GW 1	7/8/1997	6,857.70	6.9	7.68	4,800	634	379	229	4.4	1,040	2,050	173	0.3	116	-0.001
GW 1	10/7/1997	6,857.80	6.3	7.35	4,750	619	364	245	4.7	1,070	1,980	145	0.38	114	-0.001
GW 1	1/15/1998	6,857.50	6.8	7.9	4,650	616	349	251	5.6	1,020	2,100	157	0.71	112	-0.001
GW 1	4/7/1998	6,857.50	6.6	7.48	4,440	597	331	220	4.2	872	2,000	121	0.13	97.9	-0.001
GW 1	7/7/1998	6,857.50	6.8	7.7	4,350	587	317	224	4.8	815	1,800	132	0.37	122	-0.001
GW 1	10/6/1998	6,857.00	6.72	7.88	4,370	632	331	228	5.7	801	2,020	125	0.06	95.9	-0.001
GW 1	1/5/1999	6,856.90	6.7	7.75	4,450	597	304	197	5.4	853	1,830	124	0.29	91.5	-0.001
GW 1	4/6/1999	6,856.80	6.7	7.65	4,300	610	264	209	5.1	738	1,820	115	0.43	91.8	-0.001
GW 1	7/13/1999	6,857.06	6.7	7.8	4,190	611	304	183	9.7	770	1,900	125	0.47	82.4	-0.001
GW 1	10/5/1999	6,857.60	6.75	7.53	4,230	562	270	205	5.1	788	1,670	120	0.1	91	-0.001
GW 1	1/4/2000	6,857.00	6.7	7.72	4,160	589	278	176	6	742	1,790	114	0.28	94.2	-0.001
GW 1	5/9/2000	6,856.30	6.6	7.69	4,410	585	309	226	5.1	919	1,870	122	0.84	87	-0.001
GW 1	7/17/2000	6,856.20	6.63	7.58	4,370	609	312	210	4.88	915	1,720	125	0.77	77.5	-0.001
GW 1	10/9/2000	6,855.85	6.88	7.53	4,260	517	274	200	5.8	905	1,520	95.1	0.88	75.7	-0.001
GW 1	1/8/2001	6,856.00	6.73	7.75	4,290	628	316	196	5.2	944	1,830	112	0.76	79.9	-0.001
GW 1	2/5/2001	6,856.20	6.91	7.44	4,270	721	352	184	6.1	960	2,110	114	0.77	73.7	-0.001
GW 1	3/5/2001	6,856.50	7.15	7.4	4,080	635	323	166	6.1	975	2,070	104	0.79	74.2	-0.001
GW 1	4/4/2001	6,856.70	7	7.5	4,360	713	347	201	4.1	946	2,070	116	0.79	84.7	-0.001
GW 1	5/8/2001	6,856.80	6.72	7.51	4,500	628	314	201	4.7	944	1,830	124	0.79	78.2	-0.001
GW 1	6/4/2001	6,857.05	6.67	6.98	4,420	635	322	187	4.7	944	1,980	119	0.83	76.4	-0.001
GW 1	7/10/2001	6,857.10	7.12	7.47	4,680	694	353	197	4.1	892	2,110	134	0.8	86.7	-0.001
GW 1	8/7/2001	6,857.12	6.61	7.5	4,910	650	340	210	4.5	878	2,100	140	0.69	84	-0.001
GW 1	9/11/2001	6,857.25	6.64	7.4	4,960	690	350	214	4.6	899	2,200	140	0.68	101	-0.001
GW 1	10/1/2001	6,857.40	6.73	7.8	5,190	690	350	206	5.3	913	2,200	170	0.63	91.5	-0.001
GW 1	11/5/2001	6,857.50	6.68	7.2	5,260	775	386	219	5.1	950	2,540	150	0.59	95	-0.001
GW 1	12/4/2001	6,857.65	6.83	7.3	5,300	722	361	197	4.4	984	2,270	145	0.64	96	-0.001
GW 1	1/8/2002	6,857.70	6.89	7.2	5,310	841	408	173	6.9	991	2,650	157	0.59	82	-0.001
GW 1	2/4/2002	6,857.75	6.87	7.4	5,360	808	398	206	6.2	1,010	2,530	167	0.59	80.5	-0.001
GW 1	3/4/2002	6,857.75	6.7	7.3	5,360	764	408	260	4.4	1,080	2,630	151	0.6	92.2	-0.001
GW 1	4/1/2002	6,857.90	6.65	7.38	5,470	791	419	240	6.2	1,100	2,620	162	0.58	83.2	-0.001
GW 1	5/6/2002	6,857.95	6.63	7.56	5,490	763	418	245	5.8	1,110	2,450	160	0.56	91	-0.001
GW 1	6/3/2002	6,857.97	6.58	7.61	5,530	755	423	230	4.3	1,150	2,400	150	0.57	96	-0.001

TAb_ A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
GW 1	7/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.05	-0.1	-0.05	-0.001	-0.1	0.048	- 1.4	-0.2	-1	-1
GW 1	10/7/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.05	-0.1	-0.05	-0.001	-0.1	0.054	- 1.2	-0.2	-1	-1
GW 1	1/15/1998	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.07	-0.1	-0.05	-0.001	-0.1	0.0539	- 2.0	-0.2	-1	-1
GW 1	4/7/1998	-0.1	0.002	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.046	- 1.2	-0.2	-1	-1
GW 1	7/7/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.0464	- 1.2	-0.2	-1	-1
GW 1	10/6/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.05	- 1.2	-0.2	1.2	1.2
GW 1	1/5/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.0509	- 2.2	-0.2	-1	-1
GW 1	4/6/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.0461	- 1.2	-0.2	-1	-1
GW 1	7/13/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.02	-0.1	-0.05	0.001	-0.1	0.046	- 1.2	-0.2	-1	-1
GW 1	10/5/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.0507	- 1.4	-0.2	-1	-1
GW 1	1/4/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	0.001	-0.1	0.051	- 1.2	-0.2	-1	-1
GW 1	5/9/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.04	-0.1	-0.05	-0.001	-0.1	0.061	- 1.2	-0.2	-1	-1
GW 1	7/17/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.04	-0.1	-0.05	-0.001	-0.1	0.0572	- 1.2	-0.2	-1	-1
GW 1	10/9/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.06	- 1.2	-0.2	-1	-1
GW 1	1/8/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.04	-0.1	-0.05	0.001	-0.1	0.063	- 5.3	-0.2	-1	-1
GW 1	2/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.05	-0.1	-0.05	-0.001	-0.1	0.068	- 1.3	-0.2	-1	-1
GW 1	3/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.05	-0.1	-0.05	-0.001	-0.1	0.0671	- 4.1	-0.2	-1	-1
GW 1	4/4/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.05	-0.1	-0.05	-0.001	-0.1	0.068	- 1.2	-0.2	-1	-1
GW 1	5/8/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.05	-0.1	-0.05	-0.001	-0.1	0.075	- 1.2	-0.2	-1	-1
GW 1	6/4/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.05	-0.1	-0.05	0.009	-0.1	0.065	- 1.2	-0.2	-1	-1
GW 1	7/10/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.05	-0.1	-0.05	-0.001	-0.1	0.0731	- 1.2	-0.2	-1	-1
GW 1	8/7/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.05	-0.1	-0.05	-0.001	-0.1	0.081	- 1.2	-0.2	-1	-1
GW 1	9/11/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.04	-0.1	-0.05	-0.001	-0.1	0.0764	- 1.2	-0.2	-1	-1
GW 1	10/1/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.04	-0.1	-0.05	-0.001	-0.1	0.0903	- 1.2	-0.2	-1	-1
GW 1	11/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.04	-0.1	-0.05	-0.001	-0.1	0.0872	- 1.4	-0.2	-1	-1
GW 1	12/4/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.04	-0.1	-0.05	-0.001	-0.1	0.0957	- 1.2	-0.2	-1	-1
GW 1	1/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.04	-0.1	-0.05	-0.001	-0.1	0.0976	- 1.3	-0.2	-1	-1
GW 1	2/4/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.04	-0.1	-0.05	-0.001	-0.1	0.0926	- 2.0	-0.2	-1	-1
GW 1	3/4/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.05	-0.1	-0.05	-0.001	-0.1	0.108	- 1.2	-0.2	-1	-1
GW 1	4/1/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.05	-0.1	-0.05	-0.001	-0.1	0.102	- 1.2	-0.2	-1	-1
GW 1	5/6/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.05	-0.1	0.05	-0.001	-0.1	0.114	- 1.2	-0.2	-1	-1
GW 1	6/3/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.05	-0.1	-0.05	-0.001	-0.1	0.108	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
GW 1	7/8/2002	6,857.75	6.65	7.8	5,630	753	454	190	6.6	1,200	2,500	140	0.54	99.9	-0.001
GW 1	10/8/2002	6,857.52	6.75	7.72	5,850	708	460	241	4	1,300	2,320	170	0.42	113	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
GW 1	7/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.04	-0.1	-0.05	-0.001	-0.1	0.128	- 1.2	-0.2	-1	-1
GW 1	10/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.04	-0.1	-0.05	-0.001	-0.1	0.093	- 1.6	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
GW 1Dup	12/4/2001	6,857.65	6.87	7.4	5,260	716	351	219	3.9	946	2,250	137	0.46	96	-0.001
GW 1Dup	1/8/2002	6,857.65	6.9	7.3	5,260	844	401	176	6.8	978	2,660	159	0.51	81.5	-0.001
GW 1Dup	5/6/2002	6,857.88	6.7	7.67	5,470	770	409	248	5.6	1,100	2,440	158	0.46	93.2	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
GW 1Dup	12/4/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.1	0.095	- 1.2	-0.2	-1	-1
GW 1Dup	1/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.04	-0.1	-0.05	-0.001	-0.1	0.102	- 1.2	-0.2	-1	-1
GW 1Dup	5/6/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.04	-0.1	0.05	-0.001	-0.1	0.102	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
EPA Standard		NA	NA	NA	4,800	NA	NA	NA	NA	NA	2,125	250	NA	190	NA
GW 2	7/19/1989	6,870.30	7	7.23	5,143	910	412	253	8.3	1,293	2,267	173	0.06	123	-0.001
GW 2	10/16/1989	6,870.10	7	7.05	5,564	789	479	266	11.7	1,818	2,314	181	0.1	76	-0.001
GW 2	1/10/1990	6,869.70	6.7	7.02	5,470	752	421	264	8.75	1,451	2,329	184	0.08	84	-0.001
GW 2	4/5/1990	6,869.40	6.5	7.06	5,277	862	391	256	8.1	1,730	2,226	183	0.11	113	-0.001
GW 2	7/3/1990	6,868.90	6.3	6.91	5,179	801	667	286	9.9	2,001	2,161	195	-0.05	52.2	-0.001
GW 2	10/3/1990	6,868.70	6.5	7.25	5,801	888	522	289	9.4	1,602	2,395	193	-0.05	61.9	-0.001
GW 2	1/16/1991	6,868.90	6.6	7.11	5,775	926	458	297	8.3	1,552	2,444	202	0.05	88.2	-0.001
GW 2	4/2/1991	6,868.80	6.5	6.9	5,621	812	432	280	8.1	1,465	2,560	206	-0.05	102	-0.001
GW 2	7/17/1991	6,867.50	6.5	7.3	5,820	790	430	258	8.5	1,769	2,638	199	0.05	131	-0.001
GW 2	10/15/1991	6,866.80	6.2	6.89	6,209	737	579	287	9	2,011	2,868	197	-0.05	28.8	-0.001
GW 2	1/15/1992	6,866.90	6.2	7.11	5,127	765	428	259	7.9	1,278	2,285	187	-0.05	51.6	-0.001
GW 2	4/8/1992	6,867.00	6.2	7.53	5,275	725	531	286	10.3	1,687	2,613	177	-0.05	22.9	-0.001
GW 2	7/8/1992	6,865.20	6.1	7.24	6,313	802	581	402	12.8	1,931	3,194	171	0.07	54	-0.001
GW 2	10/6/1992	6,864.10	6.4	7.26	5,590	901	422	316	8.8	1,563	2,256	166	-0.05	100	-0.001
GW 2	1/7/1993	6,864.20	6.4	7.62	5,795	730	521	296	10.1	1,763	2,584	177	-0.05	64	-0.001
GW 2	4/7/1993	6,864.70	6.5	7.24	5,140	670	430	314	6.9	1,529	2,250	173	-0.05	79.8	-0.001
GW 2	7/14/1993	6,863.00	6.7	7.18	5,500	776	437	308	7.7	1,612	2,501	178	0.05	79.8	-0.001
GW 2	10/7/1993	6,862.60	6.8	7.44	4,812	693	371	268	6.9	1,386	2,107	159	0.05	111	-0.001
GW 2	1/6/1994	6,861.60	6.8	7.14	5,185	673	461	277	7.4	1,556	2,444	170	0.16	68.1	-0.001
GW 2	4/12/1994	6,862.30	6.7	7.03	5,006	748	355	250	7	1,536	2,238	165	0.24	80.5	-0.001
GW 2	7/21/1994	6,861.60	6.7	7.35	5,402	774	470	247	8.6	1,614	2,859	170	0.06	52	-0.001
GW 2	10/5/1994	6,861.20	6.4	7.51	5,969	727	590	288	10	1,707	2,683	177	-0.05	29.9	-0.001
GW 2	1/4/1995	6,861.20	6.4	7.16	6,044	748	561	270	10.9	1,703	2,866	174	0.27	25.3	-0.001
GW 2	4/5/1995	6,861.70	6.5	6.91	6,020	660	635	285	10.4	1,745	2,955	170	0.19	23.1	-0.001
GW 2	7/6/1995	6,862.40	6.5	7.49	5,305	760	475	265	8.6	1,409	2,404	194	0.27	48.1	-0.001
GW 2	10/3/1995	6,862.60	6.3	7.45	5,826	655	600	268	9.5	1,791	2,841	178	0.2	17.7	-0.001
GW 2	1/3/1996	6,859.60	6.4	6.91	5,302	595	575	280	9.7	1,802	2,409	133	-0.05	16.7	-0.001
GW 2	4/2/1996	6,859.40	6.5	7.64	6,059	622	550	282	10	1,732	2,936	167	-0.05	24.1	-0.001
GW 2	7/7/1996	6,859.10	6.3	7.19	6,246	600	595	286	10.4	1,643	2,870	155	0.1	20.5	-0.001
GW 2	10/1/1996	6,859.30	6.4	6.99	6,280	628	673	289	10.3	1,670	2,955	166	-0.05	12.9	-0.001
GW 2	1/22/1997	6,858.90	6.3	7.43	6,100	600	620	275	10.2	1,690	2,945	177	-0.05	10.2	-0.001
GW 2	4/8/1997	6,858.70	6.6	7.77	5,910	667	572	259	9.7	1,630	2,851	193	-0.05	19.8	-0.001

