Appendix C

Analytical Chemistry Data

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Section C1.0

Analytical Data for Deleted Contaminants of Concern

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Montezuma Creek Hardness Data
November 1992 to October 2002

	Mean Hardness (mg/L)	Range	Number of Samples
Reference Sites	551	156–1,320	43
On Site	799	308–1,150	62
Upper Montezuma Creek	782	382–1,090	108
Middle Montezuma Creek	877	862–889	4
Lower Montezuma Creek	671	411–968	50

Aquatic Criteria Adjustments

Copper

4-Day Average Concentration (µg/L) $= e^{(0.8545\,(\ln 400) - 1.465)}$
$= 38.66$ µg/L

1-Hour Average Concentration (µg/L) $= e^{(0.9422\,(\ln 400) - 1.464)}$
$= 65.44$ µg/L

Lead

4-Day Average Concentration (µg/L) $= e^{(1.273\,(\ln 400) - 4.705)}$
$= 18.58$ µg/L

1-Hour Average Concentration (µg/L) $= e^{(1.273\,(\ln 400) - 1.460)}$
$= 476.82$ µg/L

Zinc

4-Day Average Concentration (µg/L) $= e^{(0.8473\,(\ln 400) + 0.7614)}$
$= 343.08$ µg/L

1-Hour Average Concentration (µg/L) $= e^{(0.8473\,(\ln 400) + 0.8604)}$
$= 378.78$ µg/L

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Surface Water Ammonium Data Summary[a]

Well Id	2002/01 Filt	2002/10 Filt
On-Site		
SW01-02	0.011	--
SW01-03	0.0033U	0.0039
Seep 3	0.017	0.0038U
W3-01	--	0.0038U
Seep 1	0.28	--
W3-02	--	0.0038U
Seep 2	0.0033U	0.027
W3-04	--	0.012
W3-03	--	0.0045
SW00-02	0.012	0.0038U
Downgradient		
SW01-01	0.011	--
Sorenson	0.073	0.011
SW00-04	--	0.0038U
SW92-08	--	0.0038U

[a]All results are in mg/L. Definition of Qualifiers: R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.

Surface Water Cobalt Data Summary[a]

Surface Water Criteria:	µg/L
Utah Surface Water Standard Domestic – Dissolved	--
Utah Surface Water Standard Agricultural – Dissolved	--
Utah Surface Water Standard Aquatic Wildlife 3A – Dissolved[1]	--
Utah Surface Water Standard Aquatic Wildlife Hardness Adjusted[1,2]	--
Tier II Criteria Great Lakes Water Quality Initiative	3

[1]4-day average/1-hour average.
[2]Hardness of 400 mg/L $CaCO_3$ used. Actual hardness of Montezuma Creek exceeds 400 mg/L $CaCO_3$.

	11/1992	03/1993	04/1995	04/1995	10/1995	10/1995	02/1996	02/1996	04/1996	04/1996	06/1996	10/1996	10/1996	10/1997	10/1997	04/1998	04/1998	10/1998	10/1998	01/1999	04/1999	04/1999	07/1999	07/1999
Surface Id	Unfilt	Unfilt	Unfilt	Filt	Unfilt	Filt	Unfilt	Filt	Unfilt	Filt	Unfilt	Unfilt	Filt	Unfilt	Filt	Unfilt	Filt	Unfilt	Filt	Filt	Unfilt	Filt	Unfilt	Filt
SW92-03	--	6.0U	8.0U	8.0U	6.7U	6.0U	--	--	--	--	--	6.7U	6.0U	1.1U	1.1U	--	--	4.6J	1.0U	--	--	--	--	--
	--	--	--	--	6.7U	6.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW99-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0U	1.1U	1.0U	0.22U	0.20U
SW99-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0U	--	1.0U	--	--
SW99-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0U	--	1.0U	--	0.45J
SW92-04	10.0U	6.0U	8.0U	8.0U	6.7U	6.0U	--	--	--	--	--	6.7U	6.0U	1.1U	1.1U	--	--	1.9J	1.0U	--	--	--	--	--
SW92-05	10.0U	6.0U	8.0U	8.0U	6.7U	6.0U	--	--	7.8U	7.0U	--	6.7U	6.0U	1.1U	1.1U	--	--	1.1U	1.0U	--	--	--	--	--
	--	--	--	--	6.7U	6.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W-4	10.0U	6.0U	8.0U	8.0U	6.7U	6.0U	--	--	--	--	--	6.7U	6.0U	1.1U	1.1J	1.1U	1.0U	1.1U	1.0U	1.0U	1.1U	1.0U	--	--
	--	--	8.0U	8.0U	--	--	--	--	--	--	--	--	--	--	--	1.1U	1.0U	1.1U	1.0U	--	--	--	--	--
SW92-06	10.0U	6.0U	8.0U	8.0U	6.7U	6.0U	--	--	--	--	--	6.7U	6.0U	1.1U	1.9J	1.1U	1.0U	1.4J	1.0U	1.0U	--	1.0U	0.53J	0.20U
Sorenson	10.0U	6.0U	8.0U	8.0U	6.7U	6.0U	--	--	7.8U	7.0U	6.6U	6.7U	6.0U	1.1U	1.1U	1.1U	1.0U	1.1U	1.0U	1.0U	--	1.0U	--	0.48J
	--	--	8.0U	8.0U	--	--	--	--	7.8U	7.0U	--	--	--	--	1.1U	--	--	--	--	1.0U	--	1.0U	--	0.20U
SW92-07	10.0U	6.0U	8.0U	8.0U	6.7U	6.0U	--	--	7.8U	7.0U	6.6U	6.7U	6.0U	1.1U	1.1U	1.1U	1.0U	--	--	--	--	1.0U	--	--
SW99-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.8J	1.0U	0.28J	0.20U
SW92-08	10.0U	6.0U	8.0U	8.0U	6.7U	6.0U	--	--	--	--	--	6.7U	6.0U	1.1U	1.1U	--	--	1.1U	1.0U	--	--	1.0U	--	--
SW94-01	--	--	--	--	6.7U	6.0U	5.6U	5.0U	7.8U	7.0U	6.6U	6.7U	6.0U	--	--	--	--	--	--	--	--	1.0U	--	--
	--	--	--	--	--	--	5.6U	5.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW92-09	10.0U	6.0U	8.0U	8.0U	6.7U	6.0U	--	--	--	--	--	6.7U	6.0U	--	--	--	--	--	--	--	--	1.0U	--	--

[a]All results are in µg/L. Definition of Qualifiers: R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.

Surface Water Copper Data Summary[a]

Surface Water Criteria:	µg/L
Utah Surface Water Standard Domestic – Dissolved	--
Utah Surface Water Standard Agricultural – Dissolved	200
Utah Surface Water Standard Aquatic Wildlife 3A – Dissolved[1]	12/18
Utah Surface Water Standard Aquatic Wildlife Hardness Adjusted[1,2]	39/65

[1]4-day average/1-hour average.
[2]Hardness of 400 mg/L $CaCO_3$ used. Actual hardness of Montezuma Creek exceeds 400 mg/L $CaCO_3$.

Surface Id	11/1992 Unfilt	03/1993 Unfilt	05/1993 Unfilt	07/1993 Unfilt	10/1993 Unfilt	05/1994 Unfilt	10/1994 Unfilt	10/1994 Filt	04/1995 Unfilt	04/1995 Filt	10/1995 Unfilt	10/1995 Filt	02/1996 Unfilt	02/1996 Filt	04/1996 Unfilt	04/1996 Filt	06/1996 Unfilt	10/1996 Unfilt	10/1996 Filt	10/1997 Unfilt	10/1997 Filt	04/1998 Unfilt	04/1998 Filt	10/1998 Unfilt	10/1998 Filt	01/1999 Filt	04/1999 Unfilt	04/1999 Filt	07/1999 Unfilt	07/1999 Filt
SW92-03	--	3.0U	3.0U	5.0U	3.0U	2.0U	4.0U	4.0U	3.0U	5.6J	4.4U	4.0U	--	--	--	--	--	1.0U	1.0U	2.2U	3.3J	--	--	9.0J	2.0U	--	--	--	--	--
	--	--	--	--	3.0U	--	--	--	--	--	4.4U	4.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW99-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0U	1.4J	1.0U	0.92J	0.20J
SW99-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0J	--	1.0U	--	--
SW99-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.0J	--	4.8J	--	4.6J
SW92-04	4.0U	3.0U	3.1J	5.0U	3.0U	2.0U	4.0U	4.0U	3.0U	4.4J	4.4U	4.0U	--	--	--	--	--	1.0U	1.0U	2.2U	2.2U	--	--	7.2J	2.0U	--	--	--	--	--
SW92-05	4.0U	3.0U	17.0J	5.0U	3.0U	2.0U	4.0U	4.0U	3.0U	3.0U	4.4U	4.0U	--	--	3.3U	3.0U	--	1.0U	1.0U	2.2U	2.2U	--	--	2.3J	2.0U	--	--	--	--	--
	--	--	--	--	--	2.0U	--	--	--	--	4.4U	4.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W-4	4.0U	3.0U	5.7J	5.0U	10.7J	2.0U	4.0U	4.0U	3.0U	3.8J	4.4U	4.0U	--	--	--	--	--	1.0U	1.0U	4.0	4.2	13.2J	2.0U	2.2U	2.0U	2.0J	2.3J	1.0U	--	--
	--	--	--	--	3.0U	--	4.0U	4.0U	3.0U	3.9J	--	--	--	--	--	--	--	--	--	--	--	10.9J	2.0U	4.1J	2.0U	--	--	--	--	--
SW92-06	4.0U	3.0U	3.0U	5.0U	3.0U	4.5J	4.0U	4.0U	3.0U	3.9J	4.4U	4.0U	--	--	--	--	--	1.0U	1.0U	2.2U	2.2U	13.3J	2.0U	4.0J	2.0U	1.8J	--	1.0U	1.2J	0.44J
	--	--	--	20.0J	--	2.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sorenson	4.0U	3.0U	3.3J	5.0U	3.0U	2.0U	4.0U	4.0U	3.0U	3.0U	4.4U	4.0U	--	--	3.3U	3.0U	3.7U	1.0U	1.4J	2.2U	2.2U	17.0J	2.0U	2.7J	2.2J	1.7J	--	1.0U	--	0.40J
	--	--	--	--	--	--	--	--	3.0U	3.0U	--	--	--	--	3.3U	3.0U	--	--	--	--	2.2U	--	--	--	--	1.9J	--	1.0U	--	0.20U
SW92-07	4.0U	3.0U	3.0U	5.0U	3.0U	2.0U	4.0U	4.0U	6.3J	3.0U	4.4U	4.0U	--	--	3.3U	3.0U	3.7U	1.0U	1.3J	2.2U	2.2U	26.4J	2.0U	--	--	--	--	1.0U	--	--
SW99-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.1J	1.0U	1.3J	0.46J
SW92-08	4.0U	3.0U	3.0U	5.0U	3.0U	2.0U	4.0U	4.0U	3.0U	3.0U	4.4U	4.0U	--	--	--	--	--	1.0U	1.4J	2.4J	3.0J	--	--	2.9J	2.0U	--	--	1.0U	--	--
SW94-01	--	--	--	--	--	--	--	--	--	--	4.4U	4.0U	4.4U	4.0U	3.3U	3.0U	3.7U	2.1J	1.4J	--	--	--	--	--	--	--	--	1.0J	--	--
	--	--	--	--	--	--	--	--	--	--	--	--	4.4U	4.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW92-09	4.0U	3.0U	3.0U	5.0U	3.0U	2.0U	4.0U	4.0U	51.5	3.0U	4.4U	4.0U	--	--	--	--	--	5.3	1.5J	--	--	--	--	--	--	--	--	1.0U	--	--

[a]All results are in µg/L. Definition of Qualifiers: R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.

Surface Water Lead Data Summary[a]

Surface Water Criteria:	µg/L
Utah Surface Water Standard Domestic – Dissolved	50
Utah Surface Water Standard Agricultural – Dissolved	100
Utah Surface Water Standard Aquatic Wildlife 3A – Dissolved[1]	3.2/82
Utah Surface Water Standard Aquatic Wildlife Hardness Adjusted[1,2]	19/477

[1]4-day average/1-hour average.
[2]Hardness of 400 mg/L $CaCO_3$ used. Actual hardness of Montezuma Creek exceeds 400 mg/L $CaCO_3$.

	11/1992	03/1993	05/1993	07/1993	10/1993	05/1994	10/1994	10/1994	04/1995	04/1995	02/1996	02/1996	04/1996	04/1996	06/1996	10/1996	10/1996	10/1997	10/1997	04/1998	04/1998	10/1998	10/1998	01/1999	04/1999	04/1999	07/1999	07/1999
Surface Id	Unfilt	Unfilt	Unfilt	Unfilt	Unfilt	Unfilt	Unfilt	Filt	Unfilt	Filt	Unfilt	Filt	Unfilt	Filt	Unfilt	Unfilt	Filt	Unfilt	Filt	Unfilt	Filt	Unfilt	Filt	Filt	Unfilt	Filt	Unfilt	Filt
SW92-03	--	1.0UJ	1.0U	1.0U	24.5	1.0U	1.0U	1.0U	1.0U	1.0U	--	--	--	--	--	1.1U	1.0U	1.1U	1.1U	--	--	1.1U	1.0U	--	--	--	--	--
	--	--	--	--	1.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW99-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0U	1.1U	1.0U	0.22U	0.20U
SW99-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0U	--	1.0U	--	--
SW99-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0U	--	1.0U	--	0.20U
SW92-04	1.0U	1.0UJ	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	--	--	--	--	--	1.1U	1.0U	1.1U	1.1U	--	--	1.2J	1.0U	--	--	--	--	--
SW92-05	5.1	1.0UJ	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	--	--	0.44U	0.40U	--	1.1U	1.0U	1.1U	1.1U	--	--	1.1U	1.0U	--	--	--	--	--
	--	--	--	--	--	1.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W-4	1.0U	1.0UJ	1.0U	1.0J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	--	--	--	--	--	1.1U	1.0U	1.1U	1.1U	1.1U	1.0U	1.1U	1.0U	1.0U	1.2J	1.0U	--	--
	--	--	--	--	1.0U	--	1.0U	1.0U	1.0U	1.0U	--	--	--	--	--	--	--	--	--	1.1U	1.0U	1.1U	1.0U	--	--	--	--	--
SW92-06	1.0U	1.0UJ	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	--	--	--	--	--	150	1.0U	1.1U	1.1U	1.1U	1.0U	1.3J	1.0U	1.0U	--	1.0U	0.22U	0.20U
	--	--	--	1.0U	--	1.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sorenson	1.0U	1.0UJ	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	--	--	0.44U	0.40U	2.3J	1.1U	1.0U	1.1U	1.1U	1.1U	1.0U	1.1U	1.0U	1.0U	--	1.0U	--	0.20U
	--	--	--	--	--	--	--	--	1.0U	1.0U	--	--	0.44U	0.40U	--	--	--	--	1.1U	--	--	--	--	1.0U	--	1.0U	--	0.20U
SW92-07	1.0U	1.0UJ	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	--	--	0.44U	0.40U	2.1J	1.1U	1.0U	1.1U	1.1U	1.1U	2.0J	--	--	--	--	1.0U	--	--
SW99-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.1U	1.0U	0.22U	0.20U
SW92-08	1.0U	1.0UJ	4.0	1.5J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	--	--	--	--	--	1.1U	1.0U	1.1U	1.1U	--	--	1.1U	1.0U	--	--	1.0U	--	--
SW94-01	--	--	--	--	--	--	--	--	--	--	1.1U	1.0U	0.44U	0.40U	2.4J	1.1U	1.0U	--	--	--	--	--	--	--	--	1.0U	--	--
	--	--	--	--	--	--	--	--	--	--	1.1U	1.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW92-09	1.0U	1.0UJ	1.0U	1.0U	1.0U	1.0U	1.2J	1.0U	3.6	1.0U	--	--	--	--	--	1.1U	1.0U	--	--	--	--	--	--	--	--	1.0U	--	--

[a]All results are in µg/L. Definition of Qualifiers: R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.

Surface Water Lead-210 Data Summary[a]

Well Id	1993/03 Filt	1993/04 Filt	1993/07 Filt	1993/10 Filt	1994/05 Filt	1994/10 Filt	1995/04 Filt	1995/09 Filt	1995/10 Filt	1996/02 Filt	1996/04 Filt	1996/06 Filt	1996/10 Filt	1997/10 Filt	1998/04 Filt	1998/10 Filt	1999/01 Filt	1999/04 Unfilt	1999/04 Filt	1999/07 Unfilt	1999/07 Filt	1999/10 Unfilt	1999/10 Filt	2000/01 Unfilt	2000/04 Unfilt	2000/07 Unfilt	2000/10 Unfilt	2001/01 Unfilt	2001/04 Unfilt
Upgradient																													
SW92-01	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	--	2.0U	--	--	1.2U	1.3U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW92-02	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	--	2.0U	--	--	--	1.2U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW92-03	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	--	2.0U	--	--	--	1.2U	0.90U	--	0.27U	--	--	--	--	--	--	0.27U	--	--	--	0.28U	--	0.27U
W-5	2.0U	2.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW00-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.28U	0.26U	0.29U	--	0.27U
Background																													
10SW95-01	--	--	--	--	--	--	--	2.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11SW95-01	--	--	--	--	--	--	--	2.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12SW95-01	--	--	--	--	--	--	--	2.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13SW95-01	--	--	--	--	--	--	--	2.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14SW96-01	--	--	--	--	--	--	--	--	--	--	--	1.3U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15SW96-01	--	--	--	--	--	--	--	--	--	--	--	1.1U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16SW96-01	--	--	--	--	--	--	--	--	--	--	--	1.4U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17SW96-01	--	--	--	--	--	--	--	--	--	--	--	1.2U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW95-01	--	--	--	--	--	--	--	--	--	1.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
On-Site																													
SW99-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.28UJ	0.24U	0.24U	0.25UJ	0.24UJ	0.28U	0.28U	0.27U	--	--	--	--	--
Slade Spring	--	--	--	--	--	--	2.0U	--	2.0U	--	--	--	1.5U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW99-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.34J	--	0.23U	--	--	--	0.28U	--	--	--	--	--	--
SW99-02A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.29UJ	--	--	--	--	--	--	--	--
North Drainage	2.0U	2.0U	--	--	2.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbonate Seep	--	4.6	9.3	33.8	17.5	8.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW99-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.1J	--	0.24U	--	0.24UJ	--	--	--	--	--	--	--	--
W-2	2.0U	2.0U	--	--	22.3	11.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW92-04	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	--	2.0U	--	--	--	1.0U	0.90U	--	0.29U	--	--	--	--	--	--	--	--	--	--	--	--	--
SW92-05	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	--	2.0U	--	1.3U	--	1.0U	0.90U	--	0.29U	--	--	--	--	--	--	--	--	--	--	--	--	--
SW00-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.29U	0.26U	0.31U	0.30U	0.32
Crossgradient																													
Upper North Drainage	--	--	--	--	2.0U	2.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pehrson 2	--	--	--	--	2.0U	--	10.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pehrson 1	--	--	--	--	2.0U	2.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Downgradient																													
W-4	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	--	2.0U	--	--	--	1.3U	0.90U	0.10U	0.28U	0.28UJ	0.24U	0.26U	--	--	--	--	--	--	--	--	--	--
SW01-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.30U	0.25U
SW00-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.27U	0.27U	--	--	--
SW92-06	2.0U	2.0U	2.0U	2.0U	2.0U	3.6	2.0U	--	2.0U	--	--	--	1.3U	0.85U	0.31U	0.30U	0.27UJ	--	0.24U	0.24UJ	0.25UJ	0.28U	0.29U	0.39	--	--	--	--	--
Sorenson	2.0U	2.0U	2.0U	2.0U	2.0U	6.6	2.8	--	2.0U	--	1.4U	1.2U	1.8	0.89U	0.30U	0.29U	0.28J	--	0.25U	--	0.25UJ	--	0.26U	0.27U	0.32U	0.26U	0.30U	0.55	0.27U
SW92-07	2.0U	2.0U	2.0U	2.0U	2.0U	3.9	2.0U	--	2.3U	--	1.3U	1.1U	1.7	0.90U	0.33U	--	--	--	0.24U	--	--	--	0.27U	--	--	--	--	--	--
SW00-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.28U	0.28U	0.29U	--	0.26U
SW99-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.24U	0.24U	0.25UJ	0.27J	0.28U	0.28U	0.29	--	--	--	--	--
SW92-08	2.0U	2.0U	2.0U	2.7	2.0U	2.0U	2.0U	--	2.0U	--	--	--	1.6	0.88U	--	0.28U	--	--	0.23U	--	--	--	0.28U	--	0.27U	--	0.28U	--	0.27U
SW94-01	--	--	--	--	--	--	--	--	2.0U	0.48	1.4U	1.2U	1.6	--	--	--	--	--	0.24U	--	--	--	0.27U	--	0.28U	--	0.30U	--	0.26U
SW92-09	2.0U	2.0U	2.0U	2.6	2.0U	2.0U	2.1	--	2.0U	--	--	--	1.4	--	--	--	--	--	0.24U	--	--	--	0.29U	--	--	--	--	--	--
01SW95-01	--	--	--	--	--	--	--	2.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02SW95-01	--	--	--	--	--	--	--	2.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03SW95-01	--	--	--	--	--	--	--	2.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04SW95-01	--	--	--	--	--	--	--	2.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05SW95-01	--	--	--	--	--	--	--	2.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06SW95-01	--	--	--	--	--	--	--	2.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07SW95-01	--	--	--	--	--	--	--	2.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08SW95-01	--	--	--	--	--	--	--	2.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09SW95-01	--	--	--	--	--	--	--	2.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18SW96-01	--	--	--	--	--	--	--	--	--	--	--	1.2U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19SW96-01	--	--	--	--	--	--	--	--	--	--	--	1.3U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20SW96-01	--	--	--	--	--	--	--	--	--	--	--	1.2U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21SW96-01	--	--	--	--	--	--	--	--	--	--	--	1.2U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22SW96-01	--	--	--	--	--	--	--	--	--	--	--	1.4U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23SW96-01	--	--	--	--	--	--	--	--	--	--	--	1.3U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24SW96-01	--	--	--	--	--	--	--	--	--	--	--	1.2U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25SW96-01	--	--	--	--	--	--	--	--	--	--	--	1.2U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cabin Spring	--	--	--	--	--	--	--	--	1.4U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Montezuma Canyon	2.0U	2.0U	2.0	2.0U	2.0U	2.0U	2.0U	--	2.0U	--	--	--	1.1U	--	--	--	--	--	--	--	--	--	--	--					

[a]All results are in pCi/L. Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Surface Water Phosphate as Phosphorus Data Summary[a]

Well Id	2001/01 Filt	2001/04 Filt	2001/07 Filt
Upgradient			
SW92-03	--	10U	20.1
SW00-01	--	10U	10U
On-Site			
Seep Pond	--	--	15.7
Seep 4	--	--	10U
SW01-02	--	--	10U
SW01-03	--	--	20.1
Seep 3	--	10U	10U
Seep 1	--	17.1	10U
Seep 2	--	17.1	10U
SW00-02	30U	10U	10U
Downgradient			
SW01-01	30U	10U	20.1
Sorenson	23	10U	66.5
SW00-04	--	113	--
SW92-08	--	10U	--
SW94-01	--	10U	--

[a]All results are in µg/L. Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity.
U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Surface Water Radium-226 Data Summary[a]

Well Id	1992/11 Filt	1993/03 Filt	1993/04 Filt	1993/07 Filt	1993/10 Filt	1994/05 Filt	1994/10 Filt	1995/04 Filt	1995/09 Filt	1995/10 Filt	1996/02 Filt	1996/04 Filt	1996/06 Filt	1996/10 Filt	1997/10 Filt	1998/04 Filt	1998/10 Filt	1999/01 Filt	1999/04 Unfilt	1999/04 Filt	1999/07 Unfilt	1999/07 Filt	1999/10 Unfilt	1999/10 Filt	2000/01 Unfilt	2000/04 Unfilt	2000/07 Unfilt	2000/10 Unfilt	2001/01 Unfilt	2001/04 Unfilt
Upgradient																														
SW92-01	0.10	0.10U	0.070U	0.17U	0.58U	0.15U	0.50UJ	0.50U	--	0.50U	--	--	0.41	0.080U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW92-02	0.10	0.20	0.080U	0.080U	0.46U	0.12U	0.50U	0.50U	--	0.50U	--	--	--	0.060U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW92-03	--	0.10	0.21U	0.45U	0.80	0.13	0.50U	0.50U	--	0.50U	--	--	--	0.090U	0.47U	--	0.19U	--	--	--	--	--	--	0.61U	--	--	--	0.86U	--	0.37U
W-5	--	0.50	0.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW00-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.36U	0.86U	0.54U	--	0.38U
Background																														
10SW95-01	--	--	--	--	--	--	--	--	0.50U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11SW95-01	--	--	--	--	--	--	--	--	0.50U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12SW95-01	--	--	--	--	--	--	--	--	0.50U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13SW95-01	--	--	--	--	--	--	--	--	0.50U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	0.050U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	0.060U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	0.060U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	0.11U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW95-01	--	--	--	--	--	--	--	--	--	--	0.090U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
On-Site																														
SW99-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.12U	0.26U	0.19U	0.15U	0.13U	1.1	0.58U	0.36U	--	--	--	--	--
Slade Spring	--	--	--	--	--	--	--	0.50U	--	0.50U	--	--	--	0.060U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW99-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.16U	--	1.3	--	--	--	1.0	--	--	--	--	--	--
SW99-02A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.17U	--	--	--	--	--	--	--	--
North Drainage	2.6	1.8	0.22U	--	--	4.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbonate Seep	4.4	--	7.4	9.1	6.8	4.6	26.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW99-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.13U	--	2.7	--	0.17U	--	--	--	--	--	--	--	--
W-2	0.70	2.2	1.9	--	--	6.6	30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW92-04	0.70	0.90	0.36	0.15U	0.22	0.36	0.96	0.50U	--	0.50U	--	--	--	0.11U	0.35U	--	0.18U	--	--	--	--	--	--	--	--	--	--	--	--	--
SW92-05	0.50	0.70	0.15U	0.20U	0.28	0.16	0.90	0.50U	--	0.50U	--	0.26	--	0.28	0.32U	--	0.17U	--	--	--	--	--	--	--	--	--	--	--	--	--
SW00-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.80U	0.87U	0.57U	0.22U	0.50
Crossgradient																														
Upper North Drainage	--	--	--	--	--	0.45U	3.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pehrson 2	--	--	--	--	--	*2.4*	--	*0.94*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pehrson 1	--	--	--	--	--	0.51	0.50U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Downgradient																														
W-4	0.80	0.60	0.13U	0.11U	0.64	0.34	0.75	0.50U	--	0.50U	--	--	--	0.080U	0.31U	0.18U	0.18U	0.18U	0.81	0.17U	--	--	--	--	--	--	--	--	--	--
SW01-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.22U	0.39U
SW00-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.45U	0.90U	--	--	--
SW92-06	0.40	0.60	0.13U	0.37	0.57	0.30	0.90	0.50U	--	0.55	--	--	--	0.31	0.37U	0.19U	1.3	0.76U	--	0.66	0.19U	0.23U	0.79U	1.3	1.1U	--	--	--	--	--
Sorenson	0.60	0.50	0.40	0.33	0.63	0.71	0.83	0.60	--	0.84	--	0.50	0.71	0.39	0.33U	0.27U	1.8	0.16U	--	0.15U	--	0.57	--	0.62	0.69U	0.54U	0.79U	0.66	0.54	0.34
SW92-07	0.80	1.3	0.52	0.73	1.2	0.86	1.1J	0.88	--	0.50U	--	0.77	1.0	0.53	0.35U	0.36U	--	--	--	0.87	--	--	--	1.2	--	--	--	--	--	--
SW00-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.56U	0.91U	0.66U	--	0.52
SW99-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.75U	1.1	0.16U	0.84	0.54U	0.80	0.72U	--	--	--	--	--
SW92-08	0.50	0.70	0.57	0.56	1.2U	1.0	1.3	0.63	--	0.50U	--	--	--	0.51	0.40U	--	0.24U	--	--	1.3	--	--	--	2.6	--	0.67U	--	0.73	--	0.62
SW94-01	--	--	--	--	--	--	--	--	--	0.50U	0.71	0.77	0.90	0.60	--	--	--	--	--	0.85	--	--	--	2.7	--	0.33U	--	0.74	--	0.28
SW92-09	0.20	0.80	1.3	0.64	0.96	0.94	0.56	0.91	--	0.55	--	--	--	0.62	--	--	--	--	--	1.0	--	--	--	2.4	--	--	--	--	--	--
01SW95-01	--	--	--	--	--	--	--	--	0.50U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02SW95-01	--	--	--	--	--	--	--	--	0.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03SW95-01	--	--	--	--	--	--	--	--	0.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04SW95-01	--	--	--	--	--	--	--	--	0.50U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05SW95-01	--	--	--	--	--	--	--	--	0.50U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06SW95-01	--	--	--	--	--	--	--	--	0.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07SW95-01	--	--	--	--	--	--	--	--	0.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08SW95-01	--	--	--	--	--	--	--	--	0.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09SW95-01	--	--	--	--	--	--	--	--	0.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	0.090U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	0.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	0.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	0.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	0.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	0.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cabin Spring	--	--	--	--	--	--	--	--	--	1.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Montezuma Canyon	0.10U	0.20	0.040U	0.32	0.33	0.28	0.50U	0.50U	--	0.50U	--	--	--	0.080U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