TAB A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
GW 2	7/19/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.22	-0.1	-0.05	0.001	-0.1	0.254	4.3	1.1	-1	6
GW 2	10/16/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.31	-0.1	-0.05	0.001	-0.1	0.196	3.8	11	1.5	15
GW 2	1/10/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.19	-0.1	-0.05	-0.001	-0.1	0.183	- 0.3	1	-1	2.3
GW 2	4/5/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.41	-0.1	-0.05	0.001	-0.1	0.205	- 0.6	-0.2	1.3	0.8
GW 2	7/3/1990	-0.1	-0.001	-0.05	-0.01	0.01	-0.05	0.48	-0.1	-0.05	-0.001	-0.1	0.146	- 0.5	-0.2	-1	-1
GW 2	10/3/1990	-0.1	0.001	-0.05	-0.01	0.02	-0.05	0.55	-0.1	-0.05	-0.001	-0.1	0.2215	- 0.3	-0.2	-1	-1
GW 2	1/16/1991	-0.1	-0.001	-0.01	0.01	-0.01	-0.05	0.39	-0.1	-0.05	0.002	-0.1	0.2404	- 0.3	-0.2	-1	-1
GW 2	4/2/1991	-0.1	-0.001	-0.01	0.02	0.01	-0.05	0.51	-0.1	-0.05	0.001	-0.1	0.137	- 1.9	-0.2	-1	-1
GW 2	7/17/1991	-0.1	-0.001	-0.01	0.03	-0.01	-0.05	0.5	-0.1	-0.05	0.001	-0.1	0.152	- 1.2	-0.2	-1	-1
GW 2	10/15/1991	0.27	-0.001	-0.01	-0.01	-0.01	-0.05	0.55	-0.1	-0.05	-0.001	-0.1	0.197	- 3.3	-0.2	-1	-1
GW 2	1/15/1992	-0.1	-0.001	-0.01	-0.01	0.03	-0.05	0.48	-0.1	-0.05	-0.001	-0.1	0.153	- 1.5	-0.2	2.2	-1
GW 2	4/8/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.46	-0.1	-0.05	0.006	-0.1	0.165	- 1.2	-0.2	2.4	-1
GW 2	7/8/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.4	-0.1	-0.05	0.001	-0.1	0.13	- 1.2	-0.2	-1	-1
GW 2	10/6/1992	-0.1	-0.001	-0.01	-0.01	-0.01	0.06	0.15	-0.1	-0.05	0.002	-0.1	0.242	2.1	-0.2	-1	-1
GW 2	1/7/1993	-0.1	-0.001	-0.01	-0.01	0.02	-0.05	0.25	-0.1	-0.05	0.005	-0.1	0.181	8.7	-0.2	-1	-1
GW 2	4/7/1993	-0.1	0.001	-0.01	-0.01	-0.01	-0.05	0.12	-0.1	-0.05	0.001	-0.1	0.2	4.8	-0.2	-1	-1
GW 2	7/14/1993	-0.1	0.001	-0.01	-0.01	-0.01	-0.05	0.22	-0.1	-0.05	0.001	-0.1	0.084	- 3.3	-0.2	-1	-1
GW 2	10/7/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.06	-0.1	-0.05	0.001	-0.1	0.118	2.8	-0.2	-1	-1
GW 2	1/6/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.11	-0.1	-0.05	-0.001	-0.1	0.116	5.1	-0.2	1.8	8.5
GW 2	4/12/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.29	-0.1	-0.05	-0.001	-0.1	0.201	- 2.2	-0.2	3.2	1.4
GW 2	7/21/1994	-0.1	0.001	-0.01	-0.01	-0.01	-0.05	0.13	-0.1	-0.05	0.002	-0.1	0.117	- 8.3	-0.2	-1	12.5
GW 2	10/5/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.32	-0.1	-0.05	-0.001	-0.1	0.094	- 1.4	-0.2	1.4	-1
GW 2	1/4/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.35	-0.1	-0.05	-0.001	-0.1	0.087	4.3	-0.2	-1	5.7
GW 2	4/5/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.42	-0.1	-0.05	-0.001	-0.1	0.071	1.5	-0.2	4.4	2.2
GW 2	7/6/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.14	-0.1	-0.05	0.002	-0.1	0.1959	- 2.7	-0.2	-1	2.8
GW 2	10/3/1995	-0.1	0.002	-0.01	-0.01	-0.01	-0.05	0.39	-0.1	-0.05	-0.001	-0.1	0.0751	- 1.2	-0.2	1.8	-1
GW 2	1/3/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.39	-0.1	-0.05	-0.001	-0.1	0.071	- 1.2	-0.2	2.4	-1
GW 2	4/2/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.44	-0.1	-0.05	-0.001	-0.1	0.118	- 1.2	-0.2	-1	-1
GW 2	7/7/1996	-0.1	0.003	-0.01	-0.01	-0.01	-0.05	0.49	-0.1	-0.05	0.001	-0.1	0.099	- 1.2	-0.2	-1	-1
GW 2	10/1/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.43	-0.1	-0.05	0.002	-0.1	0.07	- 1.2	1	-1	-1
GW 2	1/22/1997	-0.1	0.001	-0.01	-0.01	-0.01	-0.05	0.35	-0.1	-0.05	-0.001	-0.1	0.054	- 1.2	-0.2	-1	-1
GW 2	4/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.41	-0.1	-0.05	-0.001	-0.1	0.131	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
EPA Standard		NA	NA	NA	4,800	NA	NA	NA	NA	NA	2,125	250	NA	190	NA
GW 2	7/8/1997	6,858.60	6.8	7.33	6,090	666	631	255	9.9	1,640	2,720	182	-0.05	10.7	-0.001
GW 2	10/7/1997	6,858.90	6.2	7.21	6,090	618	610	266	9.7	1,630	3,050	170	-0.05	10.7	-0.001
GW 2	1/16/1998	6,858.50	6.5	7.52	5,990	653	582	271	9.9	1,640	3,000	188	0.13	16	-0.001
GW 2	4/7/1998	6,858.40	6.4	7.8	5,880	638	596	248	9.9	1,500	2,700	174	-0.05	8.96	-0.001
GW 2	7/7/1998	6,858.60	6.1	7.8	5,880	638	596	248	9.9	1,500	2,700	174	-0.05	8.96	-0.001
GW 2	10/6/1998	6,860.30	6.48	7.59	5,800	651	602	253	10.7	1,500	2,770	165	0.16	8.73	-0.001
GW 2	1/5/1999	6,858.20	6.7	7.88	5,780	588	552	217	9.8	1,460	2,900	168	0.07	7.04	-0.001
GW 2	4/6/1999	6,858.20	6.4	7.57	5,710	580	582	221	9.6	1,410	2,500	162	0.07	6.12	-0.001
GW 2	7/13/1999	6,857.98	6.6	7.9	5,530	594	562	223	14.5	1,350	2,660	166	0.06	5.95	-0.001
GW 2	10/5/1999	6,859.30	6.52	7.39	5,510	537	512	229	10.1	1,420	2,380	164	0.24	5.5	-0.001
GW 2	1/4/2000	6,858.70	6.6	7.76	5,440	587	549	185	11	1,430	2,610	143	-0.05	4.05	-0.001
GW 2	5/8/2000	6,858.40	6.4	7.64	5,410	540	528	234	9.5	1,410	2,590	155	-0.05	2.74	-0.001
GW 2	7/17/2000	6,858.10	6.37	7.65	5,440	571	536	213	9.61	1,400	2,400	158	-0.05	2.95	-0.001
GW 2	10/9/2000	6,857.65	6.35	7.54	5,310	476	449	194	10.5	1,370	1,930	130	0.05	4.09	-0.001
GW 2	1/8/2001	6,858.10	6.51	7.23	5,270	599	537	211	9.7	1,420	2,620	159	0.09	4.04	-0.001
GW 2	2/6/2001	6,858.65	6.79	7.37	5,290	679	578	230	10.4	1,410	2,800	153	0.05	3.84	-0.001
GW 2	3/6/2001	6,858.80	6.86	7.54	5,150	586	528	275	10.6	1,400	2,680	140	-0.05	3.36	-0.001
GW 2	4/9/2001	6,859.30	6.92	7.26	5,200	668	568	220	10.1	1,420	2,730	152	-0.05	3.68	-0.001
GW 2	5/7/2001	6,859.20	6.46	7.57	5,330	590	514	217	9.7	1,420	2,390	168	0.11	3.49	-0.001
GW 2	6/4/2001	6,859.55	6.47	7.33	4,490	583	520	184	9.5	1,390	2,460	164	0.09	3.8	-0.001
GW 2	7/9/2001	6,859.61	7.09	7.12	5,340	624	561	210	9.3	1,450	2,450	166	-0.05	4.4	-0.001
GW 2	8/7/2001	6,859.45	6.43	7.2	5,320	570	520	220	9.8	1,460	2,300	170	-0.05	4.4	-0.001
GW 2	9/10/2001	6,859.70	6.38	7.1	5,270	600	530	209	10.1	1,500	2,400	177	-0.05	6.3	-0.001
GW 2	10/1/2001	6,859.80	6.48	7.6	5,330	570	510	222	10.7	1,480	2,200	202	0.07	6	-0.001
GW 2	11/5/2001	6,860.10	6.5	7.1	5,340	619	532	212	10.8	1,460	2,550	200	0.05	7.6	-0.001
GW 2	12/3/2001	6,860.20	6.47	7.1	5,320	582	494	195	9.5	1,480	2,270	182	0.06	8.6	-0.001
GW 2	1/8/2002	6,860.10	6.54	7	5,300	683	543	186	11	1,460	2,640	199	-0.05	9	-0.001
GW 2	2/4/2002	6,860.35	6.57	7.2	5,310	662	519	201	10.9	1,470	2,490	205	0.09	11.4	-0.001
GW 2	3/4/2002	6,860.10	6.49	7.3	5,290	622	512	230	10.7	1,470	2,540	203	0.06	15.9	-0.001
GW 2	4/1/2002	6,860.28	6.38	7.15	5,350	656	520	229	11.6	1,520	2,590	196	0.05	17	-0.001
GW 2	5/6/2002	6,860.32	6.38	7.36	5,340	643	509	239	11.6	1,530	2,410	199	0.06	20.4	-0.001
GW 2	6/3/2002	6,860.33	6.36	7.38	5,390	645	508	216	9.8	1,560	2,360	178	-0.05	22	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
GW 2	7/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.29	-0.1	-0.05	-0.001	-0.1	0.061	- 1.6	-0.2	-1	-1
GW 2	10/7/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.38	-0.1	-0.05	-0.001	-0.1	0.062	- 1.2	-0.2	-1	-1
GW 2	1/16/1998	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.38	-0.1	-0.05	-0.001	-0.1	0.0953	- 1.2	-0.2	-1	-1
GW 2	4/7/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.3	-0.1	-0.05	-0.001	-0.1	0.0656	- 1.7	-0.2	-1	-1
GW 2	7/7/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.3	-0.1	-0.05	-0.001	-0.1	0.0656	- 1.7	-0.2	-1	-1
GW 2	10/6/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.33	-0.1	-0.05	-0.001	-0.1	0.0732	- 1.6	-0.2	-1	-1
GW 2	1/5/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.35	-0.1	-0.05	-0.001	-0.1	0.0662	- 3.3	-0.2	-1	-1
GW 2	4/6/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.34	-0.1	-0.05	-0.001	-0.1	0.0594	- 1.2	-0.2	-1	-1
GW 2	7/13/1999	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	0.4	-0.1	-0.05	-0.001	-0.1	0.0057	- 1.2	-0.2	-1	2.3
GW 2	10/5/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.49	-0.1	-0.05	-0.001	-0.1	0.0705	- 1.3	-0.2	-1	-1
GW 2	1/4/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.44	-0.1	-0.05	0.001	-0.1	0.0681	- 1.2	-0.2	-1	-1
GW 2	5/8/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.46	-0.1	-0.05	-0.001	-0.1	0.0685	- 1.2	-0.2	5.9	-1
GW 2	7/17/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.44	-0.1	-0.05	-0.001	-0.1	0.0602	- 1.2	-0.2	-1	-1
GW 2	10/9/2000	-0.1	0.001	-0.01	-0.005	-0.01	-0.05	0.34	-0.1	-0.05	0.001	-0.1	0.064	- 1.2	-0.2	-1	-1
GW 2	1/8/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.49	-0.1	-0.05	-0.001	-0.1	0.063	- 1.2	-0.2	-1	-1
GW 2	2/6/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.5	-0.1	-0.05	-0.001	-0.1	0.065	- 1.2	-0.2	-1	-1
GW 2	3/6/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.5	-0.1	-0.05	-0.001	-0.1	0.0626	- 1.2	-0.2	-1	-1
GW 2	4/9/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.54	-0.1	-0.05	-0.001	-0.1	0.074	- 1.2	-0.2	-1	-1
GW 2	5/7/2001	0.15	-0.001	-0.01	-0.005	-0.01	-0.05	0.59	-0.1	-0.05	-0.001	-0.1	0.067	- 1.2	-0.2	-1	-1
GW 2	6/4/2001	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	0.51	-0.1	-0.05	0.004	-0.1	0.061	- 1.2	-0.2	-1	-1
GW 2	7/9/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.53	-0.1	-0.05	-0.001	-0.1	0.0683	- 1.2	-0.2	-1	-1
GW 2	8/7/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.5	-0.1	-0.05	-0.001	-0.1	0.075	- 2.4	-0.2	-1	-1
GW 2	9/10/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.48	-0.1	-0.05	-0.001	-0.1	0.0627	- 1.2	-0.2	-1	-1
GW 2	10/1/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.45	-0.1	-0.05	-0.001	-0.1	0.0659	- 1.3	-0.2	-1	-1
GW 2	11/5/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.5	-0.1	-0.05	-0.001	-0.1	0.0584	- 1.4	-0.2	-1	-1
GW 2	12/3/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.45	-0.1	-0.05	-0.001	-0.1	0.0622	- 1.2	-0.2	-1	-1
GW 2	1/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.47	-0.1	-0.05	-0.001	-0.1	0.0609	1.6	-0.2	-1	-1
GW 2	2/4/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.48	-0.1	-0.05	-0.001	-0.1	0.0551	- 1.2	-0.2	-1	-1
GW 2	3/4/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.58	-0.1	-0.05	-0.001	-0.1	0.0833	- 1.4	-0.2	-1	-1
GW 2	4/1/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.52	-0.1	-0.05	-0.001	-0.1	0.0664	- 1.4	-0.2	-1	-1
GW 2	5/6/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.52	-0.1	-0.05	-0.001	-0.1	0.0738	- 1.2	-0.2	-1	-1
GW 2	6/3/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.52	-0.1	-0.05	-0.001	-0.1	0.0646	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
GW 2	7/8/2002	6,859.98	6.25	7.67	5,470	648	530	178	11.3	1,600	2,430	208	0.16	22.5	-0.001
GW 2	10/8/2002	6,859.90	6.4	7.52	5,550	619	494	228	9.7	1,690	2,260	185	0.1	30.1	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
GW 2	7/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.48	-0.1	-0.05	-0.001	-0.1	0.0821	- 1.2	-0.2	-1	-1
GW 2	10/8/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.51	-0.1	-0.05	-0.001	-0.1	0.064	- 3.0	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
EPA Standard		NA	NA	NA	4,800	NA	NA	NA	NA	NA	2,125	250	NA	190	NA
GW 3	7/20/1989	6,870.50	6.8	6.59	4,898	891	273	219	5.3	1,354	1,798	154	0.11	137	-0.001
GW 3	10/16/1989	6,870.40	6.8	7.51	4,658	802	256	210	7	1,214	1,704	150	0.11	141	-0.001
GW 3	1/4/1990	6,870.20	6.4	6.74	4,784	890	259	217	5.1	1,452	1,847	177	0.13	146	-0.001
GW 3	4/3/1990	6,869.60	6.8	7.18	4,859	888	280	218	5.1	1,362	1,775	170	0.11	111	-0.001
GW 3	7/2/1990	6,869.20	6.4	7	4,794	954	276	195	6.9	1,418	1,841	164	-0.05	147	-0.001
GW 3	10/2/1990	6,869.10	6.6	7.18	4,699	770	245	211	5.1	1,222	1,911	169	-0.05	102	-0.001
GW 3	1/16/1991	6,869.10	6.5	7.12	4,805	928	290	229	8.8	1,057	2,004	189	-0.05	148	-0.001
GW 3	4/2/1991	6,869.00	6.5	7.15	4,935	897	272	221	4.7	1,043	1,990	185	-0.05	162	-0.001
GW 3	7/16/1991	6,867.80	6.6	7.09	4,829	828	255	212	5.4	1,526	2,011	103	0.17	37.5	-0.001
GW 3	10/14/1991	6,866.90	6.4	6.84	5,094	739	226	227	4.7	1,330	1,856	197	-0.05	87.2	-0.001
GW 3	1/14/1992	6,867.20	6.4	7.01	4,589	794	262	212	5.8	1,345	1,762	172	-0.05	90.1	-0.001
GW 3	4/9/1992	6,867.20	6.5	7.32	4,757	836	267	261	7.4	1,114	1,874	179	0.14	86.8	-0.001
GW 3	7/7/1992	6,865.40	6.3	7.42	4,877	785	295	274	7.6	964	1,907	111	0.08	112	-0.001
GW 3	10/7/1992	6,864.20	6.5	7.32	4,766	849	273	288	9.3	1,537	1,932	182	-0.05	120	-0.001
GW 3	1/7/1993	6,864.30	6.4	7.48	5,105	903	260	244	6	1,610	1,968	188	-0.05	134	-0.001
GW 3	4/7/1993	6,864.90	6.4	7.07	4,791	851	248	277	4.7	1,419	1,879	183	-0.05	112	-0.001
GW 3	7/14/1993	6,863.40	6.4	7.09	4,780	989	270	293	5.7	1,745	1,913	201	-0.05	94.7	-0.001
GW 3	10/7/1993	6,862.70	6.6	7.22	4,614	889	252	238	6.1	1,540	1,813	71.8	0.05	119	-0.001
GW 3	1/6/1994	6,862.70	6.5	7.04	4,960	889	251	261	5.6	1,573	1,836	177	0.11	107	-0.001
GW 3	4/13/1994	6,863.00	6.6	6.86	4,709	866	244	234	5.7	1,525	1,825	167	0.39	113	-0.001
GW 3	7/21/1994	6,861.80	6.5	7.16	4,790	953	256	250	6.2	1,512	1,943	160	0.13	105	-0.001
GW 3	10/5/1994	6,861.50	6.3	7.59	4,949	942	250	271	6.7	1,481	1,938	165	0.25	117	-0.001
GW 3	1/5/1995	6,861.50	6.4	7.34	5,101	990	263	256	7.4	1,532	1,938	152	0.32	95.4	-0.001
GW 3	4/5/1995	6,862.30	6.5	7.07	4,978	920	240	224	5.2	1,519	2,090	210	0.41	104	-0.001
GW 3	7/6/1995	6,860.80	6.4	7.5	4,792	914	281	252	6.3	1,519	1,858	171	0.27	96.4	-0.001
GW 3	10/3/1995	6,860.20	6.5	7.41	5,055	905	267	232	5.8	1,512	1,905	174	0.41	99.1	-0.001
GW 3	1/3/1996	6,859.80	6.5	6.96	4,495	805	240	235	6.1	1,521	1,650	138	-0.05	106	-0.001
GW 3	4/2/1996	6,859.80	6.4	7.64	5,010	875	275	260	7	1,510	1,915	155	-0.05	111	-0.001
GW 3	7/7/1996	6,859.70	6.3	7.13	4,844	865	260	245	7.4	1,434	1,860	150	0.14	102	-0.001
GW 3	10/1/1996	6,859.70	6.4	6.99	4,970	909	277	239	6.7	1,480	1,884	141	0.05	115	-0.001
GW 3	1/22/1997	6,859.40	6.4	7.51	4,770	885	275	228	7.3	1,480	1,937	166	0.11	114	-0.001
GW 3	4/8/1997	6,859.30	6.5	7.59	4,990	892	277	227	6.6	1,430	1,994	171	0.06	117	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
GW 3	7/20/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	1.6	-0.1	-0.05	0.002	-0.1	0.127	- 1.8	3.3	2.7	4.1
GW 3	10/16/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	1.5	-0.1	-0.05	0.005	-0.1	0.132	- 1.5	3.3	-1	4.1
GW 3	1/4/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	1.5	-0.1	-0.05	0.002	-0.1	0.132	- 1.9	-0.2	-1	1.2
GW 3	4/3/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	1.2	-0.1	-0.05	0.001	-0.1	0.103	- 2.0	-0.2	-1	1.5
GW 3	7/2/1990	-0.1	-0.001	-0.05	-0.01	0.01	-0.05	1.29	-0.1	-0.05	-0.001	-0.1	0.136	1.4	-0.2	-1	-1
GW 3	10/2/1990	-0.1	-0.001	-0.05	0.01	0.01	-0.05	1.5	-0.1	-0.05	-0.001	-0.1	0.094	- 1.2	-0.2	-1	-1
GW 3	1/16/1991	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.45	-0.1	-0.05	-0.001	-0.1	0.1387	- 1.2	-0.2	-1	-1
GW 3	4/2/1991	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.43	-0.1	-0.05	0.002	-0.1	0.07	- 1.3	-0.2	5.6	-1
GW 3	7/16/1991	-0.1	-0.001	-0.01	-0.01	0.01	-0.05	1.4	-0.1	-0.05	-0.001	-0.1	0.128	- 1.3	-0.2	12.8	-1
GW 3	10/14/1991	-0.1	-0.001	-0.01	-0.01	0.02	-0.05	1.11	-0.1	-0.05	0.001	-0.1	0.14	- 1.2	-0.2	-1	-1
GW 3	1/14/1992	0.16	-0.001	-0.01	-0.01	0.02	-0.05	1.61	-0.1	0.11	0.001	-0.1	0.08	- 1.2	-0.2	13.6	-1
GW 3	4/9/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.21	-0.1	-0.05	0.024	-0.1	0.155	4.2	-0.2	-1	-1
GW 3	7/7/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.25	-0.1	-0.05	0.002	-0.1	0.12	- 2.9	-0.2	-1	-1
GW 3	10/7/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.92	-0.1	-0.05	0.002	-0.1	0.331	- 1.8	-0.2	-1	3.3
GW 3	1/7/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.71	-0.1	-0.05	0.005	-0.1	0.602	3.7	-0.2	-1	-1
GW 3	4/7/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.64	-0.1	-0.05	0.001	-0.1	0.219	- 1.6	-0.2	2.2	-1
GW 3	7/14/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.81	-0.1	-0.05	0.001	-0.1	0.135	4.6	-0.2	-1	1.8
GW 3	10/7/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.79	-0.1	-0.05	0.002	-0.1	0.08	- 1.6	-0.2	-1	-1
GW 3	1/6/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.92	-0.1	-0.05	-0.001	-0.1	0.099	- 1.8	-0.2	-1	-1
GW 3	4/13/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.89	-0.1	-0.05	-0.001	-0.1	0.096	- 2.7	-0.2	5.9	1.9
GW 3	7/21/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	2.26	-0.1	-0.05	-0.001	-0.1	0.082	- 1.4	-0.2	-1	-1
GW 3	10/5/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.87	-0.1	-0.05	-0.001	-0.1	0.083	- 1.3	-0.2	1.7	1.5
GW 3	1/5/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.97	-0.1	-0.05	-0.001	-0.1	0.078	3.4	-0.2	-1	4.8
GW 3	4/5/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.91	-0.1	-0.05	-0.001	-0.1	0.08	- 1.5	-0.2	-1	-1
GW 3	7/6/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.92	-0.1	-0.05	0.002	-0.1	0.0882	- 1.2	-0.2	-1	-1
GW 3	10/3/1995	-0.1	0.003	-0.01	-0.01	-0.01	-0.05	1.93	-0.1	-0.05	0.012	-0.1	0.0868	- 1.3	-0.2	-1	-1
GW 3	1/3/1996	-0.1	0.002	-0.01	-0.01	-0.01	-0.05	1.74	-0.1	-0.05	0.014	-0.1	0.081	- 1.4	0.4	-1	-1
GW 3	4/2/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.82	-0.1	-0.05	-0.001	-0.1	0.087	- 1.2	-0.2	-1	-1
GW 3	7/7/1996	-0.1	0.01	-0.01	-0.01	-0.01	-0.05	1.99	-0.1	-0.05	-0.001	-0.1	0.1	- 1.3	1.2	-1	-1
GW 3	10/1/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.92	-0.1	-0.05	0.001	-0.1	0.072	- 1.2	0.4	-1	-1
GW 3	1/22/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.92	-0.1	-0.05	-0.001	-0.1	0.072	- 1.6	-0.2	-1	-1
GW 3	4/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.93	-0.1	-0.05	0.02	-0.1	0.086	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
EPA Standard		NA	NA	NA	4,800	NA	NA	NA	NA	NA	2,125	250	NA	190	NA
GW 3	7/8/1997	6,859.20	6.8	7.53	5,060	933	282	223	7.4	1,390	1,810	158	0.11	121	-0.001
GW 3	10/7/1997	6,859.40	6.2	7.44	5,010	879	267	231	6.9	1,370	1,870	155	-0.05	114	-0.001
GW 3	1/16/1998	6,859.20	6.7	7.72	4,980	858	265	246	8.1	1,330	2,000	154	0.28	128	-0.001
GW 3	4/7/1998	6,859.10	6.6	7.51	4,980	895	273	234	6.7	1,300	1,800	128	0.06	130	-0.001
GW 3	7/7/1998	6,859.00	6.8	7.74	4,930	883	276	244	7.8	1,200	2,100	139	0.1	117	-0.001
GW 3	10/6/1998	6,858.60	6.66	7.75	4,850	871	268	236	7	1,220	1,980	134	0.11	220	-0.001
GW 3	1/5/1999	6,858.50	6.8	7.85	3,810	671	193	163	8.9	987	1,400	95.2	0.21	85.9	-0.001
GW 3	4/6/1999	6,858.50	6.7	7.64	4,600	811	218	202	8.4	1,170	1,710	131	0.11	103	-0.001
GW 3	7/13/1999	6,858.34	6.7	7.9	4,610	824	259	205	12.3	1,170	1,830	126	0.09	119	-0.001
GW 3	10/5/1999	6,859.30	6.68	7.34	4,660	702	219	217	7.5	1,170	1,680	123	14.8	99	-0.001
GW 3	1/4/2000	6,858.60	6.6	7.83	4,680	760	239	169	9.2	1,170	1,760	106	-0.05	113	0.002
GW 3	5/15/2000	6,858.00	6.6	7.71	4,780	755	241	211	8	1,174	1,830	127	0.15	119	-0.001
GW 3	7/17/2000	6,857.80	6.48	7.51	4,800	809	258	207	9.14	1,190	1,710	125	-0.05	117	-0.001
GW 3	10/10/2000	6,857.60	6.56	7.6	4,680	644	210	179	9	1,170	1,320	96.4	0.1	118	-0.001
GW 3	1/9/2001	6,858.00	6.82	7.62	4,660	830	265	207	8.5	1,210	1,850	125	-0.05	115	-0.001
GW 3	2/6/2001	6,858.30	6.99	7.12	4,720	943	290	183	9.7	1,220	2,120	123	-0.05	110	-0.001
GW 3	3/6/2001	6,858.70	7	7.63	4,380	817	263	164	9.3	1,180	2,040	120	0.16	112	-0.001
GW 3	4/10/2001	6,859.05	7.26	7.2	4,680	945	287	207	9.1	1,250	2,070	128	0.14	108	-0.001
GW 3	5/8/2001	6,859.10	6.72	7.49	4,850	808	256	195	8.9	1,250	1,730	146	0.15	107	-0.001
GW 3	6/5/2001	6,859.30	6.76	7.25	4,230	847	274	194	8.6	1,280	1,940	136	0.2	97.5	-0.001
GW 3	7/10/2001	6,859.30	6.87	7.1	4,980	888	288	244	9	1,350	1,880	125	0.11	98	-0.001
GW 3	8/7/2001	6,859.32	6.59	7.2	5,010	820	270	210	9.4	1,390	1,800	160	0.11	90.5	-0.001
GW 3	9/11/2001	6,859.50	6.65	7.5	4,980	840	270	233	8.9	1,400	1,810	154	0.1	104	-0.001
GW 3	10/1/2001	6,859.55	6.83	7.4	5,010	810	260	224	8.5	1,450	1,950	169	0.15	92	-0.001
GW 3	11/6/2001	6,859.65	6.79	7.6	5,020	886	280	229	9.6	1,420	2,050	173	0.08	88	-0.001
GW 3	12/4/2001	6,859.80	6.95	7.4	5,020	833	260	201	8.2	1,440	1,720	148	0.11	91	-0.001
GW 3	1/8/2002	6,859.80	6.9	7.2	5,050	983	293	192	10.2	1,440	2,200	171	0.09	86.5	-0.001
GW 3	2/5/2002	6,859.80	6.91	7.2	5,110	960	281	219	9.5	1,440	2,080	165	0.11	82.3	-0.001
GW 3	3/5/2002	6,859.85	6.77	7.4	5,090	914	283	246	8.9	1,490	2,160	160	0.09	84.3	-0.001
GW 3	4/2/2002	6,859.90	6.76	7.59	5,240	968	291	236	10.5	1,480	2,110	168	0.1	83.6	-0.001
GW 3	5/7/2002	6,859.92	6.51	7.44	5,320	953	288	250	10.2	1,510	2,120	159	0.08	82.4	-0.001
GW 3	6/4/2002	6,859.95	6.68	7.67	5,330	958	293	236	8	1,520	2,110	148	0.1	83.4	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
GW 3	7/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	1.7	-0.1	-0.05	-0.001	-0.1	0.061	- 1.4	-0.2	-1	-1
GW 3	10/7/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	2.19	-0.1	-0.05	-0.001	-0.1	0.065	- 1.2	-0.2	-1	-1
GW 3	1/16/1998	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	2	-0.1	-0.05	-0.001	-0.1	0.0721	- 2.3	-0.2	-1	3.8
GW 3	4/7/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.79	-0.1	-0.05	-0.001	-0.1	0.0632	- 1.2	-0.2	-1	-1
GW 3	7/7/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.69	-0.1	-0.05	-0.001	-0.1	-0.0003	- 1.5	-0.2	-1	-1
GW 3	10/6/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.76	-0.1	-0.05	-0.001	-0.1	0.0607	- 1.7	-0.2	-1	-1
GW 3	1/5/1999	-0.1	-0.001	-0.01	0.007	-0.01	-0.05	1.41	-0.1	-0.05	-0.001	-0.1	0.0475	- 1.2	-0.2	-1	-1
GW 3	4/6/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.82	-0.1	-0.05	-0.001	-0.1	0.0518	- 1.2	-0.2	-1	-1
GW 3	7/13/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.69	-0.1	-0.05	-0.001	-0.1	0.0047	- 1.2	-0.2	-1	-1
GW 3	10/5/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.03	-0.1	-0.05	-0.001	-0.1	0.0569	- 1.6	-0.2	-1	-1
GW 3	1/4/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.78	-0.1	-0.05	0.001	-0.1	0.0513	- 1.5	-0.2	-1	-1
GW 3	5/15/2000	-0.1	0.001	-0.01	-0.005	-0.01	-0.05	1.87	-0.1	-0.05	0.001	-0.1	0.0568	- 1.2	-0.2	-1	-1
GW 3	7/17/2000	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	1.78	-0.1	-0.05	-0.001	-0.1	0.056	- 1.2	-0.2	-1	-1
GW 3	10/10/2000	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.57	-0.1	-0.05	-0.001	-0.1	0.058	- 1.3	-0.2	-1	-1
GW 3	1/9/2001	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	1.9	-0.1	-0.05	0.001	-0.1	0.056	- 3.8	-0.2	-1	-1
GW 3	2/6/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.91	-0.1	-0.05	0.002	-0.1	0.059	- 1.2	-0.2	-1	-1
GW 3	3/6/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.87	-0.1	-0.05	0.001	-0.1	0.0569	- 1.2	-0.2	-1	-1
GW 3	4/10/2001	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	1.91	-0.1	-0.05	0.001	-0.1	0.057	- 2.6	-0.2	-1	1.3
GW 3	5/8/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.96	-0.1	-0.05	0.001	-0.1	0.06	- 1.2	-0.2	-1	-1
GW 3	6/5/2001	0.1	-0.001	-0.01	-0.005	0.01	-0.05	2.06	-0.1	-0.05	0.005	-0.1	0.058	- 1.2	-0.2	-1	-1
GW 3	7/10/2001	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	2.22	-0.1	-0.05	0.001	-0.1	0.0676	- 1.2	-0.2	-1	-1
GW 3	8/7/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2	-0.1	-0.05	-0.001	-0.1	0.071	- 1.4	-0.2	-1	-1
GW 3	9/11/2001	0.13	-0.001	-0.01	-0.005	0.01	-0.05	1.99	-0.1	-0.05	0.001	-0.1	0.0655	- 1.2	-0.2	-1	-1
GW 3	10/1/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.78	-0.1	-0.05	0.001	-0.1	0.0646	- 1.3	-0.2	-1	-1
GW 3	11/6/2001	0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.91	-0.1	-0.05	-0.001	-0.1	0.0632	- 1.4	-0.2	-1	-1
GW 3	12/4/2001	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.93	-0.1	-0.05	-0.001	-0.1	0.0726	- 1.2	-0.2	-1	-1
GW 3	1/8/2002	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	1.79	-0.1	-0.05	-0.001	-0.1	0.0635	1.8	-0.2	-1	-1
GW 3	2/5/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.89	-0.1	-0.05	-0.001	-0.1	0.0586	- 1.2	-0.2	-1	-1
GW 3	3/5/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.34	-0.1	-0.05	-0.001	-0.1	0.0805	- 1.5	-0.2	-1	-1
GW 3	4/2/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	2.08	-0.1	-0.05	-0.001	0.1	0.0704	- 1.2	-0.2	-1	-1
GW 3	5/7/2002	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	2.18	-0.1	-0.05	-0.001	-0.1	0.08	- 1.2	-0.2	-1	-1
GW 3	6/4/2002	-0.1	-0.001	-0.01	-0.005	0.01	-0.05	1.97	-0.1	-0.05	-0.001	-0.1	0.0789	- 1.4	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
GW 3	7/9/2002	6,859.65	6.71	7.38	5,430	953	302	157	8.8	1,560	2,170	127	0.24	93.2	-0.001
GW 3	10/7/2002	6,859.50	6.64	7.35	4,510	884	276	223	8	1,620	2,030	150	0.22	83.8	-0.001