[a]All results are in pCi/L. Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Surface Water Radium-228 Data Summary[a]

Well Id	1992/11 Filt	1993/03 Filt	1993/04 Filt	1993/07 Filt	1993/10 Filt	1994/05 Filt	1994/10 Filt	1995/04 Filt	2000/07 Unfilt	2000/10 Unfilt	2001/01 Unfilt	2001/04 Unfilt
Upgradient												
SW92-01	1.0U	2.0U	1.0U	2.0U	2.0U	3.8U	7.1U	2.9U	--	--	--	--
SW92-02	2.0U	2.0U	1.0U	1.0U	2.0U	2.6U	2.9U	3.0U	--	--	--	--
SW92-03	--	2.0U	4.0U	2.0U	2.0U	1.7U	2.3U	4.0U	--	4.3U	--	2.6U
W-5	--	2.0U	4.0U	--	--	--	--	--	--	--	--	--
SW00-01	--	--	--	--	--	--	--	--	4.6U	3.8U	--	2.6U
On-Site												
Slade Spring	--	--	--	--	--	--	--	3.7U	--	--	--	--
North Drainage	5.0U	4.0U	1.0U	--	--	3.9U	--	--	--	--	--	--
Carbonate Seep	5.0U	--	4.0U	3.0U	4.0U	5.5U	9.6U	--	--	--	--	--
W-2	2.0U	2.0U	3.0U	--	--	5.2U	10.1U	--	--	--	--	--
SW92-04	2.0U	3.0U	2.0U	2.0U	2.0U	1.8U	2.3U	2.8U	--	--	--	--
SW92-05	1.0U	3.0U	9.0U	3.0U	2.0U	2.2U	3.4U	3.3U	--	--	--	--
SW00-02	--	--	--	--	--	--	--	--	4.7U	4.0U	1.2U	2.8U
Crossgradient												
Upper North Drainage	--	--	--	--	--	2.7U	6.6U	--	--	--	--	--
Pehrson 2	--	--	--	--	--	1.8U	--	4.0U	--	--	--	--
Pehrson 1	--	--	--	--	--	1.7U	3.1U	--	--	--	--	--
Downgradient												
W-4	2.0U	2.0U	2.0U	2.0U	2.0U	1.9U	2.0U	2.5U	--	--	--	--
SW01-01	--	--	--	--	--	--	--	--	--	--	1.2U	2.7U
SW00-03	--	--	--	--	--	--	--	--	4.8U	--	--	--
SW92-06	2.0U	2.0U	3.0U	2.0U	3.0U	2.4U	3.0U	3.3U	--	--	--	--
Sorenson	3.0U	3.0U	4.0U	5.0U	2.0U	2.0U	1.4U	2.7U	4.2U	3.9U	1.2U	1.8U
SW92-07	2.0U	2.0U	2.0U	2.0U	2.0U	1.8U	2.6U	4.5U	--	--	--	--
SW00-04	--	--	--	--	--	--	--	--	4.9U	4.6U	--	1.9U
SW92-08	2.0U	3.0U	2.0U	1.0U	2.0U	3.3U	3.2U	4.2U	--	4.0U	--	1.8U
SW94-01	--	--	--	--	--	--	--	--	--	3.9U	--	1.9U
SW92-09	2.0U	2.0U	2.0U	1.0U	2.0U	1.9U	1.4U	3.6U	--	--	--	--
Montezuma Canyon	1.0U	1.0U	1.0U	2.0U	2.0U	3.2U	2.5U	4.3U	--	--	--	--

[a]All results are in pCi/L. Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Surface Water Radon-222 Data Summary[a]

Well Id	1992/11 Unfilt	1993/03 Unfilt	1993/04 Unfilt	1993/07 Unfilt	1993/10 Unfilt	1994/05 Unfilt	1994/10 Unfilt	1995/04 Unfilt	1995/09 Unfilt	1995/10 Unfilt	1996/02 Unfilt	1996/04 Unfilt	1996/06 Unfilt	1996/10 Unfilt	1997/10 Unfilt	1998/04 Unfilt	1998/10 Unfilt	1999/01 Unfilt	1999/04 Unfilt	1999/07 Unfilt	1999/10 Unfilt	2000/01 Unfilt	2000/04 Unfilt	2000/07 Unfilt	2000/10 Unfilt	2001/01 Unfilt	2001/04 Unfilt
Upgradient																											
SW92-01	36.0	80.0	129U	37.0	51.0	67.0	55.0	38.0	--	37.0	--	--	29.0	34.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SW92-02	61.0	170	108U	61.0	123	164	54.0	56.0	--	36.0	--	--	--	58.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SW92-03	--	80.0	69.0	70.0	45.0	75.0	54.0	38.0	--	33.0	--	--	--	34.0	12.0	--	21.0	--	--	--	27.0	--	--	--	45.3	--	22.0
W-5	--	1550	326	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW00-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18.5	15.5	21.6	--	21.9
Background																											
10SW95-01	--	--	--	--	--	--	--	--	38.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11SW95-01	--	--	--	--	--	--	--	--	38.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12SW95-01	--	--	--	--	--	--	--	--	38.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13SW95-01	--	--	--	--	--	--	--	--	301	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	44.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	545	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW95-01	--	--	--	--	--	--	--	--	--	--	73.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
On-Site																											
SW99-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15.0	14.0	23.0	21.0	23.4	--	--	--	--	--
Slade Spring	--	--	--	--	--	--	--	1240	--	1290	--	--	--	1210	--	--	--	--	--	--	--	--	--	--	--	--	--
SW99-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	780	939	--	930	--	--	--	--	--	--
SW99-02A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	267	--	--	--	--	--	--	--
North Drainage	436	270	71.0	--	--	63.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbonate Seep	3300	--	2520	644	3660	3190	18800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW99-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	26.0	14.0	23.0	--	--	--	--	--	--	--
W-2	589	1150	1920	--	--	4620	43700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW92-04	621	730	266	83.0	576	253	411	295	--	209	--	--	--	405	159	--	16.0	--	--	--	--	--	--	--	--	--	--
SW92-05	187	290	121	90.0	254	178	207	179	--	107	--	137	--	160	76.0	--	16.0	--	--	--	--	--	--	--	--	--	--
SW00-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18.6	15.5	352	139	21.8
Crossgradient																											
Upper North Drainage	--	--	--	--	--	46.0	66.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pehrson 2	--	--	--	--	--	337	--	713	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pehrson 1	--	--	--	--	--	384	87.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Downgradient																											
W-4	334	120	67.0	97.0	45.0	65.0	92.0	67.0	--	33.0	--	--	--	48.0	24.0	13.0	16.0	12.0	20.0	--	--	--	--	--	--	--	--
SW01-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18.0	21.7
SW00-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	24.4	22.0	--	--	--
SW92-06	63.0	110	68.0	61.0	61.0	58.0	282	61.0	--	32.0	--	--	--	296	44.0	15.0	30.0	17.0	21.0	27.0	21.0	23.6	--	--	--	--	--
Sorenson	171	150	89.0	67.0	147	126	194	145	--	136	--	115	70.0	191	96.0	53.0	49.0	156	144	86.0	121	145	121	55.5	111	118	102
SW92-07	485	430	164	59.0	1700	453	283	184	--	60.0	--	103	30.0	226	126	65.0	--	--	131	--	148	--	--	--	--	--	--
SW00-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	101	56.4	171	--	183
SW99-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	193	86.0	142	237	--	--	--	--	--
SW92-08	165	150	67.0	37.0	81.0	128	79.0	88.0	--	55.0	--	--	--	72.0	42.0	--	34.0	--	60.0	--	85.0	--	46.2	--	57.6	--	55.1
SW94-01	--	--	--	--	--	--	--	--	--	55.0	128	126	30.0	46.0	--	--	--	--	62.0	--	47.0	--	41.2	--	54.0	--	135
SW92-09	159	210	129	53.0	132	185	50.0	134	--	55.0	--	--	--	41.0	--	--	--	--	14.0	--	36.0	--	--	--	--	--	--
01SW95-01	--	--	--	--	--	--	--	--	139	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02SW95-01	--	--	--	--	--	--	--	--	167	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03SW95-01	--	--	--	--	--	--	--	--	109	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04SW95-01	--	--	--	--	--	--	--	--	43.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05SW95-01	--	--	--	--	--	--	--	--	76.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06SW95-01	--	--	--	--	--	--	--	--	39.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07SW95-01	--	--	--	--	--	--	--	--	39.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08SW95-01	--	--	--	--	--	--	--	--	39.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09SW95-01	--	--	--	--	--	--	--	--	39.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	41.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	103	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	100	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	93.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	113	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	186	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	57.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	63.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cabin Spring	--	--	--	--	--	--	--	--	--	26.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Montezuma Canyon	*55.0*	*90.0*	*83.0*	*3.0*	*45.0*	*75.0*	*80.0*	*53.0*	--	*45.0*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

[a]All results are in pCi/L. Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Surface Water Thorium-230 Data Summary[a]

Well Id	1992/11 Filt	1993/03 Filt	1993/04 Filt	1993/07 Filt	1993/10 Filt	1994/05 Filt	1994/10 Filt	1995/04 Filt	1995/09 Filt	1995/10 Filt	1996/02 Filt	1996/04 Filt	1996/06 Filt	1996/10 Filt	1997/10 Filt	1998/04 Filt	1998/10 Filt	1999/01 Filt	1999/04 Unfilt	1999/04 Filt	1999/07 Unfilt	1999/07 Filt	1999/10 Unfilt	1999/10 Filt	2000/01 Filt	2000/04 Filt	2000/07 Filt	2000/08 Filt	2000/10 Filt	2001/01 Filt	2001/04 Filt	2001/07 Filt
Upgradient																																
SW92-01	0.20	0.30U	0.090U	0.23U	0.060U	0.17U	0.30U	0.30	--	0.76U	--	--	0.060U	0.090U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW92-02	0.30U	0.30U	0.060U	0.13U	0.070U	0.15U	0.58	0.30U	--	0.76U	--	--	--	0.060U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW92-03	--	0.30U	0.14U	0.13U	0.090U	0.18U	1.2	0.30U	--	0.76U	--	--	--	0.070U	0.80U	--	1.6U	--	--	--	--	--	--	0.60U	--	--	--	--	1.7U	--	0.92U	1.5U
W-5	--	0.30U	0.10U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW00-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U	2.6U	--	1.7U	--	0.92U	1.5U
Background																																
10SW95-01	--	--	--	--	--	--	--	--	1.5U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11SW95-01	--	--	--	--	--	--	--	--	1.5U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12SW95-01	--	--	--	--	--	--	--	--	1.5U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13SW95-01	--	--	--	--	--	--	--	--	1.5U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	0.040U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	0.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	0.040U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	0.060U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW95-01	--	--	--	--	--	--	--	--	--	--	0.80U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
On-Site																																
SW99-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.80U	1.2U	1.2U	1.5U	0.60U	0.60U	0.60U	0.88U	--	--	--	--	--	--	--
Seep Pond	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U
Seep 4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U
Slade Spring	--	--	--	--	--	--	--	0.31	--	0.76U	--	--	--	0.070U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW01-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U
SW99-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.80U	--	1.2U	--	--	--	0.60U	--	--	--	--	--	--	--	--
SW99-02A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.60U	--	--	--	--	--	--	--	--	--	--
North Drainage	0.54	0.30U	0.070U	--	--	0.050U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbonate Seep	0.81	--	5.2U	8.9UJ	1.3UJ	1.3U	0.30U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW01-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U
SW99-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.80U	--	1.2U	--	0.76J	--	--	--	--	--	--	--	--	--	--
W-2	0.60	0.30U	1.7U	--	--	0.33U	0.30U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW92-04	0.11U	0.30U	0.28U	0.41U	0.59U	0.070U	0.30U	0.30U	--	0.76U	--	--	--	0.090U	--	--	1.6U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Seep 4307	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U	--	--	1.7U	--	--	--
Seep 3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.92U	1.5U
Seep 1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.92U	1.5U
Deer Draw	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0U	--	--	--	--
SW92-05	0.11U	0.36	0.24U	0.21U	0.060U	0.13U	0.30U	0.30U	--	0.76U	--	0.12U	--	0.080U	--	--	1.6U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Seep 2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.92U	1.5U
Seep 5215	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U	2.6U	--	1.7U	--	--	--
SW00-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U	2.6U	--	1.7U	0.56U	0.92U	1.5U
Crossgradient																																
Upper North Drainage	--	--	--	--	--	0.13U	0.30U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pehrson 2	--	--	--	--	--	0.070U	--	0.30U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pehrson 1	--	--	--	--	--	0.12U	0.30U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Downgradient																																
W-4	0.58	0.30U	0.24U	0.21U	0.45UJ	0.68U	0.30U	0.30U	--	0.76U	--	--	--	0.11U	0.80U	0.80U	1.6U	0.80U	1.2U	1.2U	--	--	--	--	--	--	--	--	--	--	--	--
SW01-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.56U	0.92U	1.5U
SW00-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U	2.6U	--	--	--	--	--
SW92-06	0.57	0.30U	0.12U	0.12U	0.080U	0.25U	0.30U	0.30U	--	0.76U	--	--	--	0.11U	--	0.80U	1.6U	0.80U	--	1.2U	0.67U	0.60U	0.60U	0.60U	0.88U	--	--	--	--	--	--	--
Sorenson	0.46	0.30U	0.98U	0.52UJ	0.46U	0.92U	0.30U	0.30U	--	0.76U	--	0.11U	0.050U	0.070U	--	0.80U	1.6U	0.80U	--	1.2U	--	0.60U	--	0.60U	0.88U	1.5U	2.6U	--	1.7U	0.56U	0.92U	1.5U
SW92-07	0.30U	0.30U	0.52U	0.54U	0.12U	0.25U	0.30U	0.30U	--	0.76U	--	0.15U	0.050U	0.10U	--	0.80U	--	--	--	1.2U	--	--	--	0.60U	--	--	--	--	--	--	--	--
SW00-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U	2.6U	--	1.7U	--	0.92U	--
SW99-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.2U	1.2U	0.67U	1.5U	0.60U	0.60U	0.88U	--	--	--	--	--	--	--

Surface Water Thorium-230 Data Summary[a] (continued)

Well Id	1992/11	1993/03	1993/04	1993/07	1993/10	1994/05	1994/10	1995/04	1995/09	1995/10	1996/02	1996/04	1996/06	1996/10	1997/10	1998/04	1998/10	1999/01	1999/04	1999/04	1999/07	1999/07	1999/10	1999/10	2000/01	2000/04	2000/07	2000/08	2000/10	2001/01	2001/04	2001/07
	Filt	Filt	Filt	Filt	Filt	Filt	Filt	Filt	Filt	Filt	Filt	Filt	Filt	Filt	Filt	Filt	Filt	Filt	Unfilt	Filt	Unfilt	Filt	Unfilt	Filt	Filt	Filt	Filt	Filt	Filt	Filt	Filt	Filt
SW92-08	0.30U	0.30U	0.64U	0.33U	0.30J	0.15U	0.30U	0.30U	--	0.76U	--	--	--	0.12U	0.80U	--	1.6U	--	--	1.2U	--	--	--	0.60U	--	1.5U	--	--	1.7U	--	0.92U	--
SW94-01	--	--	--	--	--	--	--	--	--	0.76U	0.80U	0.15U	0.050	0.090U	--	--	--	--	--	1.2U	--	--	--	0.60U	--	1.5U	--	--	1.7U	--	0.92U	--
SW92-09	0.30U	0.30	0.53U	0.42U	0.23U	0.20U	0.30U	0.30U	--	0.76U	--	--	--	0.080U	--	--	--	--	--	1.2U	--	--	--	0.60U	--	--	--	--	--	--	--	--
01SW95-01	--	--	--	--	--	--	--	--	1.5U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02SW95-01	--	--	--	--	--	--	--	--	1.5U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03SW95-01	--	--	--	--	--	--	--	--	1.5U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04SW95-01	--	--	--	--	--	--	--	--	1.5U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05SW95-01	--	--	--	--	--	--	--	--	1.5U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06SW95-01	--	--	--	--	--	--	--	--	1.5U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07SW95-01	--	--	--	--	--	--	--	--	1.5U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08SW95-01	--	--	--	--	--	--	--	--	1.5U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09SW95-01	--	--	--	--	--	--	--	--	1.5U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	0.050U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	0.050U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	0.040U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	0.040U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	0.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	0.040U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	0.040U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25SW96-01	--	--	--	--	--	--	--	--	--	--	--	--	0.060U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cabin Spring	--	--	--	--	--	--	--	--	--	0.76U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Montezuma Canyon	0.13	0.30U	0.090U	0.10U	0.11U	0.28U	0.77	0.30U	--	0.76U	--	--	--	0.070U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

[a]All results are in pCi/L. Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U – Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Surface Water Zinc Data Summary[a]

Surface Water Criteria:	µg/L
Utah Surface Water Standard Domestic – Dissolved	--
Utah Surface Water Standard Agricultural – Dissolved	--
Utah Surface Water Standard Aquatic Wildlife 3A – Dissolved[1]	110/120
Utah Surface Water Standard Aquatic Wildlife Hardness Adjusted[1,2]	340/379

[1]4-day average/1-hour average.
[2]Hardness of 400 mg/L $CaCO_3$ used. Actual hardness of Montezuma Creek exceeds 400 mg/L $CaCO_3$.

	11/1992	03/1993	05/1993	07/1993	10/1993	05/1994	10/1994	10/1994	04/1995	04/1995	10/1995	10/1995	02/1996	02/1996	04/1996	04/1996	06/1996	10/1996	10/1996	10/1997	10/1997	04/1998	04/1998	10/1998	10/1998	01/1999	04/1999	04/1999	07/1999	07/1999
Surface Id	Unfilt	Unfilt	Unfilt	Unfilt	Unfilt	Unfilt	Unfilt	Filt	Unfilt	Filt	Unfilt	Filt	Unfilt	Filt	Unfilt	Filt	Unfilt	Unfilt	Filt	Unfilt	Filt	Unfilt	Filt	Unfilt	Filt	Filt	Unfilt	Filt	Unfilt	Filt
SW92-03	--	21.8	10.3J	3.0U	17.0J	11.6J	11.8J	2.0U	5.2J	3.0U	3.3U	3.0U	--	--	--	--	--	16.8	6.0U	2U	2U	--	--	14.5J	4.0U	--	--	--	--	--
	--	--	--	--	18.8J	--	--	--	--	--	3.3U	3.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW99-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.0U	10.0U	9.0U	20.2U	18.2U
SW99-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.0U	--	9.0U	--	--
SW99-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.0U	--	9.0U	--	18.2U
SW92-04	9.9J	9.4J	22.3	3.0U	9.0J	2.0U	3.1J	2.0U	5.9J	19.8J	3.4J	3.0U	--	--	--	--	--	13.5	6.0U	2U	2U	--	--	31.1	4.0U	--	--	--	--	--
SW92-05	14.5J	12.6J	19.0J	3.0U	7.0U	2.0U	2.0U	2.0U	15.0J	10.2J	66.1	3.0U	--	--	3.0J	2.1J	--	8.3J	6.0U	2U	2U	--	--	12.2J	4.0U	--	--	--	--	--
	--	--	--	--	--	2.0U	--	--	--	--	5.8J	3.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W-4	57.8	21.2	18.3J	3.0U	26.9	21.6	3.3J	2.0U	16.0J	9.7J	3.3U	3.0U	--	--	--	--	--	8.1J	6.0U	2U	2U	9.2J	9.0J	10.5J	4.0U	6.0U	10.0U	9.0U	--	--
	--	--	--	--	12.8J	--	9.0J	2.0U	17.3J	11.3J	--	--	--	--	--	--	--	--	--	--	--	9.2J	6.1J	14.1J	4.0U	--	--	--	--	--
SW92-06	6.0U	23.2	13.4J	17.2J	7.0J	17.7J	3.0J	2.0U	29.9	20.7	5.9J	3.0U	--	--	--	--	--	8.8J	6.0U	18.8	2U	12.7J	6.8J	24.0	4.0U	7.0J	--	9.0U	20.2U	18.2U
	--	--	--	13.3J	--	6.2J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sorenson	6.0U	12.5J	15.5J	3.0U	24.2	9.5J	2.0U	2.0U	24.4	3.1J	3.3U	3.0U	--	--	2.9J	2.0U	8.1J	6.7U	6.0U	2U	17.2	11.4J	6.1J	19.6J	4.0U	7.5J	--	9.0U	--	18.2U
	--	--	--	--	--	--	--	--	9.5J	12.9J	--	--	--	--	3.8J	2.0U	--	--	--	--	20.6	--	--	--	--	6.0U	--	9.0U	--	18.2U
SW92-07	16.8J	6.4J	11.5J	3.0U	13.2J	5.2J	2.4J	2.0U	19.0J	11.0J	6.2J	3.0U	--	--	2.2U	2.0U	9.9J	9.9J	6.0U	2U	2U	13.0J	5.4J	--	--	--	--	9.0U	--	--
SW99-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.0U	9.0U	20.2U	18.2U
SW92-08	6.4J	4.8J	8.0J	5.6J	7.0U	9.6J	2.0U	2.0U	7.4J	4.8J	4.8J	3.0U	--	--	--	--	--	6.7U	6.0U	2U	2U	--	--	7.5J	4.0U	--	--	9.0U	--	--
SW94-01	--	--	--	--	--	--	--	--	--	--	4.0J	3.0U	9.3J	2.0U	2.2U	2.0U	12.3J	6.7U	6.0U	--	--	--	--	--	--	--	--	9.0U	--	--
	--	--	--	--	--	--	--	--	--	--	--	--	5.0J	2.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW92-09	19.7J	3.1J	4.6J	4.2J	10.7J	11.8J	2.0U	2.0U	37.7	3.0U	4.3J	3.0U	--	--	--	--	--	6.0U	6.0U	--	--	--	--	--	--	--	--	9.0U	--	--

[a]All results are in µg/L. Definition of Qualifiers: R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.