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
GW 3	7/9/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.79	-0.1	-0.05	-0.001	-0.1	0.0934	- 1.2	-0.2	-1	-1
GW 3	10/7/2002	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	1.95	-0.1	-0.05	-0.001	-0.1	0.0713	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
EPA Standard		NA	NA	NA	4,800	NA	NA	NA	NA	NA	2,125	250	NA	190	NA
GW 4	7/18/1989	6,915.60	6.9	7.19	4,068	714	216	212	14.4	756	1,842	47	0.27	148	-0.001
GW 4	10/12/1989	6,915.00	7.2	7.48	4,078	680	202	202	18	793	1,822	50.2	0.21	134	-0.001
GW 4	1/4/1990	6,914.60	7.2	7.28	4,036	728	222	198	14.1	775	1,780	51.7	0.11	134	-0.001
GW 4	4/3/1990	6,913.60	7.1	7.4	4,193	740	212	194	14	789	1,707	52.4	0.09	120	-0.001
GW 4	7/2/1990	6,912.70	6.8	7.3	4,326	830	214	167	13.8	866	1,651	54.7	-0.05	176	-0.001
GW 4	10/3/1990	6,912.40	6.9	7.31	4,135	699	198	198	14.4	732	1,610	56.2	-0.05	116	-0.001
GW 4	1/15/1991	6,912.40	7	7.29	4,064	759	213	189	13.3	731	1,678	54.6	-0.05	176	-0.001
GW 4	4/2/1991	6,912.70	7.1	7.59	3,990	641	183	180	12.4	550	1,660	46.3	-0.05	162	-0.001
GW 4	7/17/1991	6,914.40	7.1	7.55	3,981	578	190	164	12.9	527	1,703	41.2	0.08	132	-0.001
GW 4	10/15/1991	6,913.80	7	7.26	3,880	698	214	165	13.4	732	1,826	43.8	-0.05	67.6	-0.001
GW 4	1/15/1992	6,913.10	7	7.03	3,779	619	189	163	11.8	623	1,803	38.7	-0.05	77.4	-0.001
GW 4	4/7/1992	6,912.20	7	7.19	3,334	579	177	185	14.1	602	1,621	38.7	0.06	78.2	-0.001
GW 4	7/8/1992	6,911.50	7	7.59	3,505	661	190	233	14.7	636	1,663	40.7	0.2	108	-0.001
GW 4	10/6/1992	6,910.90	7.1	7.35	3,857	762	204	187	13.2	585	1,727	42	-0.05	162	-0.001
GW 4	1/6/1993	6,910.40	7.1	7.72	3,595	667	175	180	12.6	714	1,454	49.1	0.13	138	-0.001
GW 4	4/6/1993	6,910.30	7.2	7.63	3,898	665	177	192	10.6	736	1,694	51.2	-0.05	137	-0.001
GW 4	7/13/1993	6,910.50	7.1	7.13	4,181	727	195	168	12.6	755	1,820	47	0.1	125	-0.001
GW 4	10/6/1993	6,910.60	7.3	7.45	4,081	694	177	170	11.3	780	1,700	42.1	-0.05	124	-0.001
GW 4	1/6/1994	6,911.60	7.2	7.71	3,798	656	169	171	10.7	798	1,689	40.2	0.17	82.4	-0.001
GW 4	4/13/1994	6,911.70	7.1	7.2	3,682	658	170	157	11.1	752	1,688	39.1	0.3	109	-0.001
GW 4	7/20/1994	6,910.80	7.1	7.09	3,676	727	195	157	12	733	1,729	40.1	0.18	110	-0.001
GW 4	10/4/1994	6,910.70	7.1	7.78	3,849	721	198	181	12	712	1,796	45.6	0.13	119	-0.001
GW 4	1/5/1995	6,910.30	7.1	7.42	3,937	746	192	168	13	738	1,697	45.6	0.22	122	-0.001
GW 4	4/4/1995	6,910.40	7.2	7.47	3,989	790	216	182	12.8	805	1,844	49	0.44	141	-0.001
GW 4	7/6/1995	6,909.40	7.2	7.63	3,957	740	207	183	15.2	610	1,740	58	0.85	141	-0.001
GW 4	10/3/1995	6,909.20	7.1	7.82	4,277	715	213	172	12.6	630	1,692	51	3.01	165	-0.001
GW 4	1/2/1996	6,909.20													0
GW 4	4/2/1996	6,909.20	7.1	7.83	4,092	718	193	166	12.4	706	1,688	46.6	0.37	146	-0.001
GW 4	7/9/1996	6,908.60													0
GW 4	10/1/1996	6,908.50	6.9	7.66	3,900	743	194	165	12.1	806	1,671	44	0.28	126	-0.001
GW 4	1/22/1997	6,908.60	6.6	7.7	3,490	740	195	146	11.1	773	1,739	48	0.1	116	-0.001
GW 4	4/8/1997	6,908.50	7.2	7.75	3,840	744	196	149	11.3	680	1,734	46	0.07	119	-0.001