Alluvial Ground Water Ammonium as Nitrogen Data Summary[a]

Well Id	2000/01	2000/04	2000/08	2000/10	2001/07	2002/01
Downgradient						
PW-18	--	--	--	--	--	0.0033U
PW-20	--	--	--	--	--	0.0033U
PW-22	--	--	--	--	--	0.026
PW-28	--	--	--	--	--	0.024
PW99-16	--	--	--	--	--	0.021
R1-M1	--	--	--	--	0.55	--
R1-M2	0.63	0.74J	0.72	0.69	0.52	--
R1-M3	0.56	0.41	0.37	0.38	0.18	--
R1-M4	0.0077	0.025	0.032	0.028	0.036	--
R1-M5	--	--	0.0036U	0.016	0.0087	--
R1-M6	--	--	--	--	0.020 --	
R10-M1	2.5	4.7	6.3	5.2	2.5	--
R11-M1	2.3	1.9	4.2	2.9	3.1	--
R2-M1	--	--	--	--	2.2	--
R2-M10	--	--	--	--	1.5	--
R2-M2	4.0	3.1	3.1	1.2	0.46	--
R2-M3	--	--	--	--	0.54	--
R2-M4	3.1	4.9	2.8	2.4	1.1	--
R2-M5	--	--	--	--	0.41	--
R2-M6	--	--	--	--	0.35	--
R2-M7	0.31	0.58	1.2	0.80	2.1	--
R2-M8	--	--	--	--	0.74	--
R2-M9	--	--	2.5	2.1	1.2	--
R3-M1	7.2	2.9	2.9	2.4	0.92	--
R3-M2	3.9	3.8	2.5	2.2	0.73	--
R3-M3	0.71	0.72	1.7	1.3	1.3	--
R3-M4	--	--	3.4	3.1	1.1	--
R4-M1	8.6	18.2J	5.0	7.1	3.5	--
R4-M2	--	--	--	--	2.5	--
R4-M3	5.7	13.2	5.0	6.4	1.9	--
R4-M4	--	--	--	--	1.4	--
R4-M5	--	--	--	--	1.9	--
R4-M6	8.1	11.3	3.2	2.1	0.92	--
R4-M7	--	--	--	--	1.3	--
R4-M8	--	--	2.7	3.2	1.9	--
R5-M1	--	--	--	--	3.2	--
R5-M10	--	--	--	--	2.6	--
R5-M2	8.9	23.3J	5.1	6.8	3.6	--
R5-M3	--	--	--	--	2.9	--
R5-M4	6.9	14.5	5.5	5.6	1.6	--
R5-M5	--	--	--	--	1.6	--
R5-M6	--	--	--	--	2.1	--
R5-M7	5.4	7.9	5.5	2.2	1.8	--
R5-M8	--	--	--	--	1.9	--
R5-M9	--	--	3.8	3.0	1.7	--
R6-M1	--	--	--	--	2.7	--
R6-M2	7.9	18.6J	5.9	5.4	3.2	--
R6-M3	--	0.51J	0.64	--	0.16	--

Alluvial Ground Water Ammonium as Nitrogen Data Summary[a] (continued)

Well Id	2000/01	2000/04	2000/08	2000/10	2001/07	2002/01
Downgradient						
R6-M4	6.9	6.8	6.1	2.8	2.8	--
R6-M5	--	--	6.7	3.8	2.9	--
R6-M6	--	--	--	--	0.74	--
R7-M1	--	16.6J	--	--	3.1	--
R7-M2	--	4.7	--	--	0.32	--
R8-M1	--	7.3	--	--	--	--
R9-M1	2.0	6.2	--	3.7	2.2	--
T1-D	0.39	0.28	0.21	0.18	0.10	--
T1-S	0.29	0.28	0.18	0.18	0.079	--
T2-D	5.6	4.9	2.2	1.2	0.36	--
T2-S	3.1	0.89	2.0	1.5	0.12	--
T3-D	6.0	6.4	3.1	2.4	1.8	--
T3-S	3.0	2.7	1.9	1.3	0.39	--
T4-D	6.8	9.0	4.1	4.3	2.2	--
T4-S	4.2	7.7	5.6	3.7	1.3	--
T5-D	6.4	8.6J	5.6	6.1	2.5	--
T5-S	4.4	7.6	6.2	3.1	1.4	--
T6-D	0.18 10.1	6.1	2.3	2.6	--	
T6-S	--	6.4J	--	4.1	--	--
T7-D	--	8.8J	--	0.73	--	--
TW-01	--	--	--	--	0.53	--
TW-02	--	--	--	--	0.38	--
TW-03	--	--	--	--	1.6	--
TW-04	--	--	--	--	0.095	--
TW-05	--	--	--	--	0.0047U	--
TW-06	--	--	--	--	0.0047U	--
TW-07	--	--	--	--	2.9	--
TW-08	--	--	--	--	1.8	--
TW-09	--	--	--	--	0.39	--
TW-10	--	--	--	--	3.0	--
TW-11	--	--	--	--	1.9	--
TW-12	--	--	--	--	2.9	--
TW-13	--	--	--	--	0.92	--
TW-14	--	--	--	--	0.65	--

[a]All results are in mg/L. Definition of Qualifiers: R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.

Alluvial Ground Water Cobalt Data Summary[a]

Ground Water Criteria:	µg/L
Utah Ground Water Quality Standard Filtered Sample	--
Region 3 RBC in Tap Water	2200
UMTRCA MCL	--

Well Id	1992/11	1993/03	1995/04	1995/10	1996/02	1996/04	1996/07	1996/10	1997/10	1998/04	1998/10	1999/01	1999/04	1999/07
Reference – West of 191														
92-05	--	6.0R	8.0U	6.7U	--	--	--	6.7U	1.1U	--	1.0U	--	--	--
On-Site														
82-20	--	--	--	--	--	--	--	--	10.0	--	4.6J	--	--	--
GB1126T	--	--	--	--	--	--	--	--	--	--	--	1.1B	1.0U	0.47J
GB2820T	--	--	--	--	--	--	--	--	--	--	--	1.1B	1.0U	1.2J
GB3127T	--	--	--	--	--	--	--	--	--	--	--	--	1.0U	--
Downgradient														
82-07	10.0U	6.0U	8.0U	6.7U	--	--	--	6.7U	2.4J	1.0U	1.4J	1.0U	--	--
82-08	--	--	--	--	--	--	--	--	--	--	--	--	10.5J	8.4J
88-85	61.2R	6.0U	8.0U	6.7U	--	--	--	6.7U	1.1U	1.0U	1.0U	1.3J	--	0.35J
	--	--	--	6.7U	--	--	--	--	--	--	--	--	--	--
92-07	10.0U	6.0U	8.0U	7.4J	--	--	--	6.7U	--	--	1.0U	1.3J	2.5J	0.50J
	--	--	--	--	--	--	--	--	--	--	--	1.1J	--	--
92-08	10.0U	6.0U	8.0U	6.7U	--	--	--	6.7U	--	--	--	1.0U	1.0U	0.25J
	--	--	8.0U	--	--	--	--	6.7U	--	--	--	--	--	0.21J
92-09	10.0U	6.0U	8.0U	6.7U	--	7.8U	--	6.7U	1.1J	1.0U	1.0U	--	1.0U	0.2U
	--	--	8.0U	--	--	--	--	6.7U	--	1.0U	1.0U	--	1.0U	--
92-11	10.0U	6.0U	8.0U	6.7U	--	7.8U	--	6.7U	1.2J	1.0U	1.1J	1.0U	1.2J	1.8J
	10.0U	--	--	--	--	--	--	--	--	--	--	--	--	--
95-01	--	--	--	--	6.1J	7.8U	6.6U	6.7U	1.1U	1.0U	1.0U	--	1.0U	--
	--	--	--	--	--	--	6.6U	--	1.1U	--	--	--	--	--
95-03	--	--	--	--	5.6U	7.8U	6.6U	6.7U	1.1U	1.0U	1.0U	--	1.0U	0.2U
	--	--	--	--	5.6U	--	--	--	--	--	--	--	--	--
P92-02	--	--	--	6.7U	5.6U	--	6.6U	6.7U	--	--	--	--	1.0U	1.1J
P92-04	--	--	--	6.7U	6.4J	7.8U	6.6U	6.7U	--	--	1.0U	1.0U	1.0U	0.20U
P92-05	--	--	--	--	--	--	--	--	--	--	--	5.1J	1.0U	0.26J
P92-06	--	--	--	--	--	--	--	--	--	--	--	1.0U	1.0U	0.22J
P92-07	--	--	--	--	--	--	--	--	--	--	--	1.0U	1.2J	0.56J
P92-09	--	--	--	6.7U	--	--	6.6U	6.7U	--	--	--	1.0U	1.0U	0.20U
T99-01	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5J
T99-03	--	--	--	--	--	--	--	--	--	--	--	--	--	5.7J
T99-05	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2U

[a]All results are in µg/L. Definition of Qualifiers: R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.

Alluvial Ground Water Copper Data Summary[a]

Ground Water Criteria:	µg/L
Utah Ground Water Quality Standard Filtered Sample	1300
Region 3 RBC in Tap Water	1500
UMTRCA MCL	--

Well Id	1992/11	1993/03	1993/04	1993/07	1993/10	1994/05	1994/10	1995/04	1995/10	1996/02	1996/04	1996/07	1996/10	1997/10	1998/04	1998/10	1999/01	1999/04	1999/07
Reference – West of 191																			
92-05	--	3.0R	6.1R	5.0U	3.0U	2.0U	4.0U	6.8J	4.4U	--	--	--	65.2	4.3	--	2.0U	--	--	--
On-Site																			
82-20	--	--	--	--	--	--	--	--	--	--	--	--	--	2.2U	--	2.0U	--	--	--
GB1126T	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	34.5	5.6J	3.5J
GB2820T	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.9B	37.1	29.4
GB3127T	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15.3J	--
Downgradient																			
82-07	4.0U	3.0U	19.9J	5.0U	3.0U	2.0U	4.0U	3.0U	4.4U	--	--	--	1.0U	3.5	2.0U	2.5J	2.1J	--	--
82-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.9J	0.60J
88-85	197R	3.0U	4.8J	5.0U	4.6J	3.4J	11.1J	3.0U	4.4U	--	--	--	1.0U	3.7	2.0U	2.0U	3.8J	--	2.1J
	--	--	--	28.5	--	--	--	--	4.4U	--	--	--	--	--	--	--	--	--	--
92-07	4.0U	3.0U	24.6J	13.4J	3.0U	2.0U	4.0U	3.0U	4.4U	--	--	--	1.0U	--	--	2.3J	3.4J	4.5J	2.1J
	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.4J	--	--
92-08	4.0U	3.0U	3.0U	5.0U	3.0U	2.0U	4.0U	3.0U	4.4U	--	--	--	1.0U	--	--	--	2.0J	1.6J	0.84J
	--	--	--	--	--	--	--	3.0U	--	--	--	--	1.0U	--	--	--	--	--	0.94J
92-09	4.0U	3.0U	3.0U	5.0U	3.0U	2.0U	4.0U	3.0U	4.4U	--	3.3U	--	2.9J	4.3	2.0U	2.0U	--	1.2J	0.91J
	--	--	--	--	3.0U	--	4.0U	3.0U	--	--	--	--	2.8J	--	2.0U	2.0U	--	1.3J	--
92-11	4.0U	3.0U	3.0U	--	3.0U	2.0U	4.0U	3.0U	4.4U	--	3.3U	--	4.6	3.4	2.0U	2.6J	3.4J	3.1J	1.7J
	4.0U	--	3.0U	--	--	2.0U	--	--	--	--	--	--	--	--	--	--	--	--	--
95-01	--	--	--	--	--	--	--	--	--	4.4U	3.3U	3.7U	1.0U	4.2	2.0U	2.0U	--	1.0U	--
	--	--	--	--	--	--	--	--	--	--	--	3.7U	--	3.5	--	--	--	--	--
95-03	--	--	--	--	--	--	--	--	--	4.4U	3.6J	3.7U	1.0U	5.6	2.0U	2.0U	--	1.0J	0.63J
	--	--	--	--	--	--	--	--	--	4.4U	--	--	--	--	--	--	--	--	--
P92-02	--	--	--	--	--	--	--	--	4.4U	4.4U	--	3.7U	1.0U	--	--	--	--	1.8J	1.3J
P92-04	--	--	--	--	--	--	--	--	4.4U	4.4U	3.3U	3.7U	1.0U	--	--	2.0U	2.1J	1.7J	0.84J
P92-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.6J	2.6J	3.1J
P92-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.9J	3.9J	1.6J
P92-07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.8J	3.2J	1.7J
P92-09	--	--	--	--	--	--	--	--	4.4U	--	--	3.7U	1.0U	--	--	--	2.9J	2.5J	0.85J
T99-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.0J
T99-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.0J
T99-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.82J

[a]All results are in µg/L. Definition of Qualifiers: R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.

Alluvial Ground Water Lead Data Summary[a]

Ground Water Criteria:	µg/L
Utah Ground Water Quality Standard Filtered Sample	15
Region 3 RBC in Tap Water	15 [1]
UMTRCA MCL	50

[1]from National EPA Action Level

Well Id	1992/11	1993/03	1993/04	1993/07	1993/10	1994/05	1994/10	1995/04	1996/02	1996/04	1996/07	1996/10	1997/10	1998/04	1998/10	1999/01	1999/04	1999/07
Reference - West of 191																		
92-05	--	6.2R	6.1R	1.6R	1.0U	1.0U	3.1	1.4J	--	--	--	9.4R	1.1U	--	1.0U	--	--	--
On-Site																		
82-20	--	--	--	--	--	--	--	--	--	--	--	--	1.1U	--	1.0U	--	--	--
GB1126T	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.2	1.0U	0.20U
GB2820T	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0U	5.0	2.5J
GB3127T	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.4J	--
Downgradient																		
82-07	1.0U	2.1J	1.6J	1.0U	1.0U	1.0U	1.0U	1.0U	--	--	--	1.1U	1.1U	1.0U	1.0U	1.0U	--	--
82-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0U	0.20U
88-85	89.1R	1.0UJ	1.7J	1.0U	1.0U	1.0U	1.3J	1.0U	--	--	--	1.1U	1.1U	1.0U	1.0U	1.0U	--	0.20U
	--	--	--	1.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
92-07	1.0U	2.2J	1.2J	1.0U	1.0U	1.0U	1.0U	1.0U	--	--	--	1.1UJ--	--	1.0U	1.0U	1.0U	0.20U	
	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0U	--	--
92-08	1.0U	1.0UJ	1.0U	1.6J	1.0U	1.0U	1.0U	1.0U	--	--	--	1.1U	--	--	--	1.0U	1.0U	0.20U
	--	--	--	--	--	--	--	1.0U	--	--	--	1.1U	--	--	--	--	--	0.20U
92-09	1.0U	24.8J	1.2J	2.0J	1.0U	1.0U	1.0U	1.0U	--	0.44U	--	1.1U	1.1U	1.0U	1.0U	--	1.0U	0.20U
	--	--	--	--	1.0U	--	1.0U	1.0U	--	--	--	1.1U	--	1.0U	1.0U	--	1.0U	--
92-11	1.0U	1.0UJ	1.0U	--	1.0U	1.0U	1.0U	1.0U	--	0.44U	--	1.1U	1.1U	1.0U	1.0U	1.0U	1.0U	0.20U
	1.0U	--	1.0U	--	--	1.0U	--	--	--	--	--	--	--	--	--	--	--	--
95-01	--	--	--	--	--	--	--	--	1.1U	0.44U	5.8	1.1UJ	1.1U	1.0U	1.0U	--	1.0U	--
	--	--	--	--	--	--	--	--	--	--	1.2J	--	1.1U	--	--	--	--	--
95-03	--	--	--	--	--	--	--	--	1.1U	0.44U	1.3J	1.1UJ	1.1U	1.0U	1.0U	--	1.0U	0.59J
	--	--	--	--	--	--	--	--	1.1U	--	--	--	--	--	--	--	--	--
P92-02	--	--	--	--	--	--	--	--	1.1U	--	1.4J	1.1UJ	--	--	--	--	1.0U	0.20U
P92-04	--	--	--	--	--	--	--	--	6.6	0.44U	0.66J	1.1UJ	--	--	1.0U	1.0U	1.0U	0.20U
P92-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0U	1.0U	0.20U
P92-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0U	1.0U	0.20U
P92-07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0U	1.0U	0.20U
P92-09	--	--	--	--	--	--	--	--	--	--	1.2J	1.2J	--	--	--	1.0U	1.0U	0.20U
T99-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.23J
T99-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.23J
T99-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.75J

[a]All results are in µg/L. Definition of Qualifiers: R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.

Alluvial Ground Water Lead-210 Data Summary[a]

Well Id	1993/03	1993/04	1993/07	1993/10	1994/05	1994/10	1995/04	1995/10	1996/02	1996/04	1996/07	1996/10	1997/10	1998/04	1998/10	1999/01	1999/04	1999/07	1999/10	2000/01	2000/04	2000/07	2000/10	2001/01	2001/04
Upgradient																									
92-01	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	--	--	--	1.1U	--	--	--	--	--	--	--	--	--	--	--	--	--
92-03	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	--	--	--	1.1U	--	--	--	--	--	--	--	--	--	--	--	--	--
92-05	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	--	--	--	1.1U	0.93U	--	0.34	--	--	--	0.28U	--	--	--	0.30U	--	0.28U
MW00-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.25U	0.33U	--	0.28U
MW00-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.26U	0.32U	--	0.27U
On-Site																									
31SW91-03	--	--	--	5.6	3.2	6.1	15.3	2.2U	--	--	--	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--
31SW91-14	8.4	2.8	21.4	28.4	2.0U	6.0	6.4	0.58	--	--	--	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--
31SW91-23	2.0U	20.4	11.2	14.3	2.0	7.5	12.1	4.9	--	--	--	3.6U	--	--	--	--	--	--	--	--	--	--	--	--	--
31SW91-35	--	--	--	--	--	--	--	--	--	3.4	--	2.1	--	--	--	--	--	--	--	--	--	--	--	--	--
31SW91-50	--	--	--	--	--	--	--	--	--	45.1	--	42.8	--	--	--	--	--	--	--	--	--	--	--	--	--
31SW91-55	--	--	--	--	--	--	--	--	--	1.4U	--	1.3U	--	--	--	--	--	--	--	--	--	--	--	--	--
36SE91-58	--	--	--	--	--	--	--	--	--	1.4U	--	1.2U	--	--	--	--	--	--	--	--	--	--	--	--	--
36SE91-61	--	--	--	--	--	--	--	--	--	--	--	11.7	--	--	--	--	--	--	--	--	--	--	--	--	--
36SE93-201-2	--	--	--	--	79.0	91.0	17.0	6.0	--	17.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
82-20	--	--	--	--	--	--	--	--	--	--	--	--	0.85U	--	0.27U	--	--	--	0.26U	--	--	--	0.30U	--	--
82-30B	2.0U	10.2	4.3	8.2	2.0U	6.8	5.8	1.7	--	2.1U	--	45.7	--	--	--	--	--	--	--	--	--	--	--	--	--
82-31B-E	--	--	--	2.0U	2.0U	2.0U	2.0U	1.4U	--	--	--	2.4	--	--	--	--	--	--	--	--	--	--	--	--	--
82-31B-W	2.0U	2.0U	2.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
82-36A	13.4	6.0	2.0U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
82-40A	6.3	2.0U	28.4	34.9	31.6	49.7	10.3	13.1	--	--	--	29.0	--	--	--	--	--	--	--	--	--	--	--	--	--
82-42	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	1.3U	--	--	--	2.2	--	--	--	--	--	--	--	--	--	--	--	--	--
T00-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.26U	0.28U	--	0.35
T00-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.26U
Downgradient																									
82-07	2.0U	9.0	8.8	4.1	3.6	2.0U	2.0U	1.3U	--	--	--	2.2	1.0U	0.35U	0.34	0.40J	--	--	--	--	0.35U	0.27U	--	--	--
82-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.57	0.25UJ	0.27U	0.47	0.28U	0.27U	0.34U	--	0.28U
88-85	2.0U	18.3	5.2	2.7	2.0U	2.0U	4.6	2.6U	--	--	--	3.2U	1.2	0.66	0.30	0.50J	--	0.55	0.53	0.62	0.55	0.27U	0.39	0.32	0.46
92-07	2.0U	15.8	6.9	21.0	10.6	3.6	5.2	4.0	--	--	--	3.3	--	--	0.28	0.43J	0.45	0.84	0.26U	0.46	0.28U	0.28U	0.28U	0.28U	0.28U
92-08	2.0U	3.3	4.7	3.2	6.9	4.3	2.0U	3.7	--	--	--	1.2U	--	--	--	0.42J	0.42	0.68J	0.30	0.43	0.35U	0.27U	0.36U	0.29U	0.27U
92-09	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	--	1.3U	--	1.7	0.90U	0.30U	0.29U	--	0.24U	--	0.26U	--	0.28U	--	0.27U	--	0.27U
92-11	11.9	18.4	--	3.9	12.9	36.8	9.7	2.0U	--	1.9U	--	5.9	0.94U	0.20	0.41	0.45J	0.40	0.48J	0.28U	0.28	0.26U	0.25U	0.28U	0.30U	0.29U
95-01	--	--	--	--	--	--	--	--	0.63	1.2U	1.2U	1.1U	0.80U	0.30U	0.35	--	0.31	--	0.27U	--	0.43	--	0.70	--	0.54
95-03	--	--	--	--	--	--	--	--	1.7	1.2U	1.2U	1.1U	0.85U	0.31U	0.27U	--	0.24U	--	0.27U	--	0.27U	--	0.26U	--	0.26U
MW00-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.26U	0.34U	0.29U	0.28U
MW00-07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.26U	--	--	--
P92-02	--	--	--	--	--	--	--	1.3U	0.43	--	1.2U	1.2U	--	--	--	--	0.25U	--	0.28U	--	0.28U	--	0.28U	--	0.27U
P92-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.28U	--	0.27U	--	0.28U	--	0.28U
P92-04	--	--	--	--	--	--	--	1.4U	0.36	1.2U	1.2U	1.1U	--	--	0.27U	0.28UJ	0.32	0.24UJ	0.29U	0.38	0.32U	0.25U	0.29U	--	0.27U
P92-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.26U	0.25UJ	0.29U	--	0.34U	0.26U	--	--	--
P92-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.5J	0.65	0.67J	0.46	0.67	0.50U	0.26U	0.33U	--	0.29U
P92-09	--	--	--	--	--	--	--	1.4U	--	--	1.3U	--	--	--	--	0.31J	0.25U	0.26UJ	0.28U	0.43	0.31U	0.27U	0.29U	--	0.27U
PW-16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.29U
PW-17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.28U
PW-18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.29U
PW-20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.42
PW-22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.28U
PW-23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.28U
PW-28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.29U	0.28U
PW99-16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.30U	0.27U
T99-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.31	0.28U	0.26U	--	--	--
T99-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.28U	--	--	--	0.26U
T99-11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.27U	0.27U	0.26U	--	--	--

[a]All results are in pCi/L. Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Alluvial Ground Water Phosphate as Phosphorus Data Summary[a]

Well Id	2001/01	2001/04	2001/07
Upgradient			
92-05	--	14.8	10U
MW00-01	--	10U	10U
MW00-02	--	10U	10U
On-Site			
MW00-04	30U	--	--
T00-01	--	28.1	46.6
T00-04	--	10U	10.5U
T01-01	--	--	59.9
T01-02	--	--	26.7
T01-04	--	--	20.1
T01-07	--	--	10U
T01-08	--	--	10.5U
T01-12	--	--	10U
T01-19	--	--	10U
T01-20	--	--	10U
T01-23	--	--	13.5
T01-24	--	--	10U
T01-26	--	--	10U
Downgradient			
82-08	--	10U	10U
88-85	10	10U	19.8
92-07	56	30.8	26.3
92-08	10	10U	10U
92-09	--	14.8	--
92-11	37	21.4	10U
95-01	--	10U	--
95-03	--	10U	--
MW00-06	63	24.3	10U
P92-02	--	10U	--
P92-03	--	10U	--
P92-04	--	10U	--
P92-06	--	10U	10U
P92-09	--	10U	--
PW-10	--	--	19.8
PW-16	--	10U	10U
PW-17	56	24.3	26.3
PW-18	--	10U	15.7
PW-20	--	10U	10.5U
PW-22	--	21.4	10.5U
PW-23	--	24.3	10U
PW-28	17	10U	10U
PW99-16	23	10U	10U
T99-05	--	54.8	--

[a]All results are in µg/L. Definition of Qualifiers: R – Data unusable. J -- Estimated quantity.
U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Alluvial Ground Water Radium-226 Data Summary[a]

Well Id	1992/11	1993/03	1993/04	1993/07	1993/10	1993/11	1994/05	1994/10	1995/04	1995/10	1996/02	1996/04	1996/07	1996/10	1997/10	1998/04	1998/10	1999/01	1999/04	1999/07	1999/09	1999/10	2000/01	2000/04	2000/07	2000/08	2000/10	2001/01	2001/04	2001/07
Upgradient																														
92-01	0.10	0.10	0.070U	0.10U	0.55U	--	0.21U	0.50U	0.50U	0.50U	--	--	--	0.10U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
92-03	0.40	0.40	0.22	0.050U	0.29U	--	0.10U	0.50U	0.50U	0.50U	--	--	--	0.13U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
92-05	--	0.40	0.070U	0.56	0.23	--	0.060U	0.50UJ	0.50U	0.50U	--	--	--	0.090U	0.34U	--	0.66	--	--	--	--	0.18U	--	--	--	--	0.81U	--	0.87U	--
MW00-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.80U	--	0.68U	--	0.78U	--
MW00-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.83U	--	0.73U	--	0.80U	--
On-Site																														
31SW91-03	--	--	--	--	0.35	--	0.20	0.50U	0.50U	0.50U	--	--	--	0.050U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31SW91-14	0.20	0.30U	0.17U	0.040U	0.33	--	0.10U	0.50U	0.50U	0.50U	--	--	--	0.11U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31SW91-23	0.20	0.10	0.74U	0.18	0.42U	--	0.28U	0.50U	0.50U	0.50U	--	--	--	0.11U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31SW91-35	--	--	--	--	--	--	--	--	--	--	--	6.5	--	3.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31SW91-50	--	--	--	--	--	--	--	--	--	--	--	26.5	--	36.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31SW91-55	--	--	--	--	--	--	--	--	--	--	--	0.22	--	0.10U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31SW93-204-2	--	--	--	--	--	1.9U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
36SE91-58	--	--	--	--	--	--	--	--	--	--	--	0.40	--	0.12U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
36SE91-61	--	--	--	--	--	--	--	--	--	--	--	--	--	0.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
36SE93-201-2	--	--	--	--	--	1.5U	0.84	0.50U	3.7	2.2	--	1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
82-20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.43U	--	0.20U	--	--	--	--	0.40U	--	--	--	--	0.66U	--	--	--
82-30B	0.30	0.30	0.51	0.19	0.75	--	0.25	0.50U	0.76	0.50U	--	0.44	--	0.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
82-31B-E	--	--	--	--	0.41U	--	0.040U	0.50U	0.50UJ	0.50U	--	--	--	0.15U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
82-31B-W	0.10U	0.20	0.30	0.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
82-36A	10.4	10.8	7.3	8.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
82-40A	7.0	5.7	0.20U	12.0	16.1	--	9.2	11.3	12.0	14.8	--	--	--	9.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
82-42	2.9	1.6	0.79	0.38	0.29	--	0.22	0.50U	0.50U	0.50U	--	--	--	0.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T00-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.83U	--	0.85U	--	0.71U	--
T00-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.45U	--
Downgradient																														
82-07	0.10	0.10	0.28U	0.33	0.43U	--	0.050U	0.50U	0.50U	0.50U	--	--	--	0.13U	0.37U	0.18U	0.19U	0.16U	--	--	--	--	--	0.50U	0.88U	--	--	--	--	--
82-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.9	5.4	--	2.7	3.2	1.9	0.87U	--	1.4	--	1.1	--
88-85	0.10U	0.10	0.070U	0.19	1.3U	--	0.10	0.50U	0.50U	0.50U	--	--	--	0.19U	0.43U	0.19U	0.15U	0.16U	--	0.33U	--	0.61U	0.32U	0.40U	0.79U	--	0.55U	0.20U	0.44U	--
92-07	0.10	0.10	0.060U	0.080U	0.20U	--	0.040U	0.50U	0.50U	0.50U	--	--	--	0.12U	--	--	0.17U	0.17U	0.72	0.27U	--	0.44U	0.21U	0.32U	0.84U	--	0.57U	0.22U	0.46U	--
92-08	0.10	0.10	0.41U	0.14	0.090U	--	0.070U	0.50U	0.50U	0.50U	--	--	--	0.11U	--	--	--	0.23U	0.20U	0.20U	--	0.56U	0.24U	0.27U	0.78U	--	0.65U	0.22U	0.50U	--
92-09	0.10	0.40U	0.060U	0.12U	0.030U	--	0.020U	0.50UJ	0.50U	0.50U	--	0.12	--	0.090U	0.26U	0.39U	0.22U	--	0.20U	--	--	0.99U	--	0.43U	--	--	0.84U	--	0.76U	--
92-11	0.10	0.10U	0.090U	--	0.20U	--	0.060U	0.50U	0.50U	0.50U	--	0.11	--	0.13U	0.23U	0.25U	0.23U	0.19U	0.15U	0.23U	--	0.50U	0.75U	0.51U	0.83U	--	0.83U	0.21U	0.74U	--
95-01	--	--	--	--	--	--	--	--	--	--	2.8	3.2	2.2	2.1	1.9	1.8	1.9	--	1.6	--	--	1.7	--	1.7	--	--	1.4	--	1.5	--
95-03	--	--	--	--	--	--	--	--	--	--	1.9	2.4	2.6	2.0	3.2	2.0	2.3	--	0.24U	--	--	2.3	--	1.8	--	--	1.8	--	1.6	--
MW00-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.78U	--	0.69U	0.22U	0.46U	--
MW00-07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.79U	--	--	--	--	--
P92-02	--	--	--	--	--	--	--	--	--	0.50U	0.35	--	0.17	0.16U	--	--	--	--	0.16U	--	--	0.56U	--	0.33U	--	--	0.85U	--	0.85U	--
P92-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.56U	--	0.47U	--	--	0.84U	--	0.68U	--
P92-04	--	--	--	--	--	--	--	--	--	0.50U	0.12	0.85	0.21	0.090U	--	--	0.23U	0.14U	0.16U	0.12U	--	0.27U	0.34U	0.41U	0.82U	--	0.88U	--	0.45U	--
P92-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.73	0.26U	--	0.31U	--	0.31U	0.82U	--	--	--	--	--
P92-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.16U	0.12U	0.18U	--	0.51U	0.33U	0.37U	0.81U	--	0.68U	--	0.81U	--
P92-07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.19U	--	--	--	--	0.67U	0.77U	--	--	--	--	--
P92-09	--	--	--	--	--	--	--	--	--	0.53	--	--	0.24	--	--	--	--	0.25U	0.14U	0.17U	--	0.32U	0.42U	0.50U	0.83U	--	0.85U	--	0.79U	--
PW-16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.43U	--
PW-17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.45U	--
PW-18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.47U	--
PW-20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.44U	--
PW-22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.78U	--
PW-23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.47U	--
PW-28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.21U	0.74U	--
PW99-16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.22U	0.49U	--