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SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
GW 4	7/18/1989	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.14	-0.1	-0.05	0.006	-0.1	0.0901	- 2.6	8.3	-1	5.5
GW 4	10/12/1989	0.12	-0.001	-0.05	-0.01	-0.01	-0.05	0.04	-0.1	-0.05	0.008	-0.1	0.077	- 2.2	-0.2	1.1	2
GW 4	1/4/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.05	-0.1	-0.05	0.005	-0.1	0.077	- 3.9	-0.2	-1	3.1
GW 4	4/3/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.03	-0.1	-0.05	0.006	-0.1	0.077	- 2.0	0.4	-1	1.7
GW 4	7/2/1990	-0.1	-0.001	-0.05	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	0.004	-0.1	0.0756	- 1.2	-0.2	-1	-1
GW 4	10/3/1990	-0.1	0.001	-0.05	-0.01	0.02	-0.05	0.11	-0.1	-0.05	-0.001	-0.1	0.059	- 2.9	-0.2	-1	-1
GW 4	1/15/1991	0.24	-0.001	-0.01	-0.01	0.01	-0.05	0.04	-0.1	-0.05	0.004	-0.1	0.0647	- 1.8	-0.2	-1	1.2
GW 4	4/2/1991	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.08	-0.1	-0.05	0.005	-0.1	0.048	- 1.2	-0.2	2.2	-1
GW 4	7/17/1991	-0.1	0.001	-0.01	-0.01	-0.01	-0.05	0.14	-0.1	-0.05	0.008	-0.1	0.044	- 1.2	-0.2	-1	-1
GW 4	10/15/1991	-0.1	0.001	-0.01	-0.01	-0.01	-0.05	0.14	-0.1	-0.05	0.008	-0.1	0.044	- 2.2	-0.2	-1	-1
GW 4	1/15/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.1	-0.1	-0.05	0.006	-0.1	0.124	- 2.1	-0.2	-1	-1
GW 4	4/7/1992	-0.1	0.004	-0.01	-0.01	-0.01	-0.05	0.06	-0.1	-0.05	0.019	-0.1	0.07	- 7.3	-0.2	6.3	-1
GW 4	7/8/1992	-0.1	0.001	-0.01	-0.01	-0.01	-0.05	0.05	-0.1	-0.05	0.004	-0.1	0.047	- 2.8	-0.2	-1	-1
GW 4	10/6/1992	0.1	0.002	-0.01	-0.01	-0.01	-0.05	0.05	0.1	-0.05	0.016	-0.1	0.086	- 1.3	-0.2	-1	-1
GW 4	1/6/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.06	-0.1	-0.05	0.015	-0.1	0.111	- 3.3	-0.2	-1	5.1
GW 4	4/6/1993	-0.1	0.001	-0.005	-0.01	0.01	-0.05	0.05	-0.1	-0.05	0.01	-0.1	0.081	- 1.3	-0.2	2.8	-1
GW 4	7/13/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.04	-0.1	-0.05	0.016	-0.1	0.064	- 1.2	-0.2	3.2	-1
GW 4	10/6/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.05	-0.1	-0.05	0.007	-0.1	0.073	- 1.5	-0.2	1.2	1.9
GW 4	1/6/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.08	-0.1	-0.05	0.007	-0.1	0.052	6.6	-0.2	1.6	10.6
GW 4	4/13/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.04	-0.1	-0.05	0.004	-0.1	0.067	- 1.9	-0.2	6.8	-1
GW 4	7/20/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	0.007	-0.1	0.067	15.3	-0.2	-1	22.9
GW 4	10/4/1994	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	0.004	-0.1	0.087	- 1.2	-0.2	-1	-1
GW 4	1/5/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.07	-0.1	-0.05	0.002	-0.1	0.062	- 2.1	-0.2	-1	1.3
GW 4	4/4/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.04	-0.1	-0.05	0.005	-0.1	0.072	- 1.6	-0.2	-1	-1
GW 4	7/6/1995	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.09	-0.1	-0.05	0.012	-0.1	0.0374	- 1.9	0.4	-1	-1
GW 4	10/3/1995	-0.1	0.004	-0.01	-0.01	-0.01	-0.05	0.09	-0.1	-0.05	0.019	-0.1	0.0711	- 1.3	-0.2	-1	1.3
GW 4	1/2/1996													-			
GW 4	4/2/1996	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.1	0.065	- 1.3	-0.2	-1	-1
GW 4	7/9/1996													-			
GW 4	10/1/1996	0.19	0.001	-0.01	-0.01	-0.01	-0.05	0.08	-0.1	-0.05	0.007	-0.1	0.063	- 1.8	0.8	-1	-1
GW 4	1/22/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.07	-0.1	-0.05	0.003	-0.1	0.06	- 1.2	-0.2	-1	-1
GW 4	4/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.1	-0.1	-0.05	0.274	-0.1	0.066	- 1.2	-0.2	-1	-1