Alluvial Ground Water Radium-226 Data Summary[a] (continued)

Well Id	1992/11	1993/03	1993/04	1993/07	1993/10	1993/11	1994/05	1994/10	1995/04	1995/10	1996/02	1996/04	1996/07	1996/10	1997/10	1998/04	1998/10	1999/01	1999/04	1999/07	1999/09	1999/10	2000/01	2000/04	2000/07	2000/08	2000/10	2001/01	2001/04	2001/07
R1-M1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.53U	--	--	--	0.43U
R1-M2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.35	--	--	--	--	--	--	--	--	--
R1-M5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.25	--	--	--	--	0.36U	--	--	--	0.33U
R5-M2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.15	--	--	--	--	0.34U	--	--	--	--
R5-M9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.48	--	--	--	--	0.32U	--	--	--	0.56U
T7-D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.30U
T99-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.78U	0.46U	0.87U	--	--	--	--	--
T99-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.64U	--	--	--	--	0.77U	--
T99-11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.77U	0.47U	0.86U	--	--	--	--	--

[a]All results are in pCi/L. Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Alluvial Ground Water Radium-228 Data Summary[a]

Well Id	1992/11	1993/03	1993/04	1993/07	1993/10	1993/11	1994/05	1994/10	1995/04	2000/07	2000/10	2001/01	2001/04
Upgradient													
92-01	1.0U	1.0U	1.0U	2.0U	2.0U	--	3.8U	4.7U	4.4U	--	--	--	--
92-03	2.0U	2.0U	1.0U	2.0U	3.0U	--	3.3U	2.9U	4.2U	--	--	--	--
92-05	--	2.0U	1.0U	1.0U	2.0U	--	2.0U	4.4U	3.1U	--	4.2U	--	5.9U
MW00-01	--	--	--	--	--	--	--	--	--	4.2U	3.6U	--	5.3U
MW00-02	--	--	--	--	--	--	--	--	--	4.1U	3.8U	--	5.4U
On-Site													
31SW91-03	--	--	--	--	3.0U	--	2.1U	2.4U	2.6U	--	--	--	--
31SW91-14	2.0U	2.0U	3.0U	2.0U	3.0U	--	1.9U	2.3U	3.0U	--	--	--	--
31SW91-23	2.0U	2.0U	4.0U	2.0U	3.0U	--	5.1U	3.5U	2.6U	--	--	--	--
31SW93-204-2	--	--	--	--	--	2.0U	--	--	--	--	--	--	--
36SE93-201-2	--	--	--	--	--	4.0U	3.5U	5.1U	6.9U	--	--	--	--
82-20	--	--	--	--	--	--	--	--	--	--	3.5U	--	--
82-30B	2.0U	2.0U	1.0U	1.0U	3.0U	--	2.0U	3.1U	3.5U	--	--	--	--
82-31B-E	--	--	--	--	3.0U	--	3.0U	2.4U	3.1U	--	--	--	--
82-31B-W	2.0U	2.0U	3.0U	2.0U	--	--	--	--	--	--	--	--	--
82-36A	4.0U	7.0U	5.0U	3.0U	--	--	--	--	--	--	--	--	--
82-40A	3.0U	3.0U	3.0U	4.0U	5.0U	--	5.9U	6.6U	6.0U	--	--	--	--
82-42	2.0U	2.0U	3.0U	2.0U	2.0U	--	1.5U	2.0U	2.8U	--	--	--	--
T00-01	--	--	--	--	--	--	--	--	--	4.3U	4.3U	--	4.8U
T00-04	--	--	--	--	--	--	--	--	--	--	--	--	3.2U
Downgradient													
82-07	2.0U	2.0U	3.0U	2.0U	2.0U	--	2.6U	1.7U	2.5U	4.7U	--	--	--
82-08	--	--	--	--	--	--	--	--	--	4.6U	3.6U	--	3.4U
88-85	2.0U	1.0U	4.0U	2.0U	2.0U	--	1.5U	2.4U	2.9U	4.1U	3.8U	1.1U	3.4U
92-07	1.0U	2.0U	3.0U	2.0U	3.0U	--	1.6U	1.7U	2.8U	4.4U	4.0U	1.2U	3.5U
92-08	2.0U	2.0U	7.0U	2.0U	2.0U	--	1.5U	1.4U	3.0U	4.1U	3.5U	1.1U	3.7U
92-09	2.0U	2.0U	1.0U	2.0U	3.0U	--	1.8U	3.2U	2.2U	--	4.2U	--	5.2U
92-11	2.0U	2.0U	4.0U	--	2.0U	--	1.6U	2.3U	3.5U	4.3U	4.3U	1.2U	5.0U
95-01	--	--	--	--	--	--	--	--	--	--	4.3U	--	5.4U
95-03	--	--	--	--	--	--	--	--	--	--	3.8U	--	5.2U
MW00-06	--	--	--	--	--	--	--	--	--	4.1U	3.5U	1.2U	3.3U
MW00-07	--	--	--	--	--	--	--	--	--	4.2U	--	--	--
P92-02	--	--	--	--	--	--	--	--	--	--	4.3U	--	5.6U
P92-03	--	--	--	--	--	--	--	--	--	--	4.3U	--	4.6U
P92-04	--	--	--	--	--	--	--	--	--	4.2U	4.3U	--	3.4U
P92-05	--	--	--	--	--	--	--	--	--	4.3U	--	--	--
P92-06	--	--	--	--	--	--	--	--	--	4.2U	3.6U	--	5.5U
P92-07	--	--	--	--	--	--	--	--	--	4.1U	--	--	--
P92-09	--	--	--	--	--	--	--	--	--	4.4U	4.3U	--	5.4U
PW-16	--	--	--	--	--	--	--	--	--	--	--	--	3.2U
PW-17	--	--	--	--	--	--	--	--	--	--	--	--	3.4U
PW-18	--	--	--	--	--	--	--	--	--	--	--	--	3.5U
PW-20	--	--	--	--	--	--	--	--	--	--	--	--	3.3U
PW-22	--	--	--	--	--	--	--	--	--	--	--	--	5.3U
PW-23	--	--	--	--	--	--	--	--	--	--	--	--	3.5U
PW-28	--	--	--	--	--	--	--	--	--	--	--	1.2U	5.0U
PW99-16	--	--	--	--	--	--	--	--	--	--	--	1.2U	3.6U
T99-01	--	--	--	--	--	--	--	--	--	4.6U	--	--	--
T99-05	--	--	--	--	--	--	--	--	--	--	--	--	5.2U
T99-11	--	--	--	--	--	--	--	--	--	4.3U	--	--	--

[a]All results are in pCi/L. Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Alluvial Ground Water Radon-222 Data Summary[a]

Well Id	1992/11	1993/03	1993/04	1993/07	1993/10	1994/05	1994/10	1995/04	1995/10	1996/02	1996/04	1996/07	1996/10	1997/10	1998/04	1998/10	1999/01	1999/04	1999/07	1999/10	2000/01	2000/04	2000/07	2000/10	2001/01	2001/04
Upgradient																										
92-01	595	790	940	1070	620	792	733	847	853	--	--	--	688	--	--	--	--	--	--	--	--	--	--	--	--	--
92-03	267	930	959	580	284	743	1050	1080	603	--	--	--	772	--	--	--	--	--	--	--	--	--	--	--	--	--
92-05	203	370	864	1270	549	789	572	844	577	--	--	--	327	430	--	360	--	--	--	468	--	--	--	432	--	732
MW00-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	845	812	--	1020
MW00-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1430	1130	--	1030
On-Site																										
31SW91-03	--	--	--	--	825	873	902	864	1010	--	--	--	917	--	--	--	--	--	--	--	--	--	--	--	--	--
31SW91-14	1260	1090	1070	1210	1080	924	1200	1170	1100	--	--	--	1260	--	--	--	--	--	--	--	--	--	--	--	--	--
31SW91-23	99.0	180	184	202	183	164	267	364	318	--	--	--	369	--	--	--	--	--	--	--	--	--	--	--	--	--
31SW91-35	--	--	--	--	--	--	--	--	--	--	5630	--	1980	--	--	--	--	--	--	--	--	--	--	--	--	--
31SW91-50	--	--	--	--	--	--	--	--	--	--	182000	--	140000	--	--	--	--	--	--	--	--	--	--	--	--	--
31SW91-55	--	--	--	--	--	--	--	--	--	--	868	--	1060	--	--	--	--	--	--	--	--	--	--	--	--	--
36SE91-58	--	--	--	--	--	--	--	--	--	--	830	--	1070	--	--	--	--	--	--	--	--	--	--	--	--	--
36SE91-61	--	--	--	--	--	--	--	--	--	--	--	--	934	--	--	--	--	--	--	--	--	--	--	--	--	--
36SE93-201-2	--	--	--	--	--	1040	183	1270	876	--	1080	--	278	--	--	--	--	--	--	--	--	--	--	--	--	--
82-20	--	--	--	--	--	--	--	--	--	--	--	--	--	416	--	535	--	--	--	560	--	--	--	766	--	--
82-30B	4030	3080	2910	3440	3380	2670	3790	2960	3550	--	2330	--	3660	--	--	--	--	--	--	--	--	--	--	--	--	--
82-31B-E	--	--	--	--	1190	639	1160	1150	1390	--	--	--	1270	--	--	--	--	--	--	--	--	--	--	--	--	--
82-31B-W	1150	1140	1030	1010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
82-36A	5670	7820	9280	13100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
82-40A	10600	28700	18900	28200	59700	176	78500	47000	54200	--	--	--	36000	--	--	--	--	--	--	--	--	--	--	--	--	--
82-42	973	1720	1320	1340	1080	1280	1510	1500	1560	--	--	--	1420	--	--	--	--	--	--	--	--	--	--	--	--	--
T00-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	645	759	--	821
T00-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	410J
Downgradient																										**Gradient**
82-07	532	1040	1010	967	557	842	1020	819	749	--	--	--	622	732	619J	1010	1030	--	--	--	--	442	788	--	--	--
82-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	343	805J	947J	440	813	1040	1480	--	570J
88-85	730	4580	10600	7810	2380	2960	2030	5940	2130	--	--	--	1340	1610	2100J	1020	894	--	1510J	1580	1600	1940	1860	2030	1970	2050J
92-07	1050	1170	1190	2110	601	1140	1060	1100	1090	--	--	--	934	--	--	783	551	542	989J	838	827	751	763	1050	834	950J
92-08	720	960	1120	1330	1230	1140	1190	1160	1360	--	--	--	1170	--	--	--	984	1140	1120J	977	678	387	499	1080	900	962J
92-09	196	490	614	861	456	425	358	525	496	--	314	--	372	473	415J	492	--	514	--	498	--	231	--	395	--	403
92-11	856	1070	978	--	947	1150	1030	933	829	--	747	--	962	975	907J	1050	1030	778	672J	992J	889	560	1050	957	757	946
95-01	--	--	--	--	--	--	--	--	--	977	990	634	725	477	512	871	--	1040	--	1500	--	2060	--	3560	--	2310
95-03	--	--	--	--	--	--	--	--	--	171	207	184	217	175	161	56.0	--	191	--	221	--	90.6	--	247	--	95.6
MW00-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	617	683	661	559J
MW00-07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	716	--	--	--
P92-02	--	--	--	--	--	--	--	--	471	367	--	313	412	--	--	--	--	460	--	346J	--	34.5	--	108	--	416
P92-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	544J	--	397	--	549	--	571
P92-04	--	--	--	--	--	--	--	--	713	49.0	329	555	569	--	--	746	741	656	718J	634J	542	430	626	594	--	540J
P92-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	415J	382J	--	--	790	--	--	--
P92-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1440	1300	1400J	1160	1270	717	1220	231	--	1060J
P92-07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	159	--	--	--	--	127	139	--	--	--
P92-09	--	--	--	--	--	--	--	--	336	--	--	319	392	--	--	--	599	627	606J	664J	783	457	643	765	--	464
PW-16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	633J
PW-17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	202J
PW-18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1710J
PW-20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1290J
PW-22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1320
PW-23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	491J
PW-28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1120	410
PW99-16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1300	1180J
T99-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	683	612	292	--	--	--
T99-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	841	--	--	--	883
T99-11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	703	718	643	--	--	--

[a]All results are in pCi/L. Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Alluvial Ground Water Thorium-230 Data Summary[a]

Well Id	1992/11	1993/03	1993/04	1993/07	1993/10	1994/05	1994/10	1995/04	1995/10	1996/02	1996/04	1996/07	1996/10	1997/10	1998/04	1998/10	1999/01	1999/04	1999/07	1999/10	2000/01	2000/04	2000/07	2000/08	2000/10	2001/01	2001/04	2001/07
Upgradient																												
92-01	0.31	0.30U	0.070U	0.090U	0.090U	0.12U	0.30U	0.30U	0.76U	--	--	--	0.11U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
92-03	0.30	0.30U	0.14U	0.22U	0.16U	0.060U	0.30U	0.30U	0.76U	--	--	--	0.050U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
92-05	--	0.45	0.070U	0.12U	0.070U	0.050U	0.30U	0.30U	0.76U	--	--	--	0.090U	0.80U	--	1.6U	--	--	--	0.60U	--	--	--	--	1.7U	--	0.92U	1.5U
MW00-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.6U	--	1.7U	--	0.92U	1.5U
MW00-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.6U	--	1.7U	--	0.92U	1.5U
On-Site																												
31SW91-03	--	--	--	--	0.090U	0.090U	0.30U	0.30U	0.76U	--	--	--	0.10U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31SW91-14	0.60U	0.30U	0.69U	7.8U	1.5U	2.7U	0.30U	0.30U	0.76U	--	--	--	0.080U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31SW91-23	0.50U	0.55	4.4U	0.19U	0.10U	0.82U	0.30U	0.30U	0.76U	--	--	--	0.11U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31SW91-35	--	--	--	--	--	--	--	--	--	--	0.070U	--	0.10U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31SW91-50	--	--	--	--	--	--	--	--	--	--	0.17U	--	0.080U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31SW91-55	--	--	--	--	--	--	--	--	--	--	0.11U	--	0.090U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
36SE91-58	--	--	--	--	--	--	--	--	--	--	0.11U	--	0.13U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
36SE91-61	--	--	--	--	--	--	--	--	--	--	--	--	0.040U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
36SE93-201-2	--	--	--	--	--	1.1	2.2	1.0	0.76U	--	1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
82-20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.6U	--	--	--	0.60U	--	--	--	--	1.7U	--	--	--
82-30B	0.30U	0.30U	0.24U	0.19U	0.16U	0.57U	2.5	0.30U	0.76U	--	0.080U	--	0.080U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
82-31B-E	--	--	--	--	0.18U	0.13U	0.30U	0.30U	0.76U	--	--	--	0.090U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
82-31B-W	0.30U	0.30U	0.14U	0.11U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
82-36A	0.60U	0.60U	3.6U	3.2U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
82-40A	1.0	0.42	1.1U	3.3U	1.6U	1.5U	0.30U	0.30U	0.76U	--	--	--	0.37J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
82-42	0.30U	0.34	0.22U	0.12UJ	0.070U	0.14U	0.30U	0.30U	0.76U	--	--	--	0.060U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GB1126T	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.60U	0.60U	--	1.5U	--	--	--	--	--	--
GB2820T	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.2U	0.60U	--	--	--	--	--	--	--	--	--
GB3127T	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.2U	--	--	--	1.5U	--	--	--	--	--	--
MW00-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.7U	0.56U	--	--
T00-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.6U	--	1.7U	--	0.92U	1.5U
T00-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.92U	1.5U
T00-17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.1U	--	--	--	--
T00-18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0U	1.7U	--	--	--
T00-19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0U	--	--	--	--
T01-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U
T01-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U
T01-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U
T01-07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U
T01-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U
T01-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U
T01-13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U
T01-18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U
T01-19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U
T01-20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U
T01-23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U
T01-24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U
T01-26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U
T01-27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5U
Downgradient																												
82-07	0.30U	0.30U	1.9U	6.6U	0.46U	0.54U	0.30U	0.30U	0.76U	--	--	--	0.075U	--	0.80U	1.6U	0.80U	--	--	--	--	1.5U	2.6U	--	--	--	--	--
82-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.2U	0.60U	0.60U	0.88U	1.5U	2.6U	--	1.7U	--	0.92U	1.5U
88-85	0.30U	0.30U	0.080U	3.4U	0.76UJ	0.67U	0.30U	0.30U	0.76U	--	--	--	0.12U	0.80U	0.80U	1.6U	0.80U	--	0.60U	0.60U	0.88U	1.5U	2.6U	--	1.7U	0.56U	0.92U	1.5U
92-07	0.30U	0.30U	0.30U	2.6U	0.51U	1.2U	0.30U	0.30U	0.76U	--	--	--	0.10U	--	--	1.6U	0.80U	1.2U	0.60U	0.60U	0.88U	1.5U	2.6U	--	1.7U	0.56U	0.92U	1.5U
92-08	0.71	0.30U	0.44U	2.7U	1.1U	0.46U	0.30U	0.30U	0.76U	--	--	--	0.12U	--	--	--	0.80U	1.2U	0.60U	0.60U	0.88U	1.5U	2.6U	--	1.7U	0.56U	0.92U	1.5U
92-09	0.34	0.30U	0.38	0.14U	0.19U	0.24U	0.30U	0.30U	0.76U	--	0.070U	--	0.080U	0.80U	0.80U	1.6U	--	1.2U	0.60U	0.60U	--	1.5U	--	--	1.7U	--	0.92U	--
92-11	0.91	0.30U	0.11U	--	1.0U	1.3U	0.30U	0.30U	0.76U	--	0.11U	--	0.11U	0.80U	0.80U	1.6U	0.80U	1.2U	0.60U	0.60U	0.88U	1.5U	2.6U	--	1.7U	0.56U	0.92U	1.5U
95-01	--	--	--	--	--	--	--	--	--	0.80U	0.070U	0.040	0.080U	0.80U	0.80U	1.6U	--	1.2U	--	0.60U	--	1.5U	--	--	1.7U	--	0.92U	--
95-03	--	--	--	--	--	--	--	--	--	0.80U	0.080U	0.060	0.10U	0.80U	0.80U	1.6U	--	1.2U	1.5U	0.60U	--	1.5U	--	--	1.7U	--	0.92U	--
MW00-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.6U	--	1.7U	0.56U	0.92U	1.5U
MW00-07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.3	--	--	--	--	1.5U
P92-02	--	--	--	--	--	--	--	--	0.76U	0.80U	--	0.030	0.060U	--	--	--	--	1.2U	0.60U	0.60U	--	1.5U	--	--	1.7U	--	0.92U	--
P92-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.60U	--	1.5U	--	--	1.7U	--	0.92U	--
P92-04	--	--	--	--	--	--	--	--	0.76U	0.80U	0.070U	0.070	0.080U	--	--	1.6U	0.80U	1.2U	0.60U	0.60U	0.88U	1.5U	2.6U	--	1.7U	--	0.92U	--
P92-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.80U	1.2U	0.60U	0.60U	0.88U	1.5U	2.6U	--	--	--	--	--
P92-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.80U	1.2U	0.60U	0.60U	0.88U	1.5U	2.6U	--	1.7U	--	0.92U	1.5U
P92-07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.80U	1.2U	0.60U	0.60U	0.88U	1.5U	2.6U	--	--	--	--	--
P92-09	--	--	--	--	--	--	--	--	0.76U	--	--	0.040	0.10U	--	--	--	0.80U	1.2U	0.60U	0.60U	0.88U	1.5U	2.6U	--	1.7U	--	0.92U	--
PW-10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.56U	--	1.5U
PW-16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.92U	1.5U
PW-17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.7U	0.56U	0.92U	1.5U
PW-18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.92U	1.5U
PW-20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.92U	1.7
PW-22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.92U	1.5U
PW-23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.92U	1.5U
PW-28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.7U	0.56U	0.92U	1.6
PW99-16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.7U	0.56U	0.92U	1.5U
T99-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.60U	0.60U	0.88U	1.5U	2.6U	--	--	--	--	--
T99-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.60U	0.60U	0.88U	1.5U	--	--	--	--	--	--
T99-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.60U	0.60U	--	1.5U	--	--	1.7U	--	0.92U	--
T99-11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.88U	1.5U	2.6U	--	--	--	--	--

[a]All results are in pCi/L. Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Alluvial Ground Water Zinc Data Summary[a]

Ground Water Criteria:	µg/L
Utah Ground Water Quality Standard Filtered Sample	5000
Region 3 RBC in Tap Water	11000
UMTRCA MCL	--

Well Id	1992/11	1993/03	1993/04	1993/07	1993/10	1994/05	1994/10	1995/04	1995/10	1996/02	1996/04	1996/07	1996/10	1997/10	1998/04	1998/10	1999/01	1999/04	1999/07
Reference - West of 191																			
92-05	--	32.5R	25.4R	3.0R	7.0U	2.0U	15.6J	29.7	3.3U	--	--	--	69.0R	2U	--	4.0U	--	--	--
On-Site																			
82-20	--	--	--	--	--	--	--	--	--	--	--	--	--	57.3	--	4.0U	--	--	--
GB1126T	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	37.4	9.0U	18.2U
GB2820T	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.0U	107	83.6
GB3127T	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	30.3	--
82-07	6.0U	3.0U	13.9J	8.1J	9.2J	7.4J	7.5J	5.9J	6.4J	--	--	--	20.4	2U	10.4J	4.0U	13.5J	--	--
82-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.0U	18.2U
88-85	500R	11.1J	12.9J	3.0U	9.4J	2.0U	2.9J	6.9J	3.3U	--	--	--	14.8	2U	7.5J	4.0U	31.4	--	18.2U
	--	--	--	3.0U	--	--	--	--	3.3U	--	--	--	--	--	--	--	--	--	--
92-07	6.0U	3.0U	17.0J	15.4J	7.0U	4.6J	2.0U	4.2J	3.3U	--	--	--	6.0U	--	--	4.0U	6.0U	9.0U	18.2U
	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.0U	--	--
92-08	6.0U	4.3J	3.7J	3.0U	7.0U	2.2J	2.0U	4.1J	8.0J	--	--	--	12.8	--	--	--	6.0U	9.0U	18.2U
	--	--	--	--	--	--	--	5.5J	--	--	--	--	9.2J	--	--	--	--	--	18.2U
92-09	6.0U	3.0U	8.9J	5.3J	7.0U	4.9J	3.0J	4.5J	3.3U	--	3.9J	--	6.7U	2U	7.6J	4.0U	--	9.0U	18.2U
	--	--	--	--	7.0U	--	8.9J	3.0U	--	--	--	--	6.0U	--	3.3J	4.0U	--	9.0U	--
92-11	6.0U	9.5J	15.9J	--	7.8J	2.0U	4.0J	18.0J	3.3U	--	4.7J	--	6.0U	34.0	4.1J	4.0U	6.0U	9.0U	18.2U
	6.0U	--	6.3J	--	--	2.0U	--	--	--	--	--	--	--	--	--	--	--	--	--
95-01	--	--	--	--	--	--	--	--	--	20.4J	4.7J	27.0	6.0U	2U	7.6J	4.0U	--	9.0U	--
	--	--	--	--	--	--	--	--	--	--	--	5.2J	--	2U	--	--	--	--	--
95-03	--	--	--	--	--	--	--	--	--	3.1J	10.6J	4.6J	6.7U	2U	3.5J	4.0U	--	9.0U	18.2U
	--	--	--	--	--	--	--	--	--	2.2U	--	--	--	--	--	--	--	--	--
P92-02	--	--	--	--	--	--	--	--	8.2R	7.0J	--	7.5J	6.0U	--	--	--	--	9.0U	18.2U
P92-04	--	--	--	--	--	--	--	--	6.3J	21.0J	10.3J	7.3J	6.0U	--	--	4.1J	6.0U	9.0U	18.2U
P92-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.0U	9.0U	18.2U
P92-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.0U	9.0U	18.2U
P92-07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.0J	9.0U	20.5
P92-09	--	--	--	--	--	--	--	--	4.8J	--	--	16.8J	6.0U	--	--	--	6.0U	9.0U	18.2U
T99-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18.2U
T99-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18.2U
T99-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.8

[a]All results are in µg/L. Definition of Qualifiers: R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.

End of current text

Section C2.0

Surface Water Analytical Results

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Upstream -- SW92-03[a]

Analyte	Unit	November 1992 – December 1996[b]											
		Minimum	Maximum	Average	Median	FOD	10/14/97	10/05/98	10/13/99	10/30/00	04/17/01	07/12/01	10/09/01
Field Measurements													
Alkalinity[c]	mg/L	114	233	176	170	9/9	183	144	188	225	216	177	103
Conductivity[d]	µmhos/cm	659	1880	1000	871	8/8	1386	1212	1082	839	777	678	650
pH[d]	s.u.	7.81	8.42	8.07	8.08	8/8	8.15	7.82	--	7.58	8.25	7.88	7.83
Temperature[d]	C	1.2	15.2	6.83	5.8	9/9	8.9	8.8	8.9	6.5	15.7	16.1	8.8
Common Ions													
Ca[d]	mg/L	98.4	341	210	200	11/11	258	211	--	--	--	--	--
Ca[c]	mg/L	108	342	238	250	4/4	258	206	176	132	107	89.7	81.2
Chloride[c]	mg/L	2.84	9.01	6.71	7.56	11/11	6.16	4.27	6.36	7.26	10.7	8.57	22.9
Fluoride[c]	µg/L	78.7	202	129	122	11/11	195	253	207	196	148	132	449
Hardness[d]	mg/L	305	1060	648	618	11/11	785	649	--	--	--	--	--
Hardness[c]	mg/L	331	1050	732	773	4/4	786	636	546	412	335	286	250
K[d]	mg/L	0.906U	3.68J	1.93	2.11	8/11	2.56	2.68J	--	--	--	--	--
K[c]	mg/L	1.05U	2.88J	2.1	2.49	3/4	2.56	2.62J	2.37	1.97	2.42	1.15	12.4
Mg[d]	mg/L	14.1	49.6	29.8	27	11/11	34.2	29.6	--	--	--	--	--
Mg[c]	mg/L	14.8	48.1	33.7	35.9	4/4	34.4	29.5	25.8	20.0	16.4	15.1	11.5
Na[d]	mg/L	10.2	30.0J	23.3	25.2	11/11	23.1	18.4	--	--	--	--	--
Na[c]	mg/L	17.9	28.7	24.1	24.9	4/4	23.1	17.5	22.5	23.1	33.5	32.2	11.6
NO_3+NO_2 as N[c]	µg/L	15.4	1040	341	175	8/8	233	9.6	12U	32.4UJ	4.7U	49.9	1650
SO_4[c]	mg/L	142	872	469	435	11/11	579	481	399	241	160J	147	166
TDS[d]	mg/L	450	1560	941	898	11/11	1090	932	870	602	540	445	478
Metals													
As[d]	µg/L	1.0U	4.0UJ	1.15	1	0/11	2.3J	1.1U	--	--	--	--	--
As[c]	µg/L	1.0U	2.0U	0.6	0.5	0/5	2.3J	1.0UR	0.4U	0.34	0.5U	0.5U	2.4
Fe[c]	µg/L	5.0U	6.0U	2.75	2.75	0/2	--	--	9U	11.7U	17.1	11.5	0.8UJ
Mn[d]	µg/L	6.6J	38.3	19	17.9	11/11	34.1	30.9	--	--	--	--	--
Mn[c]	µg/L	5.7	12.8J	9.96	11.9	5/5	31.2	21.3	4.8	7.2	11.8	14	27.2
Mo[d]	µg/L	1.0U	27.0U	4.88	2.5	6/11	2.4	3.6J	--	--	--	--	--
Mo[c]	µg/L	1.9J	15.9J	5.88	2.4	4/5	2.5	4.5J	0.8U	1.9	0.4U	3U	3
Se[d]	µg/L	1.0U	4.1J	1.4	1	3/11	2.2U	1.1U	--	--	--	--	--
Se[c]	µg/L	1.0UJ	2.0U	0.82	1	1/5	2.2U	1.0U	0.1	0.15	0.65	0.3U	0.57
U[d]	µg/L	1.0U	4.5J	2.55	2.5	7/8	3.1	2.6J	--	--	--	--	--
U[c]	µg/L	2.3J	2.3J	2.3	2.3	1/1	3.2	3.2J	3	2.5	4.3	2.9	2.3
V[d]	µg/L	4.0U	8.0U	3.16	3	2/11	1.1U	2.2U	--	--	--	--	--
V[c]	µg/L	1.0U	6.0U	2.3	3	0/5	1.1U	2.0U	1U	1.3U	0.96	1.3	4.8
Radiological													
Alpha[d,e]	pCi/L	--	--	--	--	--	--	--	--	9.1U	4.4U	5.2UJ	9.7J
Alpha[c,e]	pCi/L	7.8U	51.0U	12.7	11	0/11	8.6U	8.6UJ	8.9UJ	--	--	--	--
Alpha-U[d,f]	pCi/L	--	--	--	--	--	--	--	--	9.1U	4.4U	5.2UJ	6.2J
Alpha-U[c,f]	pCi/L	7.8U	51.0U	12.7	11	0/11	8.6U	8.6UJ	8.9UJ	--	--	--	--
Beta[d]	pCi/L	--	--	--	--	--	--	--	--	9.4	4.0U	4.1U	25.3
Beta[c]	pCi/L	9.6U	35.0U	9.47	7.3	0/11	8.5U	9.0U	9.0U	--	--	--	--
U[d]	µg/L	1.0U	4.5J	2.55	2.5	7/8	3.1	2.6J	--	--	--	--	--
U[c]	µg/L	2.3J	2.3J	2.3	2.3	1/1	3.2	3.2J	3	2.5	4.3	2.9	2.3
U-234[d]	pCi/L	--	--	--	--	--	--	--	--	1.9	2.5	0.76UJ	2.3
U-238[d]	pCi/L	--	--	--	--	--	--	--	--	0.99	1.9	1.1	1.2

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

Upstream -- SW00-01[a]

Analyte	Unit	04/18/00	07/17/00	10/20/00	04/17/01	07/11/01	10/09/01
Field Measurements							
Alkalinity[c]	mg/L	196	130	263	218	196	98
Conductivity[d]	µmhos/cm	1544	847	8190	792	652	632
pH[d]	s.u.	8.13	8.21	7.56	8.3	8.18	8.08
Temperature[d]	C	5.6	19.5	3.1	13.1	19.7	9.8
Common Ions							
Ca[c]	mg/L	148	135	124	107	83.6	78.8
Chloride[c]	mg/L	9.67	7.42	6.45	10.8	8.48	19.8
Fluoride[c]	µg/L	174	201	202	10.4U	592	473
Hardness[c]	mg/L	461	431	388	338	272	244
K[c]	mg/L	1.50	2.04	1.91	2.18	1.29	12.4
Mg[c]	mg/L	22.2	22.9	19.0	17.1	15.4	11.5
Na[c]	mg/L	27.7	25.5	21.6	34.9	30.3	12.1
NO_3+NO_2 as N[c]	µg/L	32.4U	238	32.4U	4.7U	37	1680
SO_4[c]	mg/L	298	319	225	162J	146	165
TDS[d]	mg/L	660	682	588	542	425	495
Metals							
As[c]	µg/L	0.24	0.3U	0.45	0.5U	0.5U	2.4
Fe[c]	µg/L	7.4U	9.1U	21.9	40.6	5.1	80.7J
Mn[c]	µg/L	6.6	5	8.2	10.8	3.6	23.2
Mo[c]	µg/L	0.4U	2.1	1.7	0.4U	3.5	2.4
Se[c]	µg/L	0.75	0.18	0.12	0.56	0.3U	0.3U
U[c]	µg/L	3.7	3.9	2.4	4.5	3	2.5
V[c]	µg/L	1.1	1.3U	1.3U	0.87	1.6	5
Radiological							
Alpha[d,e]	pCi/L	6.4U	6.6UJ	9.0U	4.6U	2.8UJ	10.3UJ
Alpha-U[d,f]	pCi/L	6.4U	6.6UJ	9.0U	4.6U	2.8UJ	10.3UJ
Beta[d]	pCi/L	6.3U	7.6U	7.5U	4.0U	2.7U	23.9
U[c]	µg/L	3.7	3.9	2.4	4.5	3	2.5
U-234[d]	pCi/L	--	--	0.52U	3.5	0.76UJ	4.1
U-238[d]	pCi/L	--	--	0.85	2.2	1.3	1.4

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- SW99-01[a]

Analyte	Unit	01/26/99	04/13/99	07/27/99	10/12/99	01/13/00
Field Measurements						
Alkalinity[c]	mg/L	192	179	126	184	217
Conductivity[d]	µmhos/cm	1327	1164	1023	1058	982
pH[d]	s.u.	8.42	7.88	8.11	--	--
Temperature[d]	C	0.9	11.1	23.8	10.9	0.3
Common Ions						
Ca[d]	mg/L	--	191	173	130	--
Ca[c]	mg/L	246	184	164	173	140
Chloride[c]	mg/L	9.76	7.96	6.26	6.37	8.97
Fluoride[c]	µg/L	267	354	194J	204	151
Hardness[d]	mg/L	--	588	543	403	--
Hardness[c]	mg/L	757	569	517	539	436
K[d]	mg/L	--	2.06J	2.23J	1.91	--
K[c]	mg/L	2.54J	2.04J	2.08J	2.53	1.68
Mg[d]	mg/L	--	26.9	26.9	19.0	--
Mg[c]	mg/L	34.7	26.7	26.0	26.1	21.1
Na[d]	mg/L	--	27.1	24.0	16.6	--
Na[c]	mg/L	30.1	26.0	22.0	21.9	29.0
NO_3+NO_2 as N[c]	µg/L	95.1J	4.0U	12UJ	12U	84.7J
SO_4[c]	mg/L	606	447	412	406	255
TDS[d]	mg/L	1110	845	805	808	695
Metals						
As[d]	µg/L	--	1.1U	1.1U	0.44U	--
As[c]	µg/L	0.10U	1.0U	1.0U	0.4U	0.4U
Fe[d]	µg/L	--	5.0U	277	9.0U	--
Fe[c]	µg/L	--	5.0U	5.9U	9U	8.9U
Mn[d]	µg/L	--	18.6	39.3J	5	--
Mn[c]	µg/L	22.4J	13.9J	8.0J	3.5	11.3
Mo[d]	µg/L	--	2.7J	2.8J	1.4	--
Mo[c]	µg/L	2.7J	2.5J	2.2J	0.8U	0.4U
Se[d]	µg/L	--	1.1U	1.1U	0.22	--
Se[c]	µg/L	0.87J	1.0U	1.0U	0.1U	0.46
U[d]	µg/L	--	3.4J	2.7J	3	--
U[c]	µg/L	5.8	3.1J	2.6J	3.1	3.2
V[d]	µg/L	--	1.1U	2.4J	1.1U	--
V[c]	µg/L	1.1J	1.0U	0.73J	1U	1U
Radiological						
Alpha[d,e]	pCi/L	--	9.4UJ	9.5UJ	7.9UJ	7.5U
Alpha[c,e]	pCi/L	9.8U	7.3UJ	6.8UJ	6.2UJ	--
Alpha-U[d,f]	pCi/L	--	9.4UJ	9.5UJ	7.9UJ	7.5U
Alpha-U[c,f]	pCi/L	9.8U	7.3UJ	6.8UJ	6.2UJ	--
Beta[d]	pCi/L	--	11.4U	13.5U	10.6U	10.5U
Beta[c]	pCi/L	9.4U	7.3U	7.5U	6.8U	--
U[d]	µg/L	--	3.4J	2.7J	3	--
U[c]	µg/L	5.8	3.1J	2.6J	3.1	3.2

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- Seep Pond[a]

Analyte	Unit	07/11/01
Field Measurements		
Alkalinity[c]	mg/L	176
Conductivity[d]	µmhos/cm	1227
pH[d]	s.u.	8.4
Temperature[d]	C	20.1
Common Ions		
Ca[c]	mg/L	71.2
Chloride[c]	mg/L	204
Fluoride[c]	µg/L	451
Hardness[c]	mg/L	343
K[c]	mg/L	1.53
Mg[c]	mg/L	40.0
Na[c]	mg/L	113
NO_3+NO_2 as N[c]	µg/L	30
SO_4[c]	mg/L	139
TDS[d]	mg/L	787
Metals		
As[c]	µg/L	1.2
Fe[c]	µg/L	13.1
Mn[c]	µg/L	17.1
Mo[c]	µg/L	5.5
Se[c]	µg/L	3.5
U[c]	µg/L	59.8
V[c]	µg/L	5.3
Radiological		
Alpha[d,e]	pCi/L	20.7J
Alpha-U[d,f]	pCi/L	0[g]
Beta[d]	pCi/L	10U
U[c]	µg/L	59.8
U-234[d]	pCi/L	24.4J
U-238[d]	pCi/L	19.7

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]*Sample was filtered in the field.*
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- Seep 4[a]

Analyte	Unit	07/12/01	10/08/01
Field Measurements			
Alkalinity[c]	mg/L	312	315
Conductivity[d]	µmhos/cm	2220	2650
pH[d]	s.u.	6.84	6.77
Temperature[d]	C	10.5	11
Common Ions			
Ca[c]	mg/L	386	418
Chloride[c]	mg/L	21.3	13.8
Fluoride[c]	µg/L	155	72.5
Hardness[c]	mg/L	1310	1400
K[c]	mg/L	2.94	2.81
Mg[c]	mg/L	84.2	86.2
Na[c]	mg/L	83.3	78.2
NO_3+NO_2 as N[c]	µg/L	1040	592
SO_4[c]	mg/L	1100	1270
TDS[d]	mg/L	2040	--
Metals			
As[c]	µg/L	0.5U	0.6U
Fe[c]	µg/L	5.4	0.8UJ
Mn[c]	µg/L	1.5	0.89
Mo[c]	µg/L	3U	1.9U
Se[c]	µg/L	7.3	4.3
U[c]	µg/L	7.2	7.1
V[c]	µg/L	0.3U	0.3U
Radiological			
Alpha[d,e]	pCi/L	10.0UJ	--
Alpha-U[d,f]	pCi/L	10.0UJ	--
Beta[d]	pCi/L	9.4U	--
U[c]	µg/L	7.2	7.1
U-234[d]	pCi/L	6.5J	--
U-238[d]	pCi/L	2.9	--

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- SW01-02[a]

Analyte	Unit	07/11/01	10/08/01	01/31/02	04/10/02
Field Measurements					
Alkalinity[c]	mg/L	205	192	270	325
Conductivity[d]	µmhos/cm	1500	1989	1727	1886
DO[d]	mg/L	--	--	11.68	--
pH[d]	s.u.	7.93	7.82	7.66	8.05
Temperature[d]	C	27.1	19.9	0.4	8.2
Common Ions					
Ca[c]	mg/L	238	343	303	324
Chloride[c]	mg/L	8.75	6.39	14.1	9.96
Fluoride[c]	µg/L	228	201	112	143
Hardness[c]	mg/L	802	1150	1010	1090
K[c]	mg/L	2.46	2.79	2.35	2.37
Mg[c]	mg/L	50.5	71.9	60.8	67.8
Na[c]	mg/L	43.6	45.1	43.6	46.7
NH_4[c]	µg/L	--	--	14.2	--
NO_3+NO_2 as N[c]	µg/L	26.3	7.3U	38	52.8
SO_4[c]	mg/L	677	1000	827	851
TDS[d]	mg/L	1250	1720	1570	1640
Metals					
As[c]	µg/L	0.5U	0.6U	0.6U	0.32
Fe[c]	µg/L	3.8	11.1J	0.8U	1U
Mn[c]	µg/L	12	14.6	47.7	26
Mo[c]	µg/L	3.7	1.9U	1.5U	1.8U
Se[c]	µg/L	0.3U	0.51	0.95	1.2
U[c]	µg/L	7.8	9	8.7	10
V[c]	µg/L	1.5	0.71	0.69	0.7
Radiological					
Alpha[d,e]	pCi/L	10.9UJ	14.9UJ	9.5U	10.1U
Alpha-U[d,f]	pCi/L	10.9UJ	14.9UJ	9.5U	10.1U
Beta[d]	pCi/L	10.0U	14.4U	9.3U	9.6U
U[c]	µg/L	7.8	9	8.7	10
U-234[d]	pCi/L	5.0J	4.3	5.4	7.6
U-238[d]	pCi/L	2.9	3.5	3.2	3.5

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J =Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- SW99-02[a]

Analyte	Unit	01/26/99	04/13/99	10/12/99
Field Measurements				
Alkalinity[c]	mg/L	266	274	286
Conductivity[d]	µmhos/cm	1879	1898	1238
pH[d]	s.u.	7.23	6.54	--
Temperature[d]	C	6.5	8.5	11.5
Common Ions				
Ca[c]	mg/L	330	272	272
Chloride[c]	mg/L	26.5	22.8	23.8
Fluoride[c]	µg/L	317	174J	267
Hardness[c]	mg/L	1040	860	864
K[c]	mg/L	3.47J	2.99J	3.29
Mg[c]	mg/L	53.6	43.8	45.0
Na[c]	mg/L	51.2	44.8	46.5
NO_3+NO_2 as N[c]	µg/L	991J	468	335
SO_4[c]	mg/L	833	701	664
TDS[d]	mg/L	1520	1350	1340
Metals				
As[c]	µg/L	0.10U	1.0U	0.4U
Fe[c]	µg/L	--	5.0U	182
Mn[c]	µg/L	3.8J	2.2J	32.9
Mo[c]	µg/L	2.5J	2.6J	1.1
Se[c]	µg/L	2.7J	2.4J	2
U[c]	µg/L	27.4	22.1	20.2
V[c]	µg/L	1.0U	1.0U	1.0U
Radiological				
Alpha[c,e]	pCi/L	13.7U	11.6UJ	10.4UJ
Alpha-U[c,f]	pCi/L	13.7U	11.6UJ	10.4UJ
Beta[c]	pCi/L	13.9	11.7U	17.2
U[c]	µg/L	27.4	22.1	20.2

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- Seep 6[a]

Analyte	Unit	04/10/02
Field Measurements		
Conductivity[d]	µmhos/cm	2550
pH[d]	s.u.	7.62
Temperature[d]	C	9.3
Common Ions		
Ca[c]	mg/L	326
Hardness[c]	mg/L	1280
K[c]	mg/L	8.45
Mg[c]	mg/L	114
Na[c]	mg/L	274
Metals		
As[c]	µg/L	0.88
Fe[c]	µg/L	1U
Mn[c]	µg/L	0.1U
Mo[c]	µg/L	17.5
Se[c]	µg/L	15.5
U[c]	µg/L	2090
V[c]	µg/L	227
Radiological		
U[c]	µg/L	2090

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- SW99-02A[a]

Analyte	Unit	07/27/99
Field Measurements		
Alkalinity[c]	mg/L	376
Conductivity[d]	µmhos/cm	1218
pH[d]	s.u.	7.08
Temperature[d]	C	16.5
Common Ions		
Ca[c]	mg/L	210
Chloride[c]	mg/L	72.2
Fluoride[c]	µg/L	321
Hardness[c]	mg/L	698
K[c]	mg/L	2.17J
Mg[c]	mg/L	42.2
Na[c]	mg/L	76.2
NO_3+NO_2 as N[c]	µg/L	12UJ
SO_4[c]	mg/L	357
TDS[d]	mg/L	1110
Metals		
As[c]	µg/L	1.0U
Fe[c]	µg/L	982
Mn[c]	µg/L	1130
Mo[c]	µg/L	0.90U
Se[c]	µg/L	1.0U
U[c]	µg/L	42.9
V[c]	µg/L	0.60U
Radiological		
Alpha[c,e]	pCi/L	12.5J
Alpha-U[c,f]	pCi/L	0[g]
Beta[c]	pCi/L	14.9
U[c]	µg/L	42.9

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

Cross Gradient -- Seep 5[a]

Analyte	Unit	02/19/02	04/10/02
Field Measurements			
Alkalinity[c]	mg/L	254	327
Conductivity[d]	µmhos/cm	1078	1023
pH[d]	s.u.	7.83	8.22
Temperature[d]	C	0.3	10.9
Common Ions			
Ca[c]	mg/L	--	79.4
Hardness[c]	mg/L	--	331
K[c]	mg/L	--	0.484
Mg[c]	mg/L	--	32.2
Na[c]	mg/L	--	81.7
NO_3+NO_2 as N[c]	µg/L	656	--
Metals			
As[c]	µg/L	0.6U	0.57
Fe[c]	µg/L	8.8	1U
Mn[c]	µg/L	50.9	7.1
Mo[c]	µg/L	4.4	4.9
Se[c]	µg/L	10.6	5.9
U[c]	µg/L	92.2	59.1
V[c]	µg/L	5.8	4.6
Radiological			
U[c]	µg/L	92.2	59.1

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- W2-Culvert[a]

Analyte	Unit	02/20/02
Field Measurements		
Alkalinity[c]	mg/L	232
Conductivity[d]	µmhos/cm	3290
pH[d]	s.u.	7.49
Temperature[d]	C	0.4
Common Ions		
NO_3+NO_2 as N[c]	µg/L	18000
Metals		
As[c]	µg/L	0.6U
Fe[c]	µg/L	6.4
Mn[c]	µg/L	31.8
Mo[c]	µg/L	18.7
Se[c]	µg/L	21.6
U[c]	µg/L	1940
V[c]	µg/L	73.3
Radiological		
U[c]	µg/L	1940

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- W2-Ditch[a]

Analyte	Unit	02/20/02
Field Measurements		
Alkalinity[c]	mg/L	233
Conductivity[d]	µmhos/cm	3560
pH[d]	s.u.	7.39
Temperature[d]	C	1.9
Common Ions		
NO_3+NO_2 as N[c]	µg/L	17900
Metals		
As[c]	µg/L	0.6U
Fe[c]	µg/L	11.3
Mn[c]	µg/L	40.8
Mo[c]	µg/L	19.5
Se[c]	µg/L	23.1
U[c]	µg/L	2330
V[c]	µg/L	73.6
Radiological		
U[c]	µg/L	2330

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- SW01-03[a]

Analyte	Unit	07/11/01	10/08/01	01/31/02	04/10/02	10/09/02
Field Measurements						
Alkalinity[c]	mg/L	241	241	304	280	120
Conductivity[d]	µmhos/cm	1488	1653	1505	1573	1376
DO[d]	mg/L	--	--	9.71	--	--
pH[d]	s.u.	7.17	7.12	7.45	7.58	8.2
Temperature[d]	C	18.9	15.2	2.79	8.2	17.2
Common Ions						
Ca[c]	mg/L	229	258	256	247	161
Chloride[c]	mg/L	19.3	21.7	29.8	23.7	34.3
Fluoride[c]	µg/L	209	235	193	92.9	165J
Hardness[c]	mg/L	762	856	837	816	598
K[c]	mg/L	2.63	2.66	2.61	2.32	1.84
Mg[c]	mg/L	46.1	51.5	48.1	48.5	47.7
Na[c]	mg/L	51.9	53.0	50.3	48.8	60.0
NH_4[c]	µg/L	--	--	4.2U	--	5.0
NO_3+NO_2 as N[c]	µg/L	46.1	34.5	103	104	10.9
SO_4[c]	mg/L	594	705	621	558	643
TDS[d]	mg/L	1220	1330	1330	1220	1100
Metals						
As[c]	µg/L	0.5U	0.6U	0.6U	0.26	0.11
Fe[c]	µg/L	6.7	11.3J	0.8U	1U	0.8U
Mn[c]	µg/L	9.1	5.4	191	90.4	7.4
Mo[c]	µg/L	3U	1.9U	1.5U	1.8U	1.7U
Se[c]	µg/L	1.9	0.56	1.2	1.3	0.1U
U[c]	µg/L	23.4	30.7	25.2	23.8	66.1
V[c]	µg/L	4	3	2	1.9	0.83
Radiological						
Alpha[d,e]	pCi/L	10.0UJ	20.2J	15.1	14.0	37.6
Alpha-U[d,f]	pCi/L	10.0UJ	0[g]	0[g]	0[g]	0[g]
Beta[d]	pCi/L	10.2	12.0	7.5U	13.6	15.0
U[c]	µg/L	23.4	30.7	25.2	23.8	66.1
U-234[d]	pCi/L	8.8J	12.8	9.7	10.0	22.7
U-238[d]	pCi/L	9.1	11.4	8.8	8.6	24.5

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

Cross Gradient -- Steele Pond[a]

Analyte	Unit	10/23/01	02/19/02
Field Measurements			
Alkalinity[c]	mg/L	102	58
Conductivity[d]	µmhos/cm	1226	5640
pH[d]	s.u.	9.81	8.91
Temperature[d]	C	9.4	0.1
Common Ions			
Ca[c]	mg/L	53.1	--
Chloride[c]	mg/L	213	--
Fluoride[c]	µg/L	299	--
Hardness[c]	mg/L	249	--
K[c]	mg/L	7.55	--
Mg[c]	mg/L	28.2	--
Na[c]	mg/L	128	--
NO_3+NO_2 as N[c]	µg/L	2480	1050
SO_4[c]	mg/L	213	--
TDS[d]	mg/L	727	--
Metals			
As[c]	µg/L	0.6U	0.6U
Fe[c]	µg/L	35.5	8.5
Mn[c]	µg/L	4.3	32.4
Mo[c]	µg/L	3.9	1.5U
Se[c]	µg/L	9.3	4
U[c]	µg/L	23.5	7.6
V[c]	µg/L	7.8	3.3
Radiological			
Alpha[d,e]	pCi/L	96.0	--
Alpha-U[d,f]	pCi/L	78.8	--
Beta[d]	pCi/L	31.9	--
U[c]	µg/L	23.5	7.6
U-234[d]	pCi/L	8.5	--
U-238[d]	pCi/L	8.7	--

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- SW99-03[a]

Analyte	Unit	01/26/99	04/13/99	07/27/99
Field Measurements				
Alkalinity[c]	mg/L	229	183	60
Conductivity[d]	µmhos/cm	2300	1792	1048
pH[d]	s.u.	8.71	7.48	9.03
Temperature[d]	C	1.4	11.9	27.0
Common Ions				
Ca[c]	mg/L	178	114	73.2
Chloride[c]	mg/L	470	342	122
Fluoride[c]	µg/L	544	337	576
Hardness[c]	mg/L	612	393	280
K[c]	mg/L	8.36	5.07	4.25J
Mg[c]	mg/L	40.7	26.4	23.5
Na[c]	mg/L	253	190	98.7
NO_3+NO_2 as N[c]	µg/L	12700J	11900	7040J
SO_4[c]	mg/L	253	180	230
TDS[d]	mg/L	1490	1030	727
Metals				
As[c]	µg/L	0.45J	1.2J	1.3J
Fe[c]	µg/L	--	5.0U	5.9U
Mn[c]	µg/L	51.8J	22.1	3.0J
Mo[c]	µg/L	15.2J	5.1J	5.7J
Se[c]	µg/L	20.0	17.8	23.0
U[c]	µg/L	210	48.8	19.0
V[c]	µg/L	10.9J	10.0J	14.0J
Radiological				
Alpha[c,e]	pCi/L	80.2	21.2J	15.0J
Alpha-U[c,f]	pCi/L	0[g]	0[g]	1.9J
Beta[c]	pCi/L	68.8	14.9	12.7
U[c]	µg/L	210	48.8	19.0

[a]*Definition of Qualifiers:* -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- Millsite Weir[a]