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
GW 4	7/8/1997	6,908.80	7.3	7.77	3,890	730	192	144	11	667	1,710	46.2	0.12	111	-0.001
GW 4	10/7/1997	6,909.60	6.7	7.7	3,950	736	183	153	11.3	798	1,610	44	0.06	106	-0.001
GW 4	1/16/1998	6,910.50	7.2	7.94	3,880	712	188	162	12.1	817	1,800	44.2	0.22	105	-0.001
GW 4	4/7/1998	6,910.50	7	7.69	3,890	715	192	153	11.3	777	1,600	35	-0.05	95.6	-0.001
GW 4	7/7/1998	6,910.30	7.2	7.8	3,870	700	190	163	11.8	797	1,600	38.7	0.12	86.9	-0.001
GW 4	10/6/1998	6,910.20	7.18	7.92	3,840	714	198	165	13	670	1,780	42.4	0.28	105	-0.001
GW 4	1/5/1999	6,910.00	7.3	7.78	3,810	650	182	151	11.3	622	1,620	41.4	0.13	75.7	-0.001
GW 4	4/6/1999	6,910.40	7.2	7.99	3,810	675	179	146	11.5	644	1,620	50.1	0.26	100	-0.001
GW 4	7/13/1999	6,909.25	7.2												

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
GW 4	7/8/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.12	-0.1	-0.05	-0.001	-0.1	0.063	- 3.6	-0.2	-1	2.9
GW 4	10/7/1997	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.16	-0.1	-0.05	0.004	-0.1	0.066	- 1.5	-0.2	-1	-1
GW 4	1/16/1998	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.04	-0.1	-0.05	0.005	-0.1	0.0714	- 1.2	-0.2	-1	-1
GW 4	4/7/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.1	-0.1	-0.05	0.037	-0.1	0.0729	- 1.5	-0.2	-1	-1
GW 4	7/7/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.09	-0.1	-0.05	0.024	-0.1	0.0734	- 1.5	-0.2	-1	-1
GW 4	10/6/1998	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.21	-0.1	-0.05	0.005	-0.1	0.0782	- 1.2	-0.2	-1	-1
GW 4	1/5/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.11	-0.1	-0.05	0.009	-0.1	0.0744	- 2.2	-0.2	-1	-1
GW 4	4/6/1999	-0.1	-0.001	-0.01	-0.005	-0.01	-0.05	0.1	-0.1	-0.05	0.007	-0.1	0.0715	- 1.8	-0.2	-1	-1
GW 4	7/13/1999													-		-1	

TAB A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Water Elevation (ft amsl)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	NH4 as N (mg/L)	NO3 as N (mg/L)	Chloroform (mg/L)
NRC Standard		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.001**
EPA Standard		**NA**	**NA**	**NA**	**4,800**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,125**	**250**	**NA**	**190**	**NA**
NR 01	1/23/1992	6,975.25	6.8	7.62	2,436	409	148	79.2	1.9	351	1,297	157	-0.05	10.4	-0.001
NR 01	4/3/1992	6,974.65	6.7	7.62	2,561	433	156	92	1.6	282	1,369	141	-0.05	23.7	-0.001
NR 01	7/16/1992	6,974.00		7.24	2,666	390	163	87.5	3.2	328	1,398	145	-0.05	17.7	-0.001
NR 01	10/15/1992	6,973.40	6.9	7.41	2,538	435	145	87.8	2.8	338	1,357	72.7	-0.05	13.6	-0.001
NR 01	1/14/1993	6,973.00		7.41	2,513	436	140	80.7	2.3	336	1,399	125	-0.05	12.9	-0.001
NR 01	4/15/1993	6,972.70	7	7.54	2,575	455	139	84.3	1.1	338	1,426	140	-0.05	18.8	-0.001
NR 01	7/13/1993	6,972.20	7	7.77	2,603	469	146	92	2	343	1,417	129	-0.05	16.2	-0.001
NR 01	10/11/1993	6,969.40	7.1												

TABLE A.1
SOUTHWEST ALLUVIUM DATA SUMMARY
1989-2002

Well Number	Date	Al (mg/L)	As (mg/L)	Be (mg/L)	Cd (mg/L)	Co (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	V (mg/L)	U (mg/L)	Ra-226+ Ra-228 (pCi/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Gross Alpha (pCi/L)
NRC Standard		**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.05**	**0.01**	**0.1**	**0.3**	**5.0**	**5.0**	**1.0**	**15.0**
EPA Standard		**5.0**	**0.05**	**0.017**	**0.01**	**0.05**	**0.05**	**2.6**	**1.0**	**0.2**	**0.01**	**0.7**	**5.0**	**5.0**	**NA**	**NA**	**15.0**
NR 01	1/23/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.05	-0.1	-0.05	-0.001	-0.1	0.019	- 1.4	-0.2	-1	-1
NR 01	4/3/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.04	-0.1	-0.05	0.01	-0.1	-0.0003	- 2.7	-0.2	1.3	-1
NR 01	7/16/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.04	-0.1	-0.05	0.002	-0.1	0.016	1.5	-0.2	-1	-1
NR 01	10/15/1992	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.05	-0.1	-0.05	-0.001	-0.1	0.004	2.5	-0.2	2	-1
NR 01	1/14/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.05	-0.1	-0.05	0.001	-0.1	0.02	- 1.2	-0.2	-1	-1
NR 01	4/15/1993	-0.1	-0.001	-0.01	-0.01	-0.01	-0.05	0.05	-0.1	-0.05	0.001	-0.1	0.02	- 1.2	-0.2	-1	-1
NR 01	7/13/1993	-0.1	0.001	-0.01	-0.01	-0.01	-0.05	0.06	-0.1	-0.05	0.002	-0.1	0.014	- 4.6	-0.2	-1	-1
NR 01	10/11/1993													-			

LABORATORY ANALYTICAL DATA
2002

LABORATORY ANALYSIS REPORT
UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: SOUTHWEST ALLUVIUM MONITOR WELLS

WELL ID:	624	624	624	624
LABORATORY ID:	C02050336-011	C02060276-010	C02070393-010	C02100477-012
SAMPLE DATE/TIME:	05/07/2002 08:45	06/04/2002 09:00	07/09/2002 09:20	10/08/2002 11:30
RECEIVED DATE/TIME:	05/10/2002 10:00	06/10/2002 10:00	07/12/2002 10:00	10/14/2002 10:00
REPORT DATE:	June 5, 2002	June 27, 2002	July 24, 2002	November 8, 2002
UNC SUBMITTAL #:	TE-8-5-2002	TE-9-6-2002	TE-10-7-2002	TE-12-10-2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	0.05	719	720	713	659
Magnesium	EPA 200.7	mg/L	0.01	448	450	463	425
Sodium	EPA 200.7	mg/L	0.05	226	201	223	208
Potassium	EPA 200.7	mg/L	0.10	7.4	6.4	7.3	6.2
Bicarbonate	SM 2320-B	mg/L	0.10	1480	1480	1500	1490
Sulfate	EPA 200.7	mg/L	1.0	2100	1830	2150	1810
Chloride	EPA 200.7	mg/L	1.0	186	181	200	173
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	0.13	0.05	0.05	0.08
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	104	96.3	92.4	97.1
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	5220	5220	5300	5150
pH	SM 4500-H-B	std. units	0.10	7.61	7.66	7.42	7.25
Trace Metals, dissolved							
Aluminum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Arsenic III	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	0.03	0.03	0.03	0.03
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium IV	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Radiometrics							
Uranium, dissolved	EPA 200.8	mg/L	0.0003	0.0355	0.0333	0.0360	0.0262
Radium 226	EPA 903.0	pCi/L	0.2	0.5	< 0.2	0.3	< 0.2
Radium Error Estimate ±				0.2	-	0.2	-
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Radium Error Estimate ±				-	-	-	-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Thorium Error Estimate ±				-	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Lead Error Estimate ±				-	-	-	-
Gross Alpha-Rn&U	EPA 900.1	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
G. Alpha Error Estimate ±				-	-	-	-
Trace Organics							
Chloroform	EPA 8260	µg/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0

Quality Assurance Data		Target Range				
Anion	meq		80.7	74.4	81.6	73.9
Cation	meq		83.3	82.4	84.1	77.6
SM A/C Balance	%	-5 - +5	1.60	5.13	1.51	2.40
Calc TDS	mg/L		4887	4555	4916	4456
TDS A/C Balance	dec. %	0.80 - 1.20	1.07	1.15	1.08	1.16

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LABORATORY ANALYSIS REPORT
UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: SOUTHWEST ALLUVIUM MONITOR WELLS

	624	624 Duplicate	624 Duplicate	624 Duplicate
WELL ID:				
LABORATORY ID:	C02040226-010	C02040226-011	C02060276-011	C02100477-013
SAMPLE DATE/TIME:	04/02/2002 09:00	04/02/2002 09:25	06/04/2002 09:30	10/08/2002 12:00
RECEIVED DATE/TIME:	04/08/2002 10:30	04/08/2002 10:30	06/10/2002 10:00	10/14/2002 10:00
REPORT DATE:	April 27, 2002	April 27, 2002	June 27, 2002	November 8, 2002
UNC SUBMITTAL #:	TE-5-4-2002	TE-5-4-2002	TE-9-6-2002	TE-12-10-2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	0.05	748	741	711	663
Magnesium	EPA 200.7	mg/L	0.01	464	459	444	427
Sodium	EPA 200.7	mg/L	0.05	225	220	208	207
Potassium	EPA 200.7	mg/L	0.10	8.3	8.0	6.0	6.1
Bicarbonate	SM 2320-B	mg/L	0.10	1500	1500	1480	1480
Sulfate	EPA 200.7	mg/L	1.0	2180	2130	1850	1800
Chloride	EPA 200.7	mg/L	1.0	203	206	174	167
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	0.06	0.05	0.08	0.06
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	95.5	95.7	92.1	96.6
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	5270	5210	5210	5160
pH	SM 4500-H-B	std. units	0.10	7.45	7.48	7.68	7.40
Trace Metals, dissolved							
Aluminum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Arsenic III	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	0.04	< 0.03	0.03	0.02
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium IV	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Radiometrics							
Uranium, dissolved	EPA 200.8	mg/L	0.0003	0.0326	0.0338	0.0314	0.0265
Radium 226	EPA 903.0	pCi/L	0.2	< 0.2	< 0.4	< 0.2	< 0.2
Radium Error Estimate ±				-	0.2	-	-
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Radium Error Estimate ±				-	-	-	-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Thorium Error Estimate ±				-	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Lead Error Estimate ±				-	-	-	-
Gross Alpha-Rn&U	EPA 900.1	pCi/L	1.0	< 1.0	< 1.5	< 1.0	< 1.0
G. Alpha Error Estimate ±				-	1.0	-	-
Trace Organics							
Chloroform	EPA 8260	µg/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0

Quality Assurance Data		Target Range				
Anion	meq		82.5	81.6	74.3	73.4
Cation	meq		86.1	85.1	81.8	77.9
SM A/C Balance	%	-5 - +5	2.09	2.08	4.79	2.99
Calc TDS	mg/L		5001	4938	4541	4438
TDS A/C Balance	dec. %	0.80 - 1.20	1.05	1.06	1.15	1.16

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LABORATORY ANALYSIS REPORT
UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: SOUTHWEST ALLUVIUM MONITOR WELLS

WELL ID:	627	627	627	627
LABORATORY ID:	C02050336-015	C02060276-015	C02070393-015	C02100477-006
SAMPLE DATE/TIME:	05/07/2002 13:00	06/04/2002 13:10	07/09/2002 14:10	10/07/2002 15:05
RECEIVED DATE/TIME:	05/10/2002 10:00	06/10/2002 10:00	07/12/2002 10:00	10/14/2002 10:00
REPORT DATE:	June 5, 2002	June 27, 2002	July 24, 2002	November 8, 2002
UNC SUBMITTAL #:	TE-8-5-2002	TE-9-6-2002	TE-10-7-2002	TE-12-10-2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	0.05	594	607	587	543
Magnesium	EPA 200.7	mg/L	0.01	294	300	306	280
Sodium	EPA 200.7	mg/L	0.05	512	479	495	455
Potassium	EPA 200.7	mg/L	0.10	5.9	4.6	5.5	4.7
Bicarbonate	SM 2320-B	mg/L	0.10	601	602	608	611
Sulfate	EPA 200.7	mg/L	1.0	2500	2550	2590	2160
Chloride	EPA 200.7	mg/L	1.0	59.7	53.8	76.0	50.1
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	0.08	0.12	< 0.05	0.06
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	137	122	133	139
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	5180	5190	5350	4170
pH	SM 4500-H-B	std. units	0.10	7.84	7.71	7.90	7.65
Trace Metals, dissolved							
Aluminum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Arsenic III	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	0.13	0.13	0.11	0.09
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium IV	SM 3114-B	mg/L	0.001	0.001	< 0.001	< 0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Radiometrics							
Uranium, dissolved	EPA 200.8	mg/L	0.0003	0.0249	0.0246	0.0228	0.0198
Radium 226	EPA 903.0	pCi/L	0.2	< 0.2	0.7	0.3	< 0.2
Radium Error Estimate ±				-	0.2	0.2	-
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Radium Error Estimate ±				-	-	-	-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Thorium Error Estimate ±				-	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Lead Error Estimate ±				-	-	-	-
Gross Alpha-Rn&U	EPA 900.1	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
G. Alpha Error Estimate ±				-	-	-	-
Trace Organics							
Chloroform	EPA 8260	µg/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0

Quality Assurance Data		Target Range				
Anion	meq		73.4	73.2	75.6	66.4
Cation	meq		76.6	76.3	76.5	70.4
SM A/C Balance	%	-5 - +5	2.15	2.06	0.63	2.95
Calc TDS	mg/L		4873	4836	4953	4414
TDS A/C Balance	dec. %	0.80 - 1.20	1.06	1.07	1.08	0.94

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LABORATORY ANALYSIS REPORT
UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: SOUTHWEST ALLUVIUM MONITOR WELLS

WELL ID:	632	632	632	632
LABORATORY ID:	C02050336-006	C02060276-009	C02070393-009	C02100477-015
SAMPLE DATE/TIME:	05/06/2002 11:40	06/03/2002 14:50	07/08/2002 15:15	10/08/2002 14:20
RECEIVED DATE/TIME:	05/10/2002 10:00	06/10/2002 10:00	07/12/2002 10:00	10/14/2002 10:00
REPORT DATE:	June 4, 2002	June 27, 2002	July 24, 2002	November 8, 2002
UNC SUBMITTAL #:	TE-8-5-2002	TE-9-6-2002	TE-10-7-2002	TE-12-10-2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	0.05	649	645	645	578
Magnesium	EPA 200.7	mg/L	0.01	715	717	761	685
Sodium	EPA 200.7	mg/L	0.05	388	349	292	356
Potassium	EPA 200.7	mg/L	0.10	10.7	8.90	11.4	8.70
Bicarbonate	SM 2320-B	mg/L	0.10	1720	1710	1710	1700
Sulfate	EPA 200.7	mg/L	1.0	3270	3290	3490	3150
Chloride	EPA 200.7	mg/L	1.0	260	240	229	221
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	0.34	0.34	0.36	0.30
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	43.7	45.1	43.3	45.7
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	7130	7150	7200	7100
pH	SM 4500-H-B	std. units	0.10	7.16	7.30	7.75	7.29
Trace Metals, dissolved							
Aluminum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Arsenic III	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	1.12	1.00	0.96	1.07
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium IV	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Radiometrics							
Uranium, dissolved	EPA 200.8	mg/L	0.0003	0.0636	0.0580	0.0708	0.0521
Radium 226	EPA 903.0	pCi/L	0.2	0.8	0.6	1.0	2.1
Radium Error Estimate ±				0.2	0.2	0.2	0.2
Radium 228	EPA 904.0	pCi/L	1.0	2.2	< 1.0	< 1.0	< 1.0
Radium Error Estimate ±				1.0	-	-	-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Thorium Error Estimate ±				-	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Lead Error Estimate ±				-	-	-	-
Gross Alpha-Rn&U	EPA 900.1	pCi/L	1.0	2.1	< 1.0	< 1.0	< 1.0
G. Alpha Error Estimate ±				1.0	-	-	-
Trace Organics							
Chloroform	EPA 8260	µg/L	1.0	2.4	2.8	2.4	2.6

Quality Assurance Data		Target Range				
Anion	meq		107	107	110	103
Cation	meq		109	107	109	102
SM A/C Balance	%	-5 - +5	1.16	0.43	-0.71	-0.60
Calc TDS	mg/L		6348	6306	6477	6053
TDS A/C Balance	dec. %	0.80 - 1.20	1.12	1.13	1.11	1.17