Analyte	Unit	10/09/01
Field Measurements		
Alkalinity[c]	mg/L	220
Conductivity[d]	µmhos/cm	1305
pH[d]	s.u.	7.66
Temperature[d]	C	13.9
Common Ions		
Ca[c]	mg/L	218
Chloride[c]	mg/L	19.2
Fluoride[c]	µg/L	245
Hardness[c]	mg/L	711
K[c]	mg/L	3.48
Mg[c]	mg/L	40.4
Na[c]	mg/L	42.4
NO_3+NO_2 as N[c]	µg/L	612
SO_4[c]	mg/L	581
TDS[d]	mg/L	1120
Metals		
As[c]	µg/L	1
Fe[c]	µg/L	20J
Mn[c]	µg/L	40.9
Mo[c]	µg/L	1.9U
Se[c]	µg/L	0.87
U[c]	µg/L	23.2
V[c]	µg/L	16.8
Radiological		
Alpha[d,e]	pCi/L	16.4J
Alpha-U[d,f]	pCi/L	0[g]
Beta[d]	pCi/L	15.9
U[c]	µg/L	23.2
U-234[d]	pCi/L	8.8
U-238[d]	pCi/L	9.2

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- SW92-04[a]

Analyte	Unit	November 1992 – December 1996[b] Minimum	Maximum	Average	Median	FOD	10/17/97	10/13/98
			Field Measurements					
Alkalinity[c]	mg/L	124	344	242	232	10/10	232	147
Conductivity[d]	µmhos/cm	733	1956	1480	1580	10/10	1660	1041
pH[d]	s.u.	7.51	8.42	7.88	7.86	10/10	7.79	8.49
Temperature[d]	C	3.3	16.9	8.28	7.4	10/10	6.1	10.4
			Common Ions					
Ca[d]	mg/L	114	358	268	295	10/10	308	203
Ca[c]	mg/L	220	347	303	341	3/3	301	198
Chloride[c]	mg/L	4.35	48.2	15.1	12.2	10/10	9.35	4.48
Fluoride[c]	µg/L	75.6	197	118	104	10/10	173	252J
Hardness[d]	mg/L	358	1150	847	924	10/10	951	625
Hardness[c]	mg/L	687	1080	942	1060	3/3	927	611
K[d]	mg/L	1.00	5.54	2.89	3.08	10/10	2.82	2.69J
K[c]	mg/L	1.33J	3.29	2.51	2.91	3/3	2.66	2.68J
Mg[d]	mg/L	17.9	63.1	43.3	45.9	10/10	44.1	28.6
Mg[c]	mg/L	33.5	52.3	45.4	50.4	3/3	42.7	28.4
Na[d]	mg/L	15.8	73.7	43.7	41.5	10/10	33.8	17.9
Na[c]	mg/L	32.6	42.4	37	35.9	3/3	33.0	16.8
NH_4[c]	µg/L	19.8	98.0	45.6	41.5	10/10	--	--
NO_2 as N[c]	µg/L	5.0	8.3	6.9	7.15	4/4	--	--
NO_3 as N[c]	µg/L	184	1100	505	369	4/4	--	--
NO_3+NO_2 as N[c]	µg/L	122	1870	623	423	6/6	269	4.0U
SO_4[c]	mg/L	272	928	640	706	10/10	666	483
TDS[d]	mg/L	542	1860	1280	1380	10/10	1310	910
Metals								
As[d]	µg/L	1.0U	33.9J	6.51	1.5	4/10	12.4J	1.1U
As[c]	µg/L	1.0U	15.6	4.4	0.75	2/4	2.2UJ	1.0U
Fe[d]	µg/L	81.0J	1340	371	249	8/8	--	--
Fe[c]	µg/L	6.0U	17.2J	10.1	10.1	1/2	--	--
Mn[d]	µg/L	50.6	785	265	179	10/10	152	14.7J
Mn[c]	µg/L	134	452	241	189	4/4	142	10.1J
Mo[d]	µg/L	2.1J	47.1J	13.2	9.4	7/10	2.3	3.2J
Mo[c]	µg/L	2.3J	24.7J	9.08	4.65	3/4	2.5	2.8J
Se[d]	µg/L	1.0U	15.0UJ	4.75	2.4	5/10	2.2U	1.1U
Se[c]	µg/L	1.0UJ	10.9	3.43	1.15	2/4	2.2U	1.0U
U[d]	µg/L	8.3	209	81.6	53.1	8/8	20.8	3.3J
U[c]	µg/L	90.1	90.1	90.1	90.1	1/1	20.6	3.3J
V[d]	µg/L	2.3J	777	184	89.2	8/10	2.7J	2.2U
V[c]	µg/L	1.7J	442	112	2.5	2/4	1.5J	2.0U
			Radiological					
Alpha[c,e]	pCi/L	17.3UJ	148	50.8	25.4	5/10	11.1	8.9U
Alpha-U[c,f]	pCi/L	0[g]	72.0J	16.2	10.3	5/10	0[g]	8.9U
Beta[c]	pCi/L	14.7U	48.0	20.7	16.3	3/10	10.2U	9.6U
U[d]	µg/L	8.3	209	81.6	53.1	8/8	20.8	3.3J
U[c]	µg/L	90.1	90.1	90.1	90.1	1/1	20.6	3.3J
U-234[c]	pCi/L	5.4	74.1	28.1	19.3	10/10	--	--
U-235[c]	pCi/L	0.53	7.0	1.71	1.05	5/8	--	--
U-238[c]	pCi/L	3.8	74.4	25.9	17.5	10/10	--	--

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[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- Seep 4307[a]

Analyte	Unit	04/14/00	10/20/00
Field Measurements			
Alkalinity[c]	mg/L	345	106
Conductivity[d]	µmhos/cm	8490	1671
pH[d]	s.u.	7.39	8.97
Temperature[d]	C	7.3	18.2
Common Ions			
Ca[c]	mg/L	--	126
Chloride[c]	mg/L	--	52.6
Fluoride[c]	µg/L	--	375
Hardness[c]	mg/L	--	430
K[c]	mg/L	--	8.26
Mg[c]	mg/L	--	27.9
Na[c]	mg/L	--	179
NO_3+NO_2 as N[c]	µg/L	80000	488
SO_4[c]	mg/L	--	668
Metals			
As[c]	µg/L	0.2U	0.36
Fe[c]	µg/L	7.4U	11.7U
Mn[c]	µg/L	4	2.0U
Mo[c]	µg/L	514	110
Se[c]	µg/L	161	3.5
U[c]	µg/L	1480	197
V[c]	µg/L	0.4U	1.3U
Radiological			
Alpha[d,e]	pCi/L	--	110J
Alpha-U[d,f]	pCi/L	--	0[g]
Beta[d]	pCi/L	--	68.0
U[c]	µg/L	1480	197
U-234[d]	pCi/L	487	67.9
U-235[d]	pCi/L	20.7	--
U-238[d]	pCi/L	492	71.1

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[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- Seep 3[a]

Analyte	Unit	04/18/01	07/12/01	10/09/01	01/31/02	02/19/02	04/03/02	10/09/02
Field Measurements								
Alkalinity[c]	mg/L	390	435	390	427	429	--	438
Conductivity[d]	µmhos/cm	3650	3640	5060	3554	4000	3883	3923
DO[d]	mg/L	--	--	--	7.42	--	--	--
pH[d]	s.u.	7.12	6.99	7	6.84	6.8	7.31	6.87
Temperature[d]	C	10	22.3	13.7	2.1	2.5	11.18	13.7
Common Ions								
Ca[c]	mg/L	429	485	522	472	--	493	497
Chloride[c]	mg/L	256	303	509	286	--	283	310
Fluoride[c]	µg/L	473	587	919	425	--	342	50.2UJ
Hardness[c]	mg/L	1550	1730	2190	1680	--	1770	1790
K[c]	mg/L	7.74	8.80	12.3	8.02	--	8.48	8.60
Mg[c]	mg/L	116	125	215	121	--	130	133
Na[c]	mg/L	265	281	462	268	--	256	276
NH_4[c]	µg/L	--	--	--	22.1	--	--	4.9U
NO_3+NO_2 as N[c]	µg/L	34300	38000	59300	42900	44700	47100	52000
SO_4[c]	mg/L	594J	1350	1870	1350	--	1350	1410
TDS[d]	mg/L	--	3230	--	3230	--	--	3230
Metals								
As[c]	µg/L	0.5U	0.5U	0.6U	0.6U	0.6U	0.11	0.1U
Fe[c]	µg/L	1.0U	2.3	14.3J	0.8U	13.5	1U	0.8U
Mn[c]	µg/L	0.1U	9.7	21.2	3.7	8.3	4.7	10.6
Mo[c]	µg/L	0.4U	3U	1.9U	1.5U	1.5U	1.8U	1.7U
Se[c]	µg/L	93.4	106	221	116	129	128	112
U[c]	µg/L	40.6	39.3	49.3	38.6	41	38	40.1
V[c]	µg/L	0.4U	0.3U	0.72	0.4U	0.51	0.37	0.61
Radiological								
Alpha[d,e]	pCi/L	--	23.2J	--	34.2	--	--	30.6
Alpha-U[d,f]	pCi/L	--	0[g]	--	0[g]	--	--	0[g]
Beta[d]	pCi/L	--	13.2U	--	15.1U	--	--	18.9
U[c]	µg/L	40.6	39.3	49.3	38.6	41	38	40.1
U-234[d]	pCi/L	24.3	22.8J	--	22.1	--	--	19.7
U-238[d]	pCi/L	19.6	14.9	--	13.5	--	--	15.1

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UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- W3-01[a]

Analyte	Unit	10/10/02
Field Measurements		
Alkalinity[c]	mg/L	220
Conductivity[d]	µmhos/cm	2124
pH[d]	s.u.	7.9
Temperature[d]	C	14.2
Common Ions		
Ca[c]	mg/L	261
Chloride[c]	mg/L	75.4
Fluoride[c]	µg/L	170J
Hardness[c]	mg/L	948
K[c]	mg/L	3.42
Mg[c]	mg/L	71.9
Na[c]	mg/L	152
NH_4[c]	µg/L	4.9U
NO_3+NO_2 as N[c]	µg/L	22
SO_4[c]	mg/L	965
TDS[d]	mg/L	1800
Metals		
As[c]	µg/L	1.1
Fe[c]	µg/L	0.8U
Mn[c]	µg/L	26
Mo[c]	µg/L	10
Se[c]	µg/L	10
U[c]	µg/L	128
V[c]	µg/L	26.5
Radiological		
Alpha[d,e]	pCi/L	89.6
Alpha-U[d,f]	pCi/L	3.6
Beta[d]	pCi/L	11.6U
U[c]	µg/L	128
U-234[d]	pCi/L	39.4
U-238[d]	pCi/L	46.6

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U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- Seep 1[a]

Analyte	Unit	04/18/01	07/11/01	10/09/01	01/31/02	02/19/02	04/03/02
Field Measurements							
Alkalinity[c]	mg/L	200	299	300	329	340	--
Conductivity[d]	µmhos/cm	2520	2850	2250	1882	2100	2029
pH[d]	s.u.	6.82	6.98	7.19	7.33	7.61	7.21
Temperature[d]	C	10.8	18.8	13.5	0.72	4.6	7.43
Common Ions							
Ca[c]	mg/L	307	237	166	147	--	144
Chloride[c]	mg/L	159	119	125	108	--	107
Fluoride[c]	µg/L	334	1450	1260	696	--	814
Hardness[c]	mg/L	1040	812	560	497	--	490
K[c]	mg/L	12.1	10.4	8.78	6.92	--	7.37
Mg[c]	mg/L	66.1	53.4	35.3	31.5	--	31.7
Na[c]	mg/L	162	410	297	251	--	244
NH_4[c]	µg/L	--	--	--	361	--	--
NO_3+NO_2 as N[c]	µg/L	6540	55	7.3U	92	69.9	49.3
SO_4[c]	mg/L	442J	1150	762	619	--	571
TDS[d]	mg/L	--	2260	--	1460	--	--
Metals							
As[c]	µg/L	17.6	0.83	3.1	0.6U	0.6U	0.31
Fe[c]	µg/L	1U	23.7	612J	13.7	177	1U
Mn[c]	µg/L	0.10U	553	310	323	278	231
Mo[c]	µg/L	18.9	7	7.3	4.3	6.4	7.5
Se[c]	µg/L	118	0.3U	0.3U	9.9	8.7	5.9
U[c]	µg/L	282	101	82.2	127	113	112
V[c]	µg/L	494	1.4	0.4	0.4U	1.6	0.3U
Radiological							
Alpha[d,e]	pCi/L	--	79.8J	--	68.2	--	--
Alpha-U[d,f]	pCi/L	--	3.1J	--	0[g]	--	--
Beta[d]	pCi/L	--	29.7	--	9.6U	--	--
U[c]	µg/L	282	101	82.2	127	113	112
U-234[d]	pCi/L	98.0	42.4J	--	43.1	--	--
U-238[d]	pCi/L	104	34.3	--	42.5	--	--

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- Deer Draw[a]

Analyte	Unit	08/28/00
Metals		
As[c]	µg/L	2.4
Fe[c]	µg/L	449
Mn[c]	µg/L	49.6
Mo[c]	µg/L	20.4
Se[c]	µg/L	1.5
U[c]	µg/L	17.9
V[c]	µg/L	11
Radiological		
U[c]	µg/L	17.9
U-234[c]	pCi/L	5.8
U-235[c]	pCi/L	0.32U
U-238[c]	pCi/L	5.7

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U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- W3-02[a]

Analyte	Unit	10/10/02
Field Measurements		
Alkalinity[c]	mg/L	288
Conductivity[d]	µmhos/cm	1822
pH[d]	s.u.	7.75
Temperature[d]	C	11.2
Common Ions		
Ca[c]	mg/L	235
Chloride[c]	mg/L	68.2
Fluoride[c]	µg/L	226J
Hardness[c]	mg/L	828
K[c]	mg/L	8.40
Mg[c]	mg/L	58.5
Na[c]	mg/L	103
NH_4[c]	µg/L	4.9U
NO_3+NO_2 as N[c]	µg/L	221
SO_4[c]	mg/L	704
TDS[d]	mg/L	1440
Metals		
As[c]	µg/L	10
Fe[c]	µg/L	0.8U
Mn[c]	µg/L	76.4
Mo[c]	µg/L	20.3
Se[c]	µg/L	69.3
U[c]	µg/L	251
V[c]	µg/L	299
Radiological		
Alpha[d,e]	pCi/L	137
Alpha-U[d,f]	pCi/L	0[g]
Beta[d]	pCi/L	48.0
U[c]	µg/L	251
U-234[d]	pCi/L	76.0
U-238[d]	pCi/L	92.0

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- SW92-05[a]

Analyte	Unit	November 1992 -- December 1996[b] Minimum	Maximum	Average	Median	FOD	10/17/97	10/13/98
Field Measurements								
Alkalinity[c]	mg/L	123	2267	402	246	12/12	222	151
Conductivity[d]	µmhos/cm	800	1981	1550	1670	12/12	1663	1153
pH[d]	s.u.	7.20	8.67	8.01	8.03	12/12	7.81	8.29
Temperature[d]	C	4.5	17.9	8.15	6.95	12/12	6.6	10.2
Common Ions								
Ca[d]	mg/L	120	352	282	324	13/13	303	203
Ca[c]	mg/L	219	352	319	347	5/5	300	196
Chloride[c]	mg/L	5.52	57.6	14.6	12.3	13/13	9.49	4.61
Fluoride[c]	µg/L	88.6	162	120	111	13/13	191	274J
Hardness[d]	mg/L	379	1130	892	1020	13/13	934	627
Hardness[c]	mg/L	684	1090	989	1070	5/5	926	608
K[d]	mg/L	1.27	4.70J	2.88	3.32	13/13	2.75	2.76J
K[c]	mg/L	1.05U	3.30J	2.55	2.94	4/5	2.68	2.68J
Mg[d]	mg/L	19.2	61.7	45.7	50	13/13	43.1	29.1
Mg[c]	mg/L	33.4	52.9	47.2	50.2	5/5	43.0	28.8
Na[d]	mg/L	19.1	70.1J	43.4	41.8	13/13	33.4	19.0
Na[c]	mg/L	34.5	40.1	37	36.4	5/5	33.3	16.9
NO_3+NO_2 as N[c]	µg/L	114	2010	695	446	9/9	308	85.0
SO_4[c]	mg/L	254	913	680	791	13/13	674	480
TDS[d]	mg/L	594	1760	1330	1490	13/13	1320	900
Metals								
As[d]	µg/L	0.44U	18.8J	4.61	2.5	7/13	2.6J	1.1U
As[c]	µg/L	0.44U	13.8	2.67	0.5	1/6	2.2UJ	1.0U
Mn[d]	µg/L	57.8	646	223	144	13/13	137	17.8
Mn[c]	µg/L	120	459	195	144	6/6	129	13.1J
Mo[d]	µg/L	0.56U	27.8J	10.2	7.8	7/13	2.5	2.9J
Mo[c]	µg/L	2.3J	25.8J	9.52	5.1	5/6	2.6	3.0J
Se[d]	µg/L	1.0U	9.0	2.64	1.4	7/13	2.2U	1.1U
Se[c]	µg/L	1.0UJ	10.3	2.67	1.15	3/6	2.2U	1.0U
U[d]	µg/L	12.0	202	71.8	48.6	10/10	21.7	4.4J
U[c]	µg/L	29.7	93.1	61.4	61.4	2/2	20.8	4.4J
V[d]	µg/L	3.2J	446	121	48.8	10/13	1.2J	2.5J
V[c]	µg/L	2.3J	382	67	3	3/6	1.8J	2.0U
Radiological								
Alpha[c,e]	pCi/L	15.1U	162	34.4	25.5	4/13	10.4U	8.7U
Alpha-U[c,f]	pCi/L	0[g]	152	27.5	15.5	4/13	10.4U	8.7U
Beta[c]	pCi/L	10.2U	48.6U	16.1	16	1/13	10.1U	9.6U
U[d]	µg/L	12.0	202	71.8	48.6	10/10	21.7	4.4J
U[c]	µg/L	29.7	93.1	61.4	61.4	2/2	20.8	4.4J

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- Seep 2[a]

Analyte	Unit	04/18/01	07/11/01	10/09/01	01/31/02	02/19/02	04/03/02	10/10/02
Field Measurements								
Alkalinity[c]	mg/L	292	340	286	305	311	364	310
Conductivity[d]	µmhos/cm	2580	1909	1844	1697	1880	1990	2685
DO[d]	mg/L	--	--	--	7.15	--	--	--
pH[d]	s.u.	7.02	6.68	6.78	6.97	7.08	7.03	7.74
Temperature[d]	C	9.7	19.5	15.3	3.31	4.1	7.49	18.83
Common Ions								
Ca[c]	mg/L	324	223	245	251	--	259	328
Chloride[c]	mg/L	170	77.4	61.1	67.1	--	67.6	86.2
Fluoride[c]	µg/L	324	448	473	221	--	230	25.1UJ
Hardness[c]	mg/L	1090	752	810	838	--	872	1140
K[c]	mg/L	11.2	12.6	11.6	9.27	--	10.3	1.29
Mg[c]	mg/L	67.8	47.5	48.2	51.4	--	54.7	77.1
Na[c]	mg/L	164	143	112	94.6	--	103	161
NH_4[c]	µg/L	--	--	--	4.2U	--	--	34.8
NO_3+NO_2 as N[c]	µg/L	7240	3590	1890	1860	1800	2160	24.8
SO_4[c]	mg/L	448J	622	687	674	--	647	1220
TDS[d]	mg/L	--	1460	--	1460	--	--	--
Metals								
As[c]	µg/L	16.3	18.5	17.7	16.2	13.1	16.2	0.24
Fe[c]	µg/L	14	43.9	14J	0.8U	4.6	1U	0.8U
Mn[c]	µg/L	0.1U	2.6	5	0.1U	1.2	1	19.5
Mo[c]	µg/L	20.3	24.8	25.8	17	18.4	23.9	1.7U
Se[c]	µg/L	120	144	114	86.4	97.3	86	2
U[c]	µg/L	272	185	227	297	313	323	175
V[c]	µg/L	456	564	537	369	388	431	5.3
Radiological								
Alpha[d,e]	pCi/L	--	76.8J	--	168	--	--	--
Alpha-U[d,f]	pCi/L	--	0[g]	--	0[g]	--	--	--
Beta[d]	pCi/L	--	39.7	--	10U	--	--	--
U[c]	µg/L	272	185	227	297	313	323	175
U-234[d]	pCi/L	92.3	65.0J	--	90.5	--	--	--
U-238[d]	pCi/L	101	65.4	--	103	--	--	--

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- Wetland 3[a]

Analyte	Unit	02/19/02
Field Measurements		
Alkalinity[c]	mg/L	112
Conductivity[d]	µmhos/cm	1280
pH[d]	s.u.	7.46
Temperature[d]	C	2.7
Common Ions		
NO_3+NO_2 as N[c]	µg/L	167
Metals		
As[c]	µg/L	1.1
Fe[c]	µg/L	13.5
Mn[c]	µg/L	308
Mo[c]	µg/L	3.8
Se[c]	µg/L	17.9
U[c]	µg/L	76.8
V[c]	µg/L	27.6
Radiological		
U[c]	µg/L	76.8

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity
U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- Seep 5215[a]

Analyte	Unit	04/14/00	07/17/00	09/14/00	10/20/00
Field Measurements					
Alkalinity[c]	mg/L	405	--	--	520
Conductivity[d]	µmhos/cm	5550	--	--	6860
pH[d]	s.u.	6.95	--	--	8.15
Temperature[d]	C	6.7	--	--	20.9
Common Ions					
Ca[c]	mg/L	--	367	--	487
Chloride[c]	mg/L	--	--	--	147
Fluoride[c]	µg/L	--	--	--	274
Hardness[c]	mg/L	--	1960	--	2060
K[c]	mg/L	--	2.63	--	5.40
Mg[c]	mg/L	--	254	--	206
Na[c]	mg/L	--	1490	--	1170
NO_3+NO_2 as N[c]	µg/L	81900	--	--	54100
SO_4[c]	mg/L	--	--	--	3610
Metals					
As[c]	µg/L	0.7	0.5	--	0.86
Fe[c]	µg/L	7.4U	9.2	--	11.7U
Mn[c]	µg/L	8.1	41.5	--	448
Mo[c]	µg/L	1320	1820	--	1430
Se[c]	µg/L	16.7	17.5	--	24.4
U[c]	µg/L	824	1160	--	1050
V[c]	µg/L	0.4U	6.1	--	1.5
Radiological					
Alpha[d,e]	pCi/L	--	--	--	609J
Alpha[c,e]	pCi/L	--	--	15.9	--
Alpha-U[d,f]	pCi/L	--	--	--	0[g]
Alpha-U[c,f]	pCi/L	--	--	0[g]	--
Beta[d]	pCi/L	--	--	--	337
Beta[c]	pCi/L	--	--	7.6U	--
U[c]	µg/L	824	1160	--	1050
U-234[d]	pCi/L	325	374	--	358
U-234[c]	pCi/L	--	--	10.8	--
U-235[d]	pCi/L	12.4	18.0	--	--
U-235[c]	pCi/L	--	--	0.45U	--
U-238[d]	pCi/L	327	373	--	375
U-238[c]	pCi/L	--	--	9.6	--

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- W3-04[a]

Analyte	Unit	10/10/02
Field Measurements		
Alkalinity[c]	mg/L	182
Conductivity[d]	µmhos/cm	2019
pH[d]	s.u.	8
Temperature[d]	C	14
Common Ions		
Ca[c]	mg/L	231
Chloride[c]	mg/L	82.2
Fluoride[c]	µg/L	25.1UJ
Hardness[c]	mg/L	878
K[c]	mg/L	6.15
Mg[c]	mg/L	73.1
Na[c]	mg/L	145
NH_4[c]	µg/L	15.1
NO_3+NO_2 as N[c]	µg/L	19.5
SO_4[c]	mg/L	928
TDS[d]	mg/L	1690
Metals		
As[c]	µg/L	3.7
Fe[c]	µg/L	0.8U
Mn[c]	µg/L	84.1
Mo[c]	µg/L	14.9
Se[c]	µg/L	31.4
U[c]	µg/L	196
V[c]	µg/L	97.1
Radiological		
Alpha[d,e]	pCi/L	134
Alpha-U[d,f]	pCi/L	4.1
Beta[d]	pCi/L	11.7U
U[c]	µg/L	196
U-234[d]	pCi/L	56.7
U-238[d]	pCi/L	73.2

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- W3-03[a]

Analyte	Unit	10/10/02
Field Measurements		
Alkalinity[c]	mg/L	163
Conductivity[d]	µmhos/cm	2181
pH[d]	s.u.	8.17
Temperature[d]	C	14.2
Common Ions		
Ca[c]	mg/L	240
Chloride[c]	mg/L	91.1
Fluoride[c]	µg/L	198J
Hardness[c]	mg/L	933
K[c]	mg/L	5.85
Mg[c]	mg/L	81.1
Na[c]	mg/L	163
NH_4[c]	µg/L	5.8
NO_3+NO_2 as N[c]	µg/L	23
SO_4[c]	mg/L	1030
TDS[d]	mg/L	1830
Metals		
As[c]	µg/L	2.5
Fe[c]	µg/L	0.8U
Mn[c]	µg/L	148
Mo[c]	µg/L	15.6
Se[c]	µg/L	37.1
U[c]	µg/L	200
V[c]	µg/L	55.8
Radiological		
Alpha[d,e]	pCi/L	129
Alpha-U[d,f]	pCi/L	0[g]
Beta[d]	pCi/L	41.3
U[c]	µg/L	200
U-234[d]	pCi/L	67.5
U-238[d]	pCi/L	72.7

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected; value is sample detection limit. *UJ = Not detected, associated value is estimated.*
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]*Gross alpha minus uranium activity.* Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

On-Site -- SW00-02[a]