LABORATORY ANALYSIS REPORT
UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: SOUTHWEST ALLUVIUM MONITOR WELLS

WELL ID:	801	801	801	801
LABORATORY ID:	C02050336-007	C02060276-006	C02070393-006	C02100477-009
SAMPLE DATE/TIME:	05/06/2002 13:40	06/03/2002 13:10	07/08/2002 13:35	10/08/2002 09:55
RECEIVED DATE/TIME:	05/10/2002 10:00	06/10/2002 10:00	07/12/2002 10:00	10/14/2002 10:00
REPORT DATE:	June 4, 2002	June 27, 2002	July 24, 2002	November 8, 2002
UNC SUBMITTAL #:	TE-8-5-2002	TE-9-6-2002	TE-10-7-2002	TE-12-10-2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	0.05	564	561	552	515
Magnesium	EPA 200.7	mg/L	0.01	762	754	778	699
Sodium	EPA 200.7	mg/L	0.05	341	328	257	328
Potassium	EPA 200.7	mg/L	0.10	14.4	12.2	13.8	12.7
Bicarbonate	SM 2320-B	mg/L	0.10	1570	1570	1570	1560
Sulfate	EPA 200.7	mg/L	1.0	3520	3460	3570	3260
Chloride	EPA 200.7	mg/L	1.0	242	208	194	206
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	6.40	6.50	6.30	6.40
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	2.34	2.13	2.04	1.99
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	7030	7070	7050	6960
pH	SM 4500-H-B	std. units	0.10	7.38	7.43	7.69	7.58
Trace Metals, dissolved							
Aluminum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Arsenic III	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	6.84	6.36	5.85	5.66
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	0.06	< 0.05	< 0.05	< 0.05
Selenium IV	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Radiometrics							
Uranium, dissolved	EPA 200.8	mg/L	0.0003	0.0472	0.0420	0.0488	0.0343
Radium 226	EPA 903.0	pCi/L	0.2	< 0.2	< 0.2	0.3	< 0.2
Radium Error Estimate ±				-	-	0.2	-
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Radium Error Estimate ±				-	-	-	-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Thorium Error Estimate ±				-	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Lead Error Estimate ±				-	-	-	-
Gross Alpha-Rn&U	EPA 900.1	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
G. Alpha Error Estimate ±				-	-	-	-
Trace Organics							
Chloroform	EPA 8260	µg/L	1.0	3.0	3.7	3.0	3.2
Quality Assurance Data			**Target Range**				
Anion		meq		106	104	106	99
Cation		meq		108	106	105	99
SM A/C Balance		%	-5 - +5	0.78	1.16	-0.47	-0.04
Calc TDS		mg/L		6254	6132	6173	5823
TDS A/C Balance		dec. %	0.80 - 1.20	1.12	1.15	1.14	1.20

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LABORATORY ANALYSIS REPORT
UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: SOUTHWEST ALLUVIUM MONITOR WELLS

WELL ID:	802	802	802	802
LABORATORY ID:	C02050336-005	C02060276-005	C02070393-005	C02100477-002
SAMPLE DATE/TIME:	05/06/2002 11:10	06/03/2002 11:35	07/08/2002 13:00	10/07/2002 10:30
RECEIVED DATE/TIME:	05/10/2002 10:00	06/10/2002 10:00	07/12/2002 10:00	10/14/2002 10:00
REPORT DATE:	June 4, 2002	June 27, 2002	July 24, 2002	November 8, 2002
UNC SUBMITTAL #:	TE-8-5-2002	TE-9-6-2002	TE-10-7-2002	TE-12-10-2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	0.05	815	859	830	774
Magnesium	EPA 200.7	mg/L	0.01	643	705	720	710
Sodium	EPA 200.7	mg/L	0.05	302	299	265	317
Potassium	EPA 200.7	mg/L	0.10	7.8	6.6	7.7	6.2
Bicarbonate	SM 2320-B	mg/L	0.10	2090	2160	2190	2140
Sulfate	EPA 200.7	mg/L	1.0	2790	3090	3150	3060
Chloride	EPA 200.7	mg/L	1.0	215	196	227	187
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	0.05	0.08	0.20	0.08
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	107	103	99.1	95.2
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	7050	7430	7470	5680
pH	SM 4500-H-B	std. units	0.10	7.24	7.94	7.84	7.99
Trace Metals, dissolved							
Aluminum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Arsenic III	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	0.70	0.53	0.55	0.65
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium IV	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Radiometrics							
Uranium, dissolved	EPA 200.8	mg/L	0.0003	0.227	0.199	0.248	0.205
Radium 226	EPA 903.0	pCi/L	0.2	< 0.2	< 0.2	0.5	< 0.2
Radium Error Estimate ±				-	-	0.3	-
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Radium Error Estimate ±				-	-	-	-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Thorium Error Estimate ±				-	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Lead Error Estimate ±				-	-	-	-
Gross Alpha-Rn&U	EPA 900.1	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
G. Alpha Error Estimate ±				-	-	-	-
Trace Organics							
Chloroform	EPA 8260	µg/L	1.0	1.9	3.0	2.6	3.5

Quality Assurance Data		Target Range				
Anion	meq		106	113	115	111
Cation	meq		108	115	113	112
SM A/C Balance	%	-5 - +5	0.76	0.98	-0.76	0.43
Calc TDS	mg/L		6293	6693	6735	6547
TDS A/C Balance	dec. %	0.80 - 1.20	1.12	1.11	1.11	0.87

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LABORATORY ANALYSIS REPORT
UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: SOUTHWEST ALLUVIUM MONITOR WELLS

WELL ID:	803	803	803	803
LABORATORY ID:	C02050336-003	C02060276-003	C02070393-003	C02100477-008
SAMPLE DATE/TIME:	05/06/2002 10:10	06/03/2002 10:35	07/08/2002 10:55	10/08/2002 09:20
RECEIVED DATE/TIME:	05/10/2002 10:00	06/10/2002 10:00	07/12/2002 10:00	10/14/2002 10:00
REPORT DATE:	June 4, 2002	June 27, 2002	July 24, 2002	November 8, 2002
UNC SUBMITTAL #:	TE-8-5-2002	TE-9-6-2002	TE-10-7-2002	TE-12-10-2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	0.05	734	749	711	678
Magnesium	EPA 200.7	mg/L	0.01	718	743	725	690
Sodium	EPA 200.7	mg/L	0.05	259	240	214	244
Potassium	EPA 200.7	mg/L	0.10	12.5	11.0	10.9	11.3
Bicarbonate	SM 2320-B	mg/L	0.10	1890	1910	1890	1880
Sulfate	EPA 200.7	mg/L	1.0	3140	3250	3150	3060
Chloride	EPA 200.7	mg/L	1.0	182	165	148	163
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	0.72	0.86	0.78	1.04
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	55.4	52.7	51.3	55.2
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	7010	7130	7110	5300
pH	SM 4500-H-B	std. units	0.10	7.13	7.44	7.60	7.44
Trace Metals, dissolved							
Aluminum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Arsenic III	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	1.87	1.80	1.77	1.60
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	0.06	< 0.05	< 0.05	< 0.05
Selenium IV	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Radiometrics							
Uranium, dissolved	EPA 200.8	mg/L	0.0003	0.174	0.153	0.201	0.132
Radium 226	EPA 903.0	pCi/L	0.2	< 0.2	< 0.2	0.4	< 0.2
Radium Error Estimate ±				-	-	0.3	-
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Radium Error Estimate ±				-	-	-	-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Thorium Error Estimate ±				-	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Lead Error Estimate ±				-	-	-	-
Gross Alpha-Rn&U	EPA 900.1	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
G. Alpha Error Estimate ±				-	-	-	-
Trace Organics							
Chloroform	EPA 8260	µg/L	1.0	< 1.0	1.2	< 1.0	1.1

Quality Assurance Data		Target Range				
Anion	meq		105	107	104	103
Cation	meq		108	110	106	102
SM A/C Balance	%	-5 - +5	1.30	1.29	0.60	-0.31
Calc TDS	mg/L		6239	6349	6134	6034
TDS A/C Balance	dec. %	0.80 - 1.20	1.12	1.12	1.16	0.88

LABORATORY ANALYSIS REPORT
UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: ZONE 1 MONITOR WELLS

WELL ID:	808	808	808	808
LABORATORY ID:	C02050336-004	C02060276-004	C02070393-004	C02100477-003
SAMPLE DATE/TIME:	05/06/2002 10:45	06/03/2002 11:05	07/08/2002 11:25	10/07/2002 11:00
DATE/TIME RECEIVED:	05/10/2002 10:00	06/10/2002 10:00	07/12/2002 10:00	10/14/2002 10:00
REPORT DATE:	April 27, 2002	June 27, 2002	July 24, 2002	November 8, 2002
UNC SUBMITTAL #:	TE-5-4-2002	TE-9-6-2002	TE-10-7-2002	TE-12-10-2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	1.0	773	781	782	705
Magnesium	EPA 200.7	mg/L	1.0	644	655	682	620
Sodium	EPA 200.7	mg/L	1.0	287	270	230	290
Potassium	EPA 200.7	mg/L	1.0	7.6	5.9	7.3	5.2
Bicarbonate	SM 2320-B	mg/L	0.10	1950	1960	1960	1970
Sulfate	EPA 200.7	mg/L	1.0	2690	2750	2850	2630
Chloride	EPA 200.7	mg/L	1.0	208	173	173	168
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	0.16	0.09	0.15	< 0.05
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	125	120	115	113
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	6900	6810	6950	5260
pH	SM 4500-H-B	std. units	0.10	7.15	7.36	7.63	7.19
Trace Metals, dissolved							
Aluminum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Arsenic III	SM 3114-C	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	0.71	0.65	0.64	0.65
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium IV	SM 3114-C	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Radiometrics, dissolved							
Uranium	EPA 200.8	mg/L	0.0003	0.148	0.142	0.169	0.115
Radium 226	EPA 903.0	pCi/L	0.2	< 0.2	< 0.2	0.3	< 0.2
Radium Error Estimate ±				-	-	0.2	-
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0	< 1.0	1.0	< 1.0
Radium Error Estimate ±				-	-	-	-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	0.2	< 0.2
Thorium Error Estimate ±				-	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	1.0	< 1.0
Lead Error Estimate ±				-	-	-	-
Gross Alpha-Rn&U	EPA 900.1	pCi/L	1.0	< 1.0	< 1.0	1.0	< 1.0
G. Alpha Error Estimate ±				-	-	-	-
Trace Organics							
Chloroform	EPA 624	µg/L	1.0	4.0	4.8	4.2	5.0
Quality Assurance Data			**Target Range**				
Anion		meq		103	103	105	100
Cation		meq		105	106	106	100
SM A/C Balance		%	-5 - +5	1.08	1.29	0.75	-0.10
Calc TDS		mg/L		6139	6147	6215	5905
TDS A/C Balance		dec. %	0.80 - 1.20	1.12	1.11	1.12	0.89

LABORATORY ANALYSIS REPORT
UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: SOUTHWEST ALLUVIUM MONITOR WELLS

WELL ID:	EPA-23	EPA-23	EPA-23	EPA-23
LABORATORY ID:	C02050336-002	C02060276-002	C02070393-002	C02100477-007
SAMPLE DATE/TIME:	05/06/2002 09:40	06/03/2002 10:00	07//08/2002 10:20	10/08/2002 08:45
RECEIVED DATE/TIME:	05/10/2002 10:00	06/10/2002 10:00	07/12/2002 10:00	10/14/2002 10:00
REPORT DATE:	June 4, 2002	June 27, 2002	July 24, 2002	November 8, 2002
UNC SUBMITTAL #:	TE-8-5-2002	TE-9-6-2002	TE-10-7-2002	TE-12-10-2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	0.05	661	664	656	628
Magnesium	EPA 200.7	mg/L	0.01	380	382	395	372
Sodium	EPA 200.7	mg/L	0.05	127	117	119	118
Potassium	EPA 200.7	mg/L	0.10	11.0	9.4	10.2	9.50
Bicarbonate	SM 2320-B	mg/L	0.10	1080	1060	1070	1080
Sulfate	EPA 200.7	mg/L	1.0	2240	2270	2320	2010
Chloride	EPA 200.7	mg/L	1.0	77.7	73.5	78.2	75.6
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	1.11	1.12	1.34	1.47
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	1.09	1.05	0.91	0.98
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	4500	4480	4520	4280
pH	SM 4500-H-B	std. units	0.10	7.17	7.37	7.55	7.59
Trace Metals, dissolved							
Aluminum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Arsenic III	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	5.41	5.43	4.62	4.67
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium IV	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Radiometrics							
Uranium, dissolved	EPA 200.8	mg/L	0.0003	0.0252	0.0262	0.0291	0.0197
Radium 226	EPA 903.0	pCi/L	0.2	< 0.2	< 0.2	0.6	0.8
Radium Error Estimate ±				-	-	0.2	0.4
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Radium Error Estimate ±				-	-	-	-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Thorium Error Estimate ±				-	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Lead Error Estimate ±				-	-	-	-
Gross Alpha-Rn&U	EPA 900.1	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
G. Alpha Error Estimate ±				-	-	-	-
Trace Organics							
Chloroform	EPA 8260	µg/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Quality Assurance Data			**Target Range**				
Anion		meq		66.6	66.8	68.1	61.8
Cation		meq		70.9	70.7	71.5	68.1
SM A/C Balance		%	-5 - +5	3.10	2.85	2.40	4.89
Calc TDS		mg/L		4048	4057	4124	3764
TDS A/C Balance		dec. %	0.80 - 1.20	1.11	1.10	1.10	1.14

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LABORATORY ANALYSIS REPORT
UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: SOUTHWEST ALLUVIUM MONITOR WELLS