Analyte	Unit	04/18/00	07/17/00	10/20/00	01/30/01	04/17/01	07/12/01	10/08/01	01/31/02	04/10/02	10/09/02
Field Measurements											
Alkalinity[c]	mg/L	208	145	328	264	126	230	185	278	278	138
Conductivity[d]	µmhos/cm	1444	1474	1629	2030	1601	1475	1624	1482	1624	1605
DO[d]	mg/L	--	--	--	--	--	--	--	11.85	--	--
pH[d]	s.u.	8.09	7.87	7.93	7.6	7.92	7.86	7.9	7.91	8.26	8.17
Temperature[d]	C	5.5	24.1	12.2	1.8	18.6	21.4	17.1	0.24	6.8	18
Common Ions											
Ca[c]	mg/L	234	246	277	301	228	217	248	247	243	201
Chloride[c]	mg/L	20.6	15.6	19.4	39.9	47.5	24.3	24.7	28.6	24.5	45.9
Fluoride[c]	µg/L	164	162	178	202	276	197	205	131	124	178J
Hardness[c]	mg/L	758	817	902	990J	767	724	842	814	826	732
K[c]	mg/L	2.27	2.79	2.92	2.72	2.61	3.16	3.49	2.71	2.85	4.71
Mg[c]	mg/L	42.2	49.2	51.0	58.0J	48.0	44.2	54.1	47.8	53.3	55.8
Na[c]	mg/L	42.6	44.9	47.9	60.4	68.4	63.8	63.5	51.6	62.7	91.3
NH_4[c]	µg/L	--	--	--	--	--	--	--	15.7	--	4.9U
NO_3+NO_2 as N[c]	µg/L	361	46.6	730	874	1220	131	168	327	166	15.6
SO_4[c]	mg/L	577	720	661	836	311	596	724	624	625	750
TDS[d]	mg/L	1110	1310	1320	1610	1280	1180	1320	1300	1320	1220
Metals											
As[c]	µg/L	0.2U	0.3U	0.24	0.48	1.1	2.8	2.9	1.3	1.7	1.9
Fe[c]	µg/L	7.4U	9.1U	11.7U	11U	1.0U	14.6	16.4J	0.8U	1U	0.8U
Mn[c]	µg/L	73.4	12.6	88.2	19.7	95.2	26.1	13.3	100	62.8	26.1
Mo[c]	µg/L	3	2.6	4.1	6.1	12	6.7	2.9	1.5U	2	7.1
Se[c]	µg/L	2.7	1.9	4.1	7.5	8.9	8.9	8.9	3.4	4.3	12.1
U[c]	µg/L	18.4	14.3	23.7	44.8	44.3	38.2	42.2	31.6	30.3	79.5
V[c]	µg/L	4.1	1.8	2.3	12.2	20.6	70.5	89.4	24	32.8	53.2
Radiological											
Alpha[d,e]	pCi/L	10.7U	15.0J	12.2J	20.7	15.4	18.7J	20.5J	16.9	17.7	43.0
Alpha-U[d,f]	pCi/L	10.7U	5.2J	0[g]	0[g]	0[g]	0[g]	0[g]	0[g]	0[g]	0[g]
Beta[d]	pCi/L	13.0	12.8U	9.9	9.3U	18.4	10.1U	11.6U	5.1U	11.5	11.1
U[c]	µg/L	18.4	14.3	23.7	44.8	44.3	38.2	42.2	31.6	30.3	79.5
U-234[d]	pCi/L	--	--	9.0	16.4	17.3	16.3J	14.2	12.2	11.6	23.9
U-238[d]	pCi/L	--	--	8.9	15.4	21.5	13.0	15.9	11.0	10.5	28.2

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

Cross Gradient -- Pehrson Seep[a]

Analyte	Unit	02/20/02
Field Measurements		
Conductivity[d]	µmhos/cm	9320
pH[d]	s.u.	8.36
Temperature[d]	C	1.8
Common Ions		
NO_3+NO_2 as N[c]	µg/L	1150
Metals		
As[c]	µg/L	1
Fe[c]	µg/L	12.1
Mn[c]	µg/L	75.5
Mo[c]	µg/L	1.5U
Se[c]	µg/L	3.9
U[c]	µg/L	16.3
V[c]	µg/L	2
Radiological		
U[c]	µg/L	16.3

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

Downstream -- W-4[a]

Analyte	Unit	November 1992 – December 1996[b]					10/14/97	04/22/98	10/13/98	01/28/99	04/12/99
		Minimum	Maximum	Average	Median	FOD					
Field Measurements											
Alkalinity[c]	mg/L	147	333	236	247	11/11	209	175	84	178	182
Conductivity[d]	µmhos/cm	823	1957	1490	1640	11/11	1608	976	1166	1639	1520
pH[d]	s.u.	6.85	8.54	7.93	8	11/11	8.32	8.26	8.33	7.71	7.78
Temperature[d]	C	4.4	12.2	8.45	7.7	11/11	9.8	11.6	9.9	3.3	18.8
Common Ions											
Ca[d]	mg/L	121	349	261	277	13/13	296	162	200	--	266
Ca[c]	mg/L	221	348	282	279	4/4	301	155	171	254	249
Chloride[c]	mg/L	8.00	55.0	21.9	18.1	13/13	10.8	13.5	11.3	26.7	12.7
Fluoride[c]	µg/L	75.0	267	133	110	13/13	194	167	221J	165J	166J
Hardness[d]	mg/L	382	1100	832	910	13/13	913	505	621	--	838
Hardness[c]	mg/L	698	1090	882	869	4/4	928	486	534	811	797
K[d]	mg/L	1.65	14.4	4.17	3.57	13/13	3.00	1.98J	3.25J	--	2.92J
K[c]	mg/L	1.75J	3.84J	2.73	2.66	4/4	2.95	1.92J	2.96J	3.47J	2.88J
Mg[d]	mg/L	19.4	54.6	43.7	48.9	13/13	42.2	24.5	29.6	--	42.2
Mg[c]	mg/L	35.4	53.0	43.1	41.9	4/4	42.8	24.1	26.1	43.0	42.6
Na[d]	mg/L	23.6	170	60.2	52.8	13/13	35.6	31.6	38.8	--	42.2
Na[c]	mg/L	42.4	47.2	45.6	46.4	4/4	36.1	30.6	38.1	64.1	42.2
NO_3+NO_2 as N[c]	µg/L	97.6	1880	804	538	9/9	260	199	180	751J	390
SO_4[c]	mg/L	245	901	643	724	13/13	689	381	495	702	631
TDS[d]	mg/L	588	1640	1300	1500	13/13	1310	778	912	1300	1630
Metals											
As[d]	µg/L	1.0U	15.1J	5.17	3.2	9/13	2.2UJ	1.1U	1.1U	--	1.1U
As[c]	µg/L	1.0	16.0	5.97	1.45	6/6	3.3J	1.0U	1.0U	0.30J	1.0U
Fe[d]	µg/L	62.2J	467	208	190	11/11	--	--	--	--	695
Fe[c]	µg/L	5.0U	6.0U	2.75	2.75	0/4	--	--	--	--	5.0U
Mn[d]	µg/L	81.8	472	212	140	13/13	132	53.3	31.9	--	94.9
Mn[c]	µg/L	115	467	242	142	6/6	126	50.6	12.6J	95.5J	51.4
Mo[d]	µg/L	5.9	90.9	21.9	12.9	10/13	4.6	1.0U	5.2J	--	3.0J
Mo[c]	µg/L	5.8	38.1J	17.8	10.4	5/6	4.5	5.7J	5.7J	11.2J	3.6J
Se[d]	µg/L	1.1U	17.5	4.91	2.4	8/13	2.2U	1.3J	1.1J	--	1.9J
Se[c]	µg/L	1.0UJ	11.5	4.47	1.45	4/6	2.2U	1.6J	1.2J	3.0J	1.6J
U[d]	µg/L	47.7	508	139	90.4	11/11	34.1	21.3	3.9J	--	20.2
U[c]	µg/L	153	163	158	158	2/2	34.5	20.9	3.3J	25.4	19.5
V[d]	µg/L	18.3J	414	149	128	13/13	9.3	13.6J	6.3J	--	4.6J
V[c]	µg/L	14.3J	411	148	24.4	6/6	10.3	11.6J	2.8J	5.4J	2.1J
Radiological											
Alpha[d,e]	pCi/L	--	--	--	--	--	--	--	--	--	11.4UJ
Alpha[c,e]	pCi/L	29.5	350	90.3	71	12/13	11.4	13.4	8.5U	15.5	11.5UJ
Alpha-U[d,f]	pCi/L	--	--	--	--	--	--	--	--	--	11.4UJ
Alpha-U[c,f]	pCi/L	0[g]	53.0U	12	5.3	12/13	0[g]	6.0	8.5U	0[g]	11.5UJ
Beta[d]	pCi/L	--	--	--	--	--	--	--	--	--	11.7U
Beta[c]	pCi/L	12.0	79.0	31.1	25.4	8/13	11.0U	6.2U	9.6U	11.4U	12.9U
U[d]	µg/L	47.7	508	139	90.4	11/11	34.1	21.3	3.9J	--	20.2
U[c]	µg/L	153	163	158	158	2/2	34.5	20.9	3.3J	25.4	19.5
U-234[c]	pCi/L	18.0	148	45.8	32.6	13/13	--	1.0U	--	--	--
U-235[c]	pCi/L	0.73U	2.7UJ	1.35	1.2	7/11	--	0.40U	--	--	--
U-238[c]	pCi/L	19.0	160	44.8	29.1	13/13	--	7.4	--	--	--

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

Downstream -- SW01-01[a]

Analyte	Unit	01/30/01	04/17/01	07/12/01	10/09/01	01/30/02	04/10/02
Field Measurements							
Alkalinity[c]	mg/L	265	155	213	190	247	257
Conductivity[d]	µmhos/cm	1978	1624	1408	1400	1563	1607
DO[d]	mg/L	--	--	--	--	9.85	--
pH[d]	s.u.	8.23	8.15	7.93	7.94	7.73	7.84
Temperature[d]	C	0.8	21.1	21.7	12.8	-0.3	6.7
Common Ions							
Ca[c]	mg/L	289	203	199	209	291	239
Chloride[c]	mg/L	38.8	49.0	23.8	25.3	27.8	24.4
Fluoride[c]	µg/L	175	227	211	269	161J	130
Hardness[c]	mg/L	956J	705	681	687	960	825
K[c]	mg/L	2.75	2.85	2.84	5.23	3.08	2.73
Mg[c]	mg/L	56.9J	48.2	44.7	40.0	56.7	55.3
Na[c]	mg/L	60.6	72.7	63.4	46.0	61.1	60.1
NH_4[c]	µg/L	--	--	--	--	14.5	--
NO_3+NO_2 as N[c]	µg/L	764	967	39.1	595	385	81
SO_4[c]	mg/L	825	317	595	576	674	633
TDS[d]	mg/L	1570	1480	1140	1070	1560	1290
Metals							
As[c]	µg/L	0.57	1.3	2.3	2.2	1.5	1.5
Fe[c]	µg/L	11U	1.0U	5	18.9J	29.7	1U
Mn[c]	µg/L	64.2	23.9	3.8	6.8	21.2	10
Mo[c]	µg/L	7.6	16	4.4	1.9U	1.5U	1.8U
Se[c]	µg/L	7.4	10	8.1	3.9	4	3.9
U[c]	µg/L	48.1	48.2	37.1	27.1	39.5	31.4
V[c]	µg/L	10.6	29.7	59.1	47	28.2	24.7
Radiological							
Alpha[d,e]	pCi/L	25.7	19.4	15.9J	16.3J	25.3	20.4
Alpha-U[d,f]	pCi/L	0[g]	0[g]	0[g]	0[g]	0[g]	0[g]
Beta[d]	pCi/L	10.2	12.5	9.3U	9.0U	9.4U	11.2
U[c]	µg/L	48.1	48.2	37.1	27.1	39.5	31.4
U-234[d]	pCi/L	22.4	18.3	13.0J	11.2	15.4	13.0
U-238[d]	pCi/L	16.6	20.6	12.5	9.9	14.0	10.9

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

Downstream -- SW00-03[a]

Analyte	Unit	04/18/00	07/17/00
Field Measurements			
Alkalinity[c]	mg/L	209	143
Conductivity[d]	µmhos/cm	1515	1487
pH[d]	s.u.	8.08	7.87
Temperature[d]	C	6.3	21.8
Common Ions			
Ca[c]	mg/L	237	230
Chloride[c]	mg/L	24.5	24.9
Fluoride[c]	µg/L	162	190
Hardness[c]	mg/L	775	780
K[c]	mg/L	2.41	3.62
Mg[c]	mg/L	44.5	49.9
Na[c]	mg/L	49.3	59.3
NO_3+NO_2 as N[c]	µg/L	327	32.4U
SO_4[c]	mg/L	613	704
TDS[d]	mg/L	1170	1300
Metals			
As[c]	µg/L	0.2U	0.39
Fe[c]	µg/L	7.4U	9.1U
Mn[c]	µg/L	76.1	49.2
Mo[c]	µg/L	3.7	0.3U
Se[c]	µg/L	7.1	3.9
U[c]	µg/L	33.8	45.1
V[c]	µg/L	3	2.6
Radiological			
Alpha[d,e]	pCi/L	10.8	29.8J
Alpha-U[d,f]	pCi/L	0[g]	0[g]
Beta[d]	pCi/L	11.9	23.3
U[c]	µg/L	33.8	45.1

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

Downstream -- SW92-06[a]

Analyte	Unit	November 1992 – December 1996[b]												
		Minimum	Maximum	Average	Median	FOD	10/16/97	04/21/98	10/13/98	01/27/99	04/12/99	07/27/99	10/12/99	01/13/00
Field Measurements														
Alkalinity[c]	mg/L	126	418	248	258	11/11	228	121	132	184	153	144	164	221
Conductivity[d]	µmhos/cm	945	2040	1440	1350	11/11	1715	1049	1172	1726	1568	1310	1331	1370
pH[d]	s.u.	7.08	9.6	7.98	7.82	11/11	7.81	8.08	8.26	8.37	7.23	8.68	--	8
Temperature[d]	C	3.0	14.2	6.97	5.35	10/10	10.5	16.0	15.8	2.2	17.6	26.5	19.2	3.2
Common Ions														
Ca[d]	mg/L	130	340	243	266	12/12	301	169	129	--	--	199	186	--
Ca[c]	mg/L	228	337	296	324	3/3	305	163	123	260	223	190	224	219
Chloride[c]	mg/L	12.7	67.5	28.1	22.7	12/12	18.4	14.0	75.7	38.6	16.1	25.5	17.8	15.1
Fluoride[c]	µg/L	73.1	201	128	108	12/12	200	175	201J	213	158J	194J	253	137
Hardness[d]	mg/L	414	1080	784	867	12/12	942	534	424	--	--	656	612	--
Hardness[c]	mg/L	724	1070	935	1010	3/3	954	521	404	832	731	629	743	714
K[d]	mg/L	1.92	10.2	4.13	3.6	12/12	3.52	2.13J	8.47	--	--	4.10J	2.88	--
K[c]	mg/L	2.01J	4.20	3.42	4.04	3/3	3.57	2.11J	7.44	3.81J	3.28J	4.00J	3.55	3.15
Mg[d]	mg/L	21.8	56.7	43	49	12/12	46.3	27.3	24.7	--	--	38.6	35.9	--
Mg[c]	mg/L	37.6	54.4	47.3	50	3/3	46.8	27.8	23.5	44.4	42.2	37.5	44.7	40.6
Na[d]	mg/L	35.1	159	69.1	61	12/12	52.2	37.7	88.7	--	--	51.8	33.7	--
Na[c]	mg/L	54.7	58.0	55.8	54.8	3/3	52.1	38.0	86.4	74.0	48.8	48.9	42.4	42.7
NO_3+NO_2 as N[c]	µg/L	79.0	1480	643	569	7/7	273	157	149	728J	55.1J	112J	92.9	537J
SO_4[c]	mg/L	264	906	604	664	12/12	709	419	347	720	638	550	669	525
TDS[d]	mg/L	652	1620	1260	1390	12/12	1390	835	790	1350	1190	1060	1200	1140
Metals														
As[d]	µg/L	1.0U	6.6J	2.38	1.5	6/12	2.2UJ	1.1U	2.6J	--	--	1.6J	0.44U	--
As[c]	µg/L	1.0U	8.5J	2.8	1.1	2/4	2.2UJ	1.0U	1.9J	0.50J	1.0U	1.2J	0.78	0.4U
Fe[d]	µg/L	70.5J	526	321	343	10/10	--	--	--	--	--	126	329	--
Fe[c]	µg/L	5.0U	6.0U	2.75	2.75	0/2	--	--	--	--	5.0U	5.9U	9U	8.9U
Mn[d]	µg/L	126	616	238	189	12/12	137	96.5	126	--	--	31.6J	50.6	--
Mn[c]	µg/L	97.7	601	266	184	4/4	126	80.3	89.9	135J	87.3	6.1J	68.7	74.5
Mo[d]	µg/L	8.6J	52.8	19.3	13.5	8/12	8.3	1.0U	7.8J	--	--	5.4J	3.1	--
Mo[c]	µg/L	11.8J	45.0J	19	12	3/4	8.7	6.1J	7.0J	12.8J	5.9J	4.1J	2.5	1.6
Se[d]	µg/L	1.0U	8.7J	2.5	1.3	4/12	2.2U	1.2J	1.1U	--	--	1.8J	1.8	--
Se[c]	µg/L	1.0UJ	9.8	4	2.85	3/4	2.2U	1.4J	1.0U	3.0J	2.1J	2.0J	1.8	2.4
U[d]	µg/L	61.7	436	160	121	10/10	89.6	54.2	45.9	--	--	22.3	23.2	--
U[c]	µg/L	226	226	226	226	1/1	90.2	53.1	43.6	41.5	37.1	21.7	24	28.2
V[d]	µg/L	9.1J	272	78.2	64.9	12/12	8.7	12.7J	15.4J	--	--	7.5J	6	--
V[c]	µg/L	12.5	263	77.3	16.8	4/4	8.0	9.0J	8.4J	5.9J	3.9J	7.1J	6.4	1.0U
Radiological														
Alpha[d,e]	pCi/L	--	--	--	--	--	--	--	--	--	--	14.3J	21.3J	9.6
Alpha[c,e]	pCi/L	42.2J	260	116	95	12/12	44.9	30.7	16.8	21.8	23.1J	21.5J	15.3J	--
Alpha-U[d,f]	pCi/L	--	--	--	--	--	--	--	--	--	--	0[g]	4.8J	0[g]
Alpha-U[c,f]	pCi/L	0[g]	190[h]	22.8	0	12/12	0[g]	0[g]	0[g]	0[g]	0[g]	6.6J	0[g]	--
Beta[d]	pCi/L	--	--	--	--	--	--	--	--	--	--	13.6U	12.5U	13.6
Beta[c]	pCi/L	18.6	104	35.2	29.5	8/12	28.0	11.0	14.6	11.4U	11.9	10.6U	10.4U	--
U[d]	µg/L	61.7	436	160	121	10/10	89.6	54.2	45.9	--	--	22.3	23.2	--
U[c]	µg/L	226	226	226	226	1/1	90.2	53.1	43.6	41.5	37.1	21.7	24	28.2
U-234[c]	pCi/L	24.0	133	53.6	41.8	11/11	--	19.2	--	--	--	--	--	--
U-235[c]	pCi/L	0.37U	4.9	1.67	1.6	6/9	--	0.94	--	--	--	--	--	--
U-238[c]	pCi/L	23.2	149	54.3	41	11/11	--	19.8	--	--	--	--	--	--

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.
[h]Uranium activity results were qualified as unusable ("R").

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Downstream -- SW97-01[a]

Analyte	Unit	10/16/97
Field Measurements		
Alkalinity[c]	mg/L	263
Conductivity[d]	µmhos/cm	1910
pH[d]	s.u.	7.98
Temperature[d]	C	7.6
Common Ions		
Ca[c]	mg/L	309
Chloride[c]	mg/L	33.3
Fluoride[c]	µg/L	261
Hardness[c]	mg/L	984
K[c]	mg/L	4.15
Mg[c]	mg/L	51.7
Na[c]	mg/L	76.4
SO_4[c]	mg/L	765
TDS[d]	mg/L	1550
Metals		
As[c]	µg/L	2.2UJ
Mn[c]	µg/L	177
Mo[c]	µg/L	16.4
Se[c]	µg/L	2.2U
U[c]	µg/L	164
V[c]	µg/L	4.3J
Radiological		
U[c]	µg/L	164

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

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Downstream -- Sorenson[a]

Analyte	Unit	November 1992 – December 1996[b]																						
		Minimum	Maximum	Average	Median	FOD	10/16/97	04/21/98	10/12/98	01/25/99	04/12/99	07/27/99	10/12/99	01/13/00	04/18/00	08/02/00	10/19/00	01/30/01	04/17/01	07/12/01	10/09/01	01/31/02	04/09/02	10/09/02
Field Measurements																								
Alkalinity[c]	mg/L	167	2182	432	270	11/11	259	191	161	198	177	204	234	289	224	188	298	215	166	202	207	250	375	305
Conductivity[d]	µmhos/cm	999	2170	1650	1710	12/12	1224	1240	1319	1832	1660	1427	1444	1635	1700	3240	1663	2060	1677	1551	1805	1786	1765	1959
DO[d]	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.45	--	--
pH[d]	s.u.	7.46	8.41	7.94	7.91	12/12	7.91	8.31	8.30	7.65	7.82	7.56	--	7.65	7.9	7.8	8.02	8.03	7.97	7.91	7.89	7.26	8.07	7.87
Temperature[d]	C	1.6	20.8	8.85	8.4	12/12	5.8	10.0	15.0	5.1	16.3	17.9	11.9	0	5.5	19.7	11.3	-0.1	18.1	20.4	10.1	0.2	17.7	11.6
Common Ions																								
Ca[d]	mg/L	137	332	256	266	14/14	306	197	148	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ca[c]	mg/L	228	329	293	319	6/6	312	191	136	269	240	245	255	251	257	270	273	277	200	184	233	264	235	215
Chloride[c]	mg/L	21.6	66.5	38.5	35.2	14/14	32.8	21.9	81.2	44.5	31.7	33.1	32.0	25.7	37.7	51.6	35.8	51.7	65.1	53.8	61.2	57.3	53.1	84.2
Fluoride[c]	µg/L	66.8	224	144	156	14/14	194	170	241J	285	169J	219	313	145	186	267	195	187	194	222	245	121	103	238J
Hardness[d]	mg/L	443	1080	840	885	14/14	974	627	494	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hardness[c]	mg/L	741	1060	947	1040	6/6	992	613	458	874	805	811	845	830	854	941	914	931J	701	653	810	896	838	763
K[d]	mg/L	1.53	8.20	4.47	4.51	14/14	4.07	2.49J	8.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
K[c]	mg/L	2.07J	5.34	3.89	4.22	6/6	4.14	2.41J	7.73	4.26J	3.86J	3.98J	3.75	2.93	3.02	5.46	4.12	3.35	4.19	5.97	7.46	4.06	4.48	5.77
Mg[d]	mg/L	24.6	60.8	49.1	56.2	14/14	50.9	32.9	30.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mg[c]	mg/L	41.6	58.5	52.3	56.9	6/6	51.8	33.1	28.7	49.1	50.0	48.5	50.5	49.4	51.5	64.8	56.5	58.1J	49.0	47.1	55.5	57.6	60.9	54.9
Na[d]	mg/L	44.6	165	84.9	79.5	14/14	76.0	51.6	107	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Na[c]	mg/L	68.4	101	76.6	70.7	6/6	77.6	51.7	100	92.2	81.0	73.3	67.1	62.9	72.7	117	78.9	82.6	94.6	96.8	101	97.4	99.2	162
NH_4[c]	µg/L	13.3	92.0	50	42.1	13/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	93.6	--	13.7
NO_3+NO_2 as N[c]	µg/L	223	913	453	395	10/10	433	281	267	788J	121	284J	452	643J	725	233	842	1010	870	240	982	1060	430	139
SO_4[c]	mg/L	291	895	687	745	14/14	742	499	380	779	708	658	745	628	693	909	727	826	325	573	747	744	730	745
TDS[d]	mg/L	710	1700	1380	1580	13/13	1520	1020	923	1410	1350	1340	1380	1380	1310	1680	1460	1620	1280	1160	1450	1570	1420	1580
Metals																								
As[d]	µg/L	0.44U	5.0J	1.65	1.2	4/14	2.2UJ	1.1U	2.5J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
As[c]	µg/L	0.44U	3.2J	0.977	0.5	2/7	2.2UJ	1.0U	1.8J	0.39J	1.0U	1.0U	0.85	0.4U	0.39	0.64	0.9	0.55	1.3	2.7	1	1.2	1.5	1.3
Fe[c]	µg/L	6.0U	16.0J	10.8	13.4	2/3	--	--	--	--	5.0U	5.9U	9.0U	8.9U	12.4	9.1U	11.7U	11U	9.4	23.9	56.6J	167	1U	0.8U
Mn[d]	µg/L	81.6	439	214	194	14/14	181	130	94.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mn[c]	µg/L	99.5	460	226	183	7/7	181	118	81.4	161J	125	40.1	55.8	123	117	20.8	170	174	90.1	14.2	96.5	189	165	63.9
Mo[d]	µg/L	10.6J	54.9	21.9	14.2	11/14	15.7	9.2J	11.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mo[c]	µg/L	13.5J	45.9J	21.8	15.4	7/7	15.9	8.7J	11.0	17.0J	10.9	9.8J	8.6	5.5	8.7	19	11	12.1	13.6	11	9.5	6.1	11.8	20.3
Se[d]	µg/L	1.8J	7.8J	3.18	2.6	11/14	2.2U	1.3J	1.5J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Se[c]	µg/L	1.4J	6.5	3.29	2.8	7/7	2.2U	1.5J	1.5J	3.3J	2.9J	3.0J	3.1	3.1	8.4	9.7	7.5	7.7	11.7	7.3	10.5	9.6	10	9.3
U[d]	µg/L	78.6	456	197	152	12/12	159	88.8	87.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U[c]	µg/L	138	291	191	143	3/3	163	87.0	87.6	100	107	83.1	85.3	65.8	80.5	162	87	93.9	82.5	78	114	119	107	188
V[d]	µg/L	2.8J	119	37.4	12.7	12/14	6.1J	9.6J	10.8J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V[c]	µg/L	2.4J	74.7	16.2	3	4/7	4.1J	6.3J	9.4J	4.8J	3.0J	3.6J	1.0U	1.0U	2.8	2.5	4.8	3.9	16.5	14.6	7	7.9	9	1.9
Radiological																								
Alpha[d,e]	pCi/L	--	--	--	--	--	--	--	--	--	--	--	--	21.8	44.5	87.8	42.5J	44.2	30.1	36.0J	73.4J	67.1	86.0	119
Alpha[c,e]	pCi/L	55.0J	290	140	124	14/14	43.3	55.2	35.5	50.8	59.0J	62.9J	51.2J	--	--	--	--	--	--	--	--	--	--	--
Alpha-U[d,f]	pCi/L	--	--	--	--	--	--	--	--	--	--	--	--	0[g]	0[g]	0[g]	0[g]	0[g]	0[g]	0[g]	0[g]	0[g]	9.4	0[g]
Alpha-U[c,f]	pCi/L	0[g]	53.6	16.3	10.5	14/14	0[g]	0[g]	0[g]	0[g]	0[g]	5.8J	0[g]	--	--	--	--	--	--	--	--	--	--	--
Beta[d]	pCi/L	--	--	--	--	--	--	--	--	--	--	--	--	13.0	28.7	47.7	31.7	22.1	26.0	18.7	23.7	7.7U	39.3	32.7
Beta[c]	pCi/L	26.7	118	42.8	36.4	11/14	40.0	12.1	26.2	37.8	31.5	24.4	21.5	--	--	--	--	--	--	--	--	--	--	--
U[d]	µg/L	78.6	456	197	152	12/12	159	88.8	87.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U[c]	µg/L	138	291	191	143	3/3	163	87.0	87.6	100	107	83.1	85.3	65.8	80.5	162	87	93.9	82.5	78	114	119	107	188
U-234[d]	pCi/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	31.4	33.0	31.6	26.5J	41.7	41.8	38.9	58.7
U-234[c]	pCi/L	16.5J	177	70	56	14/14	--	29.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U-235[c]	pCi/L	0.96J	3.9	2.14	2.05	9/12	--	1.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U-238[d]	pCi/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	33.0	33.4	46.5	26.2	43.5	41.0	37.7	69.1
U-238[c]	pCi/L	16.5J	174	68.7	57.5	14/14	--	33.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