WELL ID:	EPA-25	EPA-25	EPA-25	EPA-25
LABORATORY ID:	C02050336-014	C02060276-014	C02070393-014	C02100477-004
SAMPLE DATE/TIME:	05/07/2002 11:30	06/04/2002 11:30	07/09/2002 11:50	10/07/2002 12:10
RECEIVED DATE/TIME:	05/10/2002 10:00	06/10/2002 10:00	07/12/2002 10:00	10/14/2002 10:00
REPORT DATE:	June 5, 2002	June 27, 2002	July 24, 2002	November 8, 2002
UNC SUBMITTAL #:	TE-8-5-2002	TE-9-6-2002	TE-10-7-2002	TE-12-10-2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	0.05	733	745	719	647
Magnesium	EPA 200.7	mg/L	0.01	222	230	230	212
Sodium	EPA 200.7	mg/L	0.05	158	149	165	160
Potassium	EPA 200.7	mg/L	0.10	9.1	7.6	6.6	6.9
Bicarbonate	SM 2320-B	mg/L	0.10	828	831	850	802
Sulfate	EPA 200.7	mg/L	1.0	1720	1780	1760	1560
Chloride	EPA 200.7	mg/L	1.0	88.3	79.9	106	70.0
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	0.07	0.07	0.20	0.16
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	91.5	85.6	92.5	82.1
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	4030	4050	4130	3510
pH	SM 4500-H-B	std. units	0.10	7.68	7.70	7.84	7.67
Trace Metals, dissolved							
Aluminum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Arsenic III	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	1.77	1.49	1.45	1.62
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium IV	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Radiometrics							
Uranium, dissolved	EPA 200.8	mg/L	0.0003	0.0994	0.0864	0.0870	0.0778
Radium 226	EPA 903.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Radium Error Estimate ±				-	-	-	-
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Radium Error Estimate ±				-	-	-	-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Thorium Error Estimate ±				< -	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Lead Error Estimate ±				-	-	-	-
Gross Alpha-Rn&U	EPA 900.1	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
G. Alpha Error Estimate ±				-	-	-	-
Trace Organics							
Chloroform	EPA 8260	µg/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0

Quality Assurance Data		Target Range				
Anion	meq		58.4	59.1	60.2	53.5
Cation	meq		62.4	63.2	62.6	57.3
SM A/C Balance	%	-5 - +5	3.25	3.36	1.92	3.40
Calc TDS	mg/L		3752	3788	3823	3422
TDS A/C Balance	dec. %	0.80 - 1.20	1.07	1.07	1.08	1.03

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LABORATORY ANALYSIS REPORT
UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: SOUTHWEST ALLUVIUM MONITOR WELLS

WELL ID:	EPA-28	EPA-28	EPA-28	EPA-28
LABORATORY ID:	C02050336-012	C02060276-012	C02070393-012	C02100477-014
SAMPLE DATE/TIME:	05/07/2002 09:50	06/04/2002 09:55	07/09/2002 10:15	10/08/2002 13:40
RECEIVED DATE/TIME:	05/10/2002 10:00	06/10/2002 10:00	07/12/2002 10:00	10/14/2002 10:00
REPORT DATE:	June 5, 2002	June 27, 2002	July 24, 2002	November 8, 2002
UNC SUBMITTAL #:	TE-8-5-2002	TE-9-6-2002	TE-10-7-2002	TE-12-10-2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	0.05	546	531	549	504
Magnesium	EPA 200.7	mg/L	0.01	507	485	524	480
Sodium	EPA 200.7	mg/L	0.05	210	192	202	192
Potassium	EPA 200.7	mg/L	0.10	13.1	11.4	13.1	11.2
Bicarbonate	SM 2320-B	mg/L	0.10	652	656	683	675
Sulfate	EPA 200.7	mg/L	1.0	2780	2660	2850	2680
Chloride	EPA 200.7	mg/L	1.0	119	116	120	113
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	0.05	0.07	0.05	0.05
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	43.9	44.9	43.4	45.3
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	5200	5150	5250	5190
pH	SM 4500-H-B	std. units	0.10	7.58	7.83	7.58	7.60
Trace Metals, dissolved							
Aluminum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Arsenic III	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	0.47	0.50	0.41	0.44
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium IV	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Radiometrics							
Uranium, dissolved	EPA 200.8	mg/L	0.0003	0.0388	0.0378	0.0464	0.0329
Radium 226	EPA 903.0	pCi/L	0.2	0.9	< 0.2	0.8	< 0.2
Radium Error Estimate ±				0.2	-	0.2	-
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0	2.5	< 1.0	< 1.0
Radium Error Estimate ±				-	1.0	-	-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Thorium Error Estimate ±				-	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Lead Error Estimate ±				-	-	-	-
Gross Alpha-Rn&U	EPA 900.1	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
G. Alpha Error Estimate ±				-	-	-	-
Trace Organics							
Chloroform	EPA 8260	µg/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0

Quality Assurance Data		Target Range				
Anion	meq		75.1	72.6	77.1	73.3
Cation	meq		79.0	75.6	80.3	73.9
SM A/C Balance	%	-5 - +5	2.56	2.02	2.04	0.37
Calc TDS	mg/L		4696	4523	4792	4519
TDS A/C Balance	dec. %	0.80 - 1.20	1.11	1.14	1.10	1.15

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LABORATORY ANALYSIS REPORT
UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: SOUTHWEST ALLUVIUM MONITOR WELLS

WELL ID:	GW-1	GW-1	GW-1	GW-1
LABORATORY ID:	C02050336-009	C02060276-008	C02070393-008	C02100477-011
SAMPLE DATE/TIME:	05/06/2002 14:50	06/03/2002 14:15	07/08/2002 14:40	10/08/2002 11:05
RECEIVED DATE/TIME:	05/10/2002 10:00	06/10/2002 10:00	07/12/2002 10:00	10/14/2002 10:00
REPORT DATE:	June 4, 2002	June 27, 2002	July 24, 2002	November 8, 2002
UNC SUBMITTAL #:	TE-8-5-2002	TE-9-6-2002	TE-10-7-2002	TE-10-12-2002
REVISED REPORT DATE:	-	-	-	December 30, 2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	0.05	763	755	753	708
Magnesium	EPA 200.7	mg/L	0.01	418	423	454	460
Sodium	EPA 200.7	mg/L	0.05	245	230	190	241
Potassium	EPA 200.7	mg/L	0.10	5.8	4.3	6.6	4.0
Bicarbonate	SM 2320-B	mg/L	0.10	1110	1150	1200	1300
Sulfate	EPA 200.7	mg/L	1.0	2450	2400	2500	2320
Chloride	EPA 200.7	mg/L	1.0	160	150	140	170
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	0.56	0.57	0.54	0.42
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	91.0	96.0	99.9	113
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	5490	5530	5630	5850
pH	SM 4500-H-B	std. units	0.10	7.56	7.61	7.80	7.72
Trace Metals, dissolved							
Aluminum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Arsenic III	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	0.05	0.05	0.04	0.04
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	0.05	< 0.05	< 0.05	< 0.05
Selenium IV	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Radiometrics							
Uranium, dissolved	EPA 200.8	mg/L	0.0003	0.114	0.108	0.128	0.0930
Radium 226	EPA 903.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	0.6
Radium Error Estimate ±				-	-	-	0.3
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Radium Error Estimate ±				-	-	-	-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Thorium Error Estimate ±				-	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Lead Error Estimate ±				-	-	-	-
Gross Alpha-Rn&U	EPA 900.1	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
G. Alpha Error Estimate ±				-	-	-	-
Trace Organics							
Chloroform	EPA 8260	µg/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0

Quality Assurance Data		Target Range				
Anion	meq		80.2	79.9	82.8	82.5
Cation	meq		83.8	83.2	84.0	84.3
SM A/C Balance	%	-5 - +5	2.18	1.97	0.67	1.10
Calc TDS	mg/L		5001	4963	5087	5054
TDS A/C Balance	dec. %	0.80 - 1.20	1.10	1.11	1.11	1.16

LABORATORY ANALYSIS REPORT
UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: SOUTHWEST ALLUVIUM MONITOR WELLS

WELL ID:	GW-2	GW-2	GW-2	GW-2
LABORATORY ID:	C02050336-008	C02060276-007	C02070393-007	C02100477-010
SAMPLE DATE/TIME:	05/06/2002 14:15	06/03/2002 13:45	07/08/2002 14:10	10/08/2002 10:30
RECEIVED DATE/TIME:	05/10/2002 10:00	06/10/2002 10:00	07/12/2002 10:00	10/14/2002 10:00
REPORT DATE:	June 4, 2002	June 27, 2002	July 24, 2002	November 8, 2002
UNC SUBMITTAL #:	TE-8-5-2002	TE-9-6-2002	TE-10-7-2002	TE-12-10-2002
REVISED REPORT DATE:	-	-	-	December 30, 2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	0.05	643	645	648	619
Magnesium	EPA 200.7	mg/L	0.01	509	508	530	494
Sodium	EPA 200.7	mg/L	0.05	239	216	178	228
Potassium	EPA 200.7	mg/L	0.10	11.6	9.80	11.3	9.70
Bicarbonate	SM 2320-B	mg/L	0.10	1530	1560	1600	1690
Sulfate	EPA 200.7	mg/L	1.0	2410	2360	2430	2260
Chloride	EPA 200.7	mg/L	1.0	199	178	208	185
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	0.06	0.05	0.16	0.10
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	20.4	22.0	22.5	30.1
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	5340	5390	5470	5550
pH	SM 4500-H-B	std. units	0.10	7.36	7.38	7.67	7.52
Trace Metals, dissolved							
Aluminum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Arsenic III	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	0.52	0.52	0.48	0.51
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium IV	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Radiometrics							
Uranium, dissolved	EPA 200.8	mg/L	0.0003	0.0738	0.0646	0.0821	0.0640
Radium 226	EPA 903.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	2.0
Radium Error Estimate ±				-	-	-	-
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Radium Error Estimate ±				-	-	-	-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Thorium Error Estimate ±				-	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Lead Error Estimate ±				-	-	-	-
Gross Alpha-Rn&U	EPA 900.1	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
G. Alpha Error Estimate ±				-	-	-	-
Trace Organics							
Chloroform	EPA 8260	µg/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0

Quality Assurance Data		Target Range				
Anion	meq		82.4	81.3	84.3	82.1
Cation	meq		85.3	84.3	84.6	82.3
SM A/C Balance	%	-5 - +5	1.75	1.77	0.18	0.10
Calc TDS	mg/L		4868	4795	4906	4775
TDS A/C Balance	dec. %	0.80 - 1.20	1.10	1.12	1.12	1.16

LABORATORY ANALYSIS REPORT
UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: SOUTHWEST ALLUVIUM MONITOR WELLS

WELL ID:	GW-3	GW-3	GW-3	GW-3
LABORATORY ID:	C02050336-013	C02060276-013	C02070393-013	C02100477-005
SAMPLE DATE/TIME:	05/07/2002 10:40	06/04/2002 10:45	07/09/2002 11:00	10/07/2002 14:10
RECEIVED DATE/TIME:	05/10/2002 10:00	06/10/2002 10:00	07/12/2002 10:00	10/14/2002 10:00
REPORT DATE:	June 5, 2002	June 27, 2002	July 24, 2002	November 8, 2002
UNC SUBMITTAL #:	TE-8-5-2002	TE-9-6-2002	TE-10-7-2002	TE-12-10-2002
REVISED REPORT DATE:	-	-	-	December 30, 2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	0.05	953	958	953	884
Magnesium	EPA 200.7	mg/L	0.01	288	293	302	276
Sodium	EPA 200.7	mg/L	0.05	250	236	157	223
Potassium	EPA 200.7	mg/L	0.10	10.2	8.0	8.8	8.0
Bicarbonate	SM 2320-B	mg/L	0.10	1510	1520	1560	1620
Sulfate	EPA 200.7	mg/L	1.0	2120	2110	2170	2030
Chloride	EPA 200.7	mg/L	1.0	159	148	127	150
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	0.08	0.10	0.24	0.22
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	82.4	83.4	93.2	83.8
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	5320	5330	5430	4510
pH	SM 4500-H-B	std. units	0.10	7.44	7.67	7.38	7.35
Trace Metals, dissolved							
Aluminum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Arsenic III	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	0.01	0.01	< 0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	2.18	1.97	1.79	1.95
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	0.08	< 0.05	< 0.05	< 0.05
Selenium IV	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Radiometrics							
Uranium, dissolved	EPA 200.8	mg/L	0.0003	0.0800	0.0789	0.0934	0.0713
Radium 226	EPA 903.0	pCi/L	0.2	< 0.2	0.4	< 0.2	< 0.2
Radium Error Estimate ±				-	0.2	-	-
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Radium Error Estimate ±				-	-	-	-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Thorium Error Estimate ±				-	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Lead Error Estimate ±				-	-	-	-
Gross Alpha-Rn&U	EPA 900.1	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
G. Alpha Error Estimate ±				-	-	-	-
Trace Organics							
Chloroform	EPA 8260	µg/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0

Quality Assurance Data		Target Range				
Anion	meq		79.3	79.0	81.0	79.1
Cation	meq		82.9	82.9	80.0	77.2
SM A/C Balance	%	-5 - +5	2.23	2.41	-0.64	-1.18
Calc TDS	mg/L		4903	4885	4913	4754
TDS A/C Balance	dec. %	0.80 - 1.20	1.09	1.09	1.11	0.95