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Downstream -- SW92-07[a]

Analyte	Unit	November 1992 – December 1996[b]					10/15/97	04/20/98	04/13/99	10/12/99
		Minimum	Maximum	Average	Median	FOD				
Field Measurements										
Alkalinity[c]	mg/L	175	2272	429	239	11/11	230	153	222	208
Conductivity[d]	µmhos/cm	983	2050	1560	1650	11/11	1833	1210	1727	1411
pH[d]	s.u.	7.34	8.50	7.95	7.88	11/11	8.32	8.33	7.94	--
Temperature[d]	C	1.3	14.6	9.06	10.1	11/11	11.1	15.3	10.3	12.5
Ca[d]	mg/L	137	301	218	217	12/12	289	178	--	--
Ca[c]	mg/L	152	319	249	263	4/4	292	177	246	191
Chloride[c]	mg/L	16.6	90.5	44.6	43.3	12/12	33.1	23.5	31.3	50.4
Fluoride[c]	µg/L	83.3	218	149	149	12/12	204	158	185J	219
Hardness[d]	mg/L	441	983	730	732	12/12	928	575	--	--
Hardness[c]	mg/L	509	999	805	856	4/4	937	577	818	637
K[d]	mg/L	2.08	9.91	5.14	5.29	12/12	4.24	2.90J	--	--
K[c]	mg/L	3.15J	9.31	5.22	4.21	4/4	4.23	2.91J	3.45J	5.25
Mg[d]	mg/L	24.0	56.2	44.8	48.8	12/12	50.2	31.6	--	--
Mg[c]	mg/L	31.4	55.8	44.5	45.3	4/4	50.4	32.7	49.5	38.9
Na[d]	mg/L	40.7	152	88.8	93.8	12/12	77.6	53.7	--	--
Na[c]	mg/L	70.7	94.2	81.9	81.4	4/4	77.0	54.2	76.9	74.5
NO_3+NO_2 as N[c]	µg/L	76.0	760	344	277	8/8	313	142	73.9J	307
SO_4[c]	mg/L	293	828	587	630	12/12	730	463	735	550
TDS[d]	mg/L	692	1560	1230	1250	11/11	1410	985	1360	1100
Metals										
As[d]	µg/L	0.44U	4.0U	1.75	1.5	4/12	2.2UJ	1.1U	--	--
As[c]	µg/L	0.44U	4.5J	1.9	1.5	3/5	2.3J	1.0U	1.0U	1.1
Fe[c]	µg/L	5.0U	6.0U	2.75	2.75	0/2	--	--	16.4J	9U
Mn[d]	µg/L	88.1	390	235	241	12/12	103	103	--	--
Mn[c]	µg/L	75.7	387	249	226	5/5	103	92.6	171	75.5
Mo[d]	µg/L	11.2J	53.2	20.5	15.5	9/12	15.6	11.1J	--	--
Mo[c]	µg/L	12.7J	34.4J	18.2	14.8	4/5	15.6	11.4J	9.2J	5.6
Se[d]	µg/L	1.1U	19.6J	3.9	2.25	9/12	2.2U	1.6J	--	--
Se[c]	µg/L	1.0UJ	5.1	3.08	3.2	4/5	2.2U	1.0U	2.5J	2
U[d]	µg/L	79.1	411	186	159	10/10	151	80.9	--	--
U[c]	µg/L	136	230	183	183	2/2	152	80.2	92.4	56
V[d]	µg/L	4.0J	77.0	29.8	18.6	10/12	5.8J	9.0J	--	--
V[c]	µg/L	2.3J	42.7J	10.6	3	2/5	4.9J	7.0J	1.7J	1U
Radiological										
Alpha[c,e]	pCi/L	35.0U	260	124	114	11/12	65.7	43.7	53.5J	33.0J
Alpha-U[c,f]	pCi/L	0[g]	101	12.4	0	11/12	0[g]	0[g]	0[g]	0[g]
Beta[c]	pCi/L	21.0U	130	49.7	35.3	10/12	39.2	17.1	36.1	19.4
U[d]	µg/L	79.1	411	186	159	10/10	151	80.9	--	--
U[c]	µg/L	136	230	183	183	2/2	152	80.2	92.4	56
U-234[c]	pCi/L	19.0	145	63.5	53.2	12/12	--	27.6	--	--
U-235[c]	pCi/L	0.74U	3.5U	1.96	1.95	6/10	--	1.4	--	--
U-238[c]	pCi/L	19.5	144	62.2	51.9	12/12	--	29.3	--	--

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UJ = Not detected, associated value is estimated.
[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

Downstream -- SW00-04[a]

Analyte	Unit	04/17/00	07/17/00	10/19/00	04/17/01	10/09/01	04/09/02	10/09/02
Field Measurements								
Alkalinity[c]	mg/L	197	--	--	175	208	530	224
Conductivity[d]	µmhos/cm	1549	1598	1661	1602	1680	1628	1347
pH[d]	s.u.	8.18	8.03	8.14	8.1	8.04	8.2	8.09
Temperature[d]	C	15.8	23.3	8.6	15.4	12.5	14.6	13.4
Common Ions								
Ca[c]	mg/L	222	214	239	187	202	206	119
Chloride[c]	mg/L	35.4	44.2	36.5	69.2	53.4	46.8	56.8
Fluoride[c]	µg/L	174	196	203	206	157	129	156J
Hardness[c]	mg/L	754	746	816	656	712	735	450
K[c]	mg/L	3.21	4.59	4.54	4.44	4.94	3.87	4.72
Mg[c]	mg/L	48.6	51.3	53.3	45.8	50.4	53.6	37.2
Na[c]	mg/L	73.6	96.5	84.5	98.2	97.3	94.1	122
NH_4[c]	µg/L	--	--	--	--	--	--	4.9U
NO_3+NO_2 as N[c]	µg/L	376	32.4U	467	622	147	150	41
SO_4[c]	mg/L	654	700	678	285	689	643	457
TDS[d]	mg/L	1190	1340	1350	1220	1240	1280	983
Metals								
As[c]	µg/L	0.42	0.66	0.8	0.78	0.78	1	1
Fe[c]	µg/L	7.4U	9.1U	11.7U	1U	0.8UJ	1U	47.7
Mn[c]	µg/L	117	17.6	189	159	60	230	37
Mo[c]	µg/L	8	12.5	12.5	13.7	9	8.8	7.2
Se[c]	µg/L	7.6	5.9	7.4	9.8	8.2	7.4	2.5
U[c]	µg/L	73.2	102	86.4	78.5	100	82.7	80.2
V[c]	µg/L	3.9	1.3U	2.8	8.6	2.2	3.5	1
Radiological								
Alpha[d,e]	pCi/L	46.0	55.2J	41.9J	28.9	49.4J	55.3	46.9
Alpha-U[d,f]	pCi/L	0[g]	0[g]	0[g]	0[g]	0[g]	0[g]	0[g]
Beta[d]	pCi/L	21.4	37.4	29.9	26.6	21.5	26.2	14.4
U[c]	µg/L	73.2	102	86.4	78.5	100	82.7	80.2
U-234[d]	pCi/L	--	--	30.9	28.4	34.9	28.1	23.8
U-238[d]	pCi/L	--	--	32.8	38.5	36.9	29.6	29.1

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

Downstream -- SW99-04[a]

Analyte	Unit	04/13/99	07/27/99	10/12/99	01/13/00
Field Measurements					
Alkalinity[c]	mg/L	197	78	206	262
Conductivity[d]	µmhos/cm	1595	1538	1424	1562
pH[d]	s.u.	7.64	8.27	--	7.68
Temperature[d]	C	8.8	19.2	10.0	0
Common Ions					
Ca[d]	mg/L	230	221	208	--
Ca[c]	mg/L	219	213	190	226
Chloride[c]	mg/L	30.3	36.1	48.3	29.7
Fluoride[c]	µg/L	210	193J	229	144
Hardness[d]	mg/L	762	740	694	--
Hardness[c]	mg/L	728	718	637	752
K[d]	mg/L	3.48J	4.54J	5.35	--
K[c]	mg/L	3.32J	4.48J	5.21	3.07
Mg[d]	mg/L	45.5	45.7	42.5	--
Mg[c]	mg/L	43.9	45.3	39.5	45.6
Na[d]	mg/L	76.5	83.3	78.8	--
Na[c]	mg/L	73.6	80.3	73.6	68.1
NO_3+NO_2 as N[c]	µg/L	75.6J	43.3J	297	636J
SO_4[c]	mg/L	649	564	555	564
TDS[d]	mg/L	1240	1260	1110	1280
Metals					
As[d]	µg/L	1.1U	2.0J	0.99	--
As[c]	µg/L	1.0U	1.2J	1.3	0.58
Fe[d]	µg/L	313	190	306	--
Fe[c]	µg/L	5.0U	5.9U	9.0U	8.9U
Mn[d]	µg/L	267	59.5J	114	--
Mn[c]	µg/L	246	40.5	96.7	185
Mo[d]	µg/L	10.3J	12.5J	8	--
Mo[c]	µg/L	9.3J	10.0J	6.2	6
Se[d]	µg/L	2.4J	2.2J	1.9	--
Se[c]	µg/L	2.1J	2.2J	1.9	2.8
U[d]	µg/L	91.9	87.7	61	--
U[c]	µg/L	89.5	83.0	59.2	63.8
V[d]	µg/L	2.7J	4.6J	4.3	--
V[c]	µg/L	1.8J	3.0J	1.0U	1.0U
Radiological					
Alpha[d,e]	pCi/L	51.5J	48.8J	32.2J	29.1
Alpha[c,e]	pCi/L	52.7J	63.2J	34.0J	--
Alpha-U[d,f]	pCi/L	0[g]	0[g]	0[g]	0[g]
Alpha-U[c,f]	pCi/L	0[g]	6.2J	0[g]	--
Beta[d]	pCi/L	40.0	26.7	20.8	18.0
Beta[c]	pCi/L	28.0	31.3	22.3	--
U[d]	µg/L	91.9	87.7	61	--
U[c]	µg/L	89.5	83.0	59.2	63.8

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

Downstream -- SW97-02[a]

Analyte	Unit	10/15/97
Field Measurements		
Alkalinity[c]	mg/L	231
Conductivity[d]	µmhos/cm	1816
pH[d]	s.u.	8.20
Temperature[d]	C	11.8
Common Ions		
Ca[c]	mg/L	285
Chloride[c]	mg/L	32.5
Fluoride[c]	µg/L	187
Hardness[c]	mg/L	916
K[c]	mg/L	4.22
Mg[c]	mg/L	49.7
Na[c]	mg/L	76.3
SO_4[c]	mg/L	715
TDS[d]	mg/L	1430
Metals		
As[c]	µg/L	2.2UJ
Mn[c]	µg/L	97.9
Mo[c]	µg/L	15.1
Se[c]	µg/L	2.2U
U[c]	µg/L	149
V[c]	µg/L	4.5J
Radiological		
U[c]	µg/L	149

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. *Result rounded as appropriate.*
[g]Uranium activity greater than gross alpha.

Downstream -- SW97-03[a]

Analyte	Unit	10/15/97
Field Measurements		
Alkalinity[c]	mg/L	216
Conductivity[d]	µmhos/cm	1769
pH[d]	s.u.	8.20
Temperature[d]	C	11.9
Common Ions		
Ca[c]	mg/L	276
Chloride[c]	mg/L	32.5
Fluoride[c]	µg/L	192
Hardness[c]	mg/L	889
K[c]	mg/L	4.16
Mg[c]	mg/L	48.5
Na[c]	mg/L	76.2
SO_4[c]	mg/L	697
TDS[d]	mg/L	1410
Metals		
As[c]	µg/L	2.2UJ
Mn[c]	µg/L	110
Mo[c]	µg/L	14.8
Se[c]	µg/L	2.2U
U[c]	µg/L	145
V[c]	µg/L	4.1J
Radiological		
U[c]	µg/L	145

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

Downstream -- SW97-04[a]

Analyte	Unit	10/15/97
Field Measurements		
Alkalinity[c]	mg/L	227
Conductivity[d]	µmhos/cm	1768
pH[d]	s.u.	8.25
Temperature[d]	C	11.6
Common Ions		
Ca[c]	mg/L	276
Chloride[c]	mg/L	32.6
Fluoride[c]	µg/L	200
Hardness[c]	mg/L	889
K[c]	mg/L	4.18
Mg[c]	mg/L	48.6
Na[c]	mg/L	76.3
SO_4[c]	mg/L	694
TDS[d]	mg/L	1380
Metals		
As[c]	µg/L	2.2UJ
Mn[c]	µg/L	102
Mo[c]	µg/L	15.0
Se[c]	µg/L	2.2U
U[c]	µg/L	146
V[c]	µg/L	3.4J
Radiological		
U[e]	µg/L	146

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

Downstream -- SW92-08[a]

Analyte	Unit	November 1992 – December 1996[b]														
		Minimum	Maximum	Average	Median	FOD	10/15/97	10/12/98	04/13/99	10/12/99	04/17/00	10/19/00	04/17/01	10/10/01	04/09/02	10/10/02
Field Measurements																
Alkalinity[c]	mg/L	151	322	237	237	10/10	242	166	206	200	172	250	155	233	223	253
Conductivity[d]	µmhos/cm	944	1940	1460	1480	10/10	1650	1316	1600	1428	1497	1622	1472	1655	1533	1335
pH[d]	s.u.	7.82	9.05	8.23	8.16	10/10	8.2	8.48	7.82	--	8.31	10.78	8.33	8.34	8.75	8.13
Temperature[d]	C	1.3	17.2	7.65	5.9	10/10	4.1	11.9	8.2	7.4	16	6.8	15.9	7.3	14.3	4.4
Common Ions																
Ca[d]	mg/L	127	264	197	201	10/10	287	144	--	--	--	--	--	--	--	--
Ca[c]	mg/L	158	282	218	214	3/3	286	135	216	189	204	231	157	199	185	134
Chloride[c]	mg/L	16.5	89.2	46	44.8	10/10	33.4	77.0	31.6	50.1	37.8	34.8	74.4	53.9	47.0	52.2
Fluoride[c]	µg/L	75.5	243	142	132	10/10	197	250J	189J	255	190	209	194	171	155	295J
Hardness[d]	mg/L	412	885	663	695	10/10	918	484	--	--	--	--	--	--	--	--
Hardness[c]	mg/L	528	915	716	704	3/3	913	453	723	635	703	783	559	696	666	471
K[d]	mg/L	1.82	9.10	5.01	4.93	10/10	4.11	7.94	--	--	--	--	--	--	--	--
K[c]	mg/L	2.54J	8.97	5.46	4.87	3/3	4.04	7.33	3.53J	5.23	3.28	4.41	4.93	5.20	4.02	4.18
Mg[d]	mg/L	23.0	54.8	41.6	43.6	10/10	49.0	30.3	--	--	--	--	--	--	--	--
Mg[c]	mg/L	32.5	51.2	41.7	41.3	3/3	48.2	28.1	44.7	39.5	46.9	50.1	40.6	48.3	49.6	33.1
Na[d]	mg/L	40.3	141	89.2	96.7	10/10	76.5	107	--	--	--	--	--	--	--	--
Na[c]	mg/L	74.9	96.0	88.4	94.2	3/3	76.5	100	78.7	74.8	74.6	81.5	101	94.9	95.0	102
NH_4[c]	µg/L	17.6	2430	294	52.5	10/10	--	--	--	--	--	--	--	--	--	4.9U
NO_3+NO_2 as N[c]	µg/L	19.6	1280	411	245	6/6	303	176	4.0U	227	109	282	186	7.3U	99.4	340
SO_4[c]	mg/L	279	750	519	540	10/10	699	367	629	568	630	648	242	666	601	443
TDS[d]	mg/L	686	1492	1150	1210	10/10	1380	903	1210	1100	1170	1320	1080	1210	1210	992
Metals																
As[d]	µg/L	1.0U	4.2J	2.12	1.75	5/10	2.2UJ	2.8J	--	--	--	--	--	--	--	--
As[c]	µg/L	1.0U	5.2J	2.73	2.6	3/4	2.6J	2.5J	1.0U	1.7	0.58	0.89	0.5U	0.6U	1.1	1.4
Fe[c]	µg/L	6.0U	7.1J	5.05	5.05	1/2	--	--	5.0U	9.0U	7.4U	11.7U	25.3	21.1J	49.6	35.5
Mn[d]	µg/L	60.3	350	221	216	10/10	125	67.8	--	--	--	--	--	--	--	--
Mn[c]	µg/L	97.0	333	186	158	4/4	121	52.7	276	97.8	131	123	153	14.8	300	23.1
Mo[d]	µg/L	10.2J	36.8J	20.5	18.7	8/10	13.9	12.1	--	--	--	--	--	--	--	--
Mo[c]	µg/L	13.7J	28.0J	19.5	18.2	4/4	14.1	11.8	10.0	6.5	9	11.8	12.4	7.4	7.5	13.7
Se[d]	µg/L	1.2J	3.7J	2.14	2.1	7/10	2.2U	1.5J	--	--	--	--	--	--	--	--
Se[c]	µg/L	1.0UJ	3.7J	2.35	2.6	3/4	2.2U	1.2J	2.1J	1.6	6.8	5.6	7.5	6	5.9	0.95
U[d]	µg/L	73.7	309	169	166	8/8	143	88.5	--	--	--	--	--	--	--	--
U[c]	µg/L	182	182	182	182	1/1	143	88.4	92.9	58.3	72.6	84.8	69.7	94.9	88.3	147
V[d]	µg/L	2.4J	44.0J	21.6	21	10/10	1U	11.2J	--	--	--	--	--	--	--	--
V[c]	µg/L	2.1J	27.6J	8.68	2.55	2/4	1U	9.1J	1.7J	1.0U	3.3	3	4.5	1.7	3	2.5
Radiological																
Alpha[d,e]	pCi/L	--	--	--	--	--	--	--	--	--	36.0J	41.0J	32.1	50.2J	54.4	81.0
Alpha[c,e]	pCi/L	40.0U	264	115	108	9/10	57.6	43.0	71.6J	31.9J	--	--	--	--	--	--
Alpha-U[d,f]	pCi/L	--	--	--	--	--	--	--	--	--	0[g]	0[g]	0[g]	0[g]	0[g]	0[g]
Alpha-U[c,f]	pCi/L	0[g]	264[h]	30.1	2.35	9/10	0[g]	0[g]	7.8J	0[g]	--	--	--	--	--	--
Beta[d]	pCi/L	--	--	--	--	--	--	--	--	--	19.6	29.0	23.6	22.4	28.5	27.0
Beta[c]	pCi/L	17.6	80.0	48.4	49.9	9/10	46.3	24.8	31.1	25.2	--	--	--	--	--	--
U[d]	µg/L	73.7	309	169	166	8/8	143	88.5	--	--	--	--	--	--	--	--
U[c]	µg/L	182	182	182	182	1/1	143	88.4	92.9	58.3	72.6	84.8	69.7	94.9	88.3	147
U-234[d]	pCi/L	--	--	--	--	--	--	--	--	--	--	29.3	24.8	38.3	27.5	45.6
U-238[d]	pCi/L	--	--	--	--	--	--	--	--	--	--	29.8	33.3	36.2	31.2	52.4

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.
[h]Uranium activity results were qualified as unusable ("R").

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Downstream -- SW97-05[a]

Analyte	Unit	10/15/97
Field Measurements		
Alkalinity[c]	mg/L	249
Conductivity[d]	µmhos/cm	1825
pH[d]	s.u.	8.30
Temperature[d]	C	4.5
Common Ions		
Ca[c]	mg/L	286
Chloride[c]	mg/L	34.1
Fluoride[c]	µg/L	205
Hardness[c]	mg/L	915
K[c]	mg/L	4.10
Mg[c]	mg/L	48.7
Na[c]	mg/L	76.6
SO_4[c]	mg/L	714
TDS[d]	mg/L	1420
Metals		
As[c]	µg/L	2.2UJ
Mn[c]	µg/L	112
Mo[c]	µg/L	14.5
Se[c]	µg/L	2.2U
U[c]	µg/L	142
V[c]	µg/L	1U
Radiological		
U[c]	µg/L	142

[a]*Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.*
U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

Downstream -- SW97-05E[a]

Analyte	Unit	10/22/97
Field Measurements		
Alkalinity[c]	mg/L	245
Conductivity[d]	µmhos/cm	1748
pH[d]	s.u.	7.86
Temperature[d]	C	8.0
Common Ions		
Ca[c]	mg/L	278
Chloride[c]	mg/L	33.7
Fluoride[c]	µg/L	199
Hardness[c]	mg/L	896
K[c]	mg/L	4.06
Mg[c]	mg/L	49.0
Na[c]	mg/L	77.0
SO_4[c]	mg/L	736
TDS[d]	mg/L	1380
Metals		
As[c]	µg/L	2.2UJ
Mn[c]	µg/L	78.1
Mo[c]	µg/L	15.1
Se[c]	µg/L	2.2U
U[c]	µg/L	145
V[c]	µg/L	4.2J
Radiological		
U[c]	µg/L	145

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

Downstream -- SW94-01[a]

Analyte	Unit	November 1992 – December 1996[b]											
		Minimum	Maximum	Average	Median	FOD	04/13/99	10/12/99	04/17/00	10/19/00	04/17/01	10/10/01	04/09/02
Field Measurements													
Alkalinity[c]	mg/L	262	1983	1120	1120	2/2	208	213	220	--	180	220	297
Conductivity[d]	µmhos/cm	1424	1995	1730	1780	3/3	1528	1435	1469	1625	1465	1625	1554
pH[d]	s.u.	8.06	8.33	8.16	8.1	3/3	7.81	--	8.36	10.1	8.38	8.33	8.24
Temperature[d]	C	1.6	9.2	6.1	7.5	3/3	6.8	5.9	16.2	6.1	16.1	6.9	14.3
Common Ions													
Ca[c]	mg/L	158	295	256	274	5/5	206	191	171	207	153	194	189
Chloride[c]	mg/L	32.2	88.3	52.5	44.5	6/6	38.8	50.6	59.6	36.9	78.6	54.8	49.0
Fluoride[c]	µg/L	186	334	225	207	6/6	211	214	283	208	208	166	231J
Hardness[c]	mg/L	528	973	849	906	5/5	695	640	651	722	549	679	674
K[c]	mg/L	3.46J	8.62	4.94	4.06	5/5	3.69J	5.21	4.68	4.62	4.81	5.37	4.09
Mg[c]	mg/L	32.3	57.3	50.5	53.8	5/5	43.8	39.7	54.3	49.8	40.6	47.2	49.0
Na[c]	mg/L	78.6	99.0	91	91.8	5/5	86.0	77.3	92.6	84.8	105	94.2	94.8
NO_3+NO_2 as N[c]	µg/L	7.0	1350	392	257	6/6	4.0U	98.4	32.4U	138	27.9	7.3U	61.9
SO_4[c]	mg/L	275	809	620	755	6/6	613	548	498	637	242	657	589
TDS[d]	mg/L	975	1590	1410	1450	5/5	1210	1100	1100	1290	1090	1180	1210
Metals													
As[c]	µg/L	0.44U	5.2J	1.5	0.5	2/5	1.0U	1.2	1.5	0.81	0.65	0.77	1.1
Fe[c]	µg/L	--	--	--	--	--	5.0U	9.0U	7.4	16.5	41.6	18.8J	1U
Mn[c]	µg/L	42.2	396	254	306	5/5	204	27.4	91.5	21.3	84.3	9.7	40.7
Mo[c]	µg/L	13.0J	21.5J	16.8	14.9	5/5	9.4J	6.3	7.9	12.2	11.6	8.7	9.9
Se[c]	µg/L	1.0UJ	2.4	1.58	2	3/5	1.9J	1.8	3.3	5.3	6.3	4.4	5.2
U[c]	µg/L	129	129	129	129	1/1	83.4	58.3	38.7	82.2	71.8	93.7	89.9
V[c]	µg/L	1.9J	8.1J	3.6	2.5	2/5	2.0J	1.0U	3.7	1.5	3	2.1	3
Radiological													
Alpha[d,e]	pCi/L	--	--	--	--	--	--	--	17.6J	51.2J	27.8	48.5J	48.1
Alpha[c,e]	pCi/L	40.0U	153	111	126	5/6	52.0J	29.9J	--	--	--	--	--
Alpha-U[d,f]	pCi/L	--	--	--	--	--	--	--	0[g]	0[g]	0[g]	0[g]	0[g]
Alpha-U[c,f]	pCi/L	0[g]	48.9J-	26	22.5	5/6	0[g]	0[g]	--	--	--	--	--
Beta[d]	pCi/L	--	--	--	--	--	--	--	13.5	28.4	26.8	15.7	29.7
Beta[c]	pCi/L	20.0U	49.1U	24.9	24.5	2/6	26.7	25.5	--	--	--	--	--
U[d]	µg/L	128	160	144	144	2/2	--	--	--	--	--	--	--
U[c]	µg/L	129	129	129	129	1/1	83.4	58.3	38.7	82.2	71.8	93.7	89.9
U-234[d]	pCi/L	--	--	--	--	--	--	--	--	29.1	25.7	33.5	27.6
U-238[d]	pCi/L	--	--	--	--	--	--	--	--	32.7	31.3	33.9	32.3

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

Downstream -- SW92-09[a]

Analyte	Unit	November 1992 – December 1996[b]					04/13/99	10/12/99
		Minimum	Maximum	Average	Median	FOD		
Field Measurements								
Alkalinity[c]	mg/L	151	355	240	237	10/10	146	206
Conductivity[d]	µmhos/cm	914	1928	1450	1470	10/10	1615	1427
pH[d]	s.u.	7.68	8.59	8.2	8.22	10/10	7.90	--
Temperature[d]	C	3.4	17.5	8.58	6.3	10/10	7.7	7.1
Common Ions								
Ca[d]	mg/L	125	257	195	201	10/10	--	--
Ca[c]	mg/L	158	267	212	211	3/3	210	191
Chloride[c]	mg/L	17.2	89.1	48.2	46	10/10	35.7	51.9
Fluoride[c]	µg/L	99.6	232	147	150	10/10	199J	281
Hardness[d]	mg/L	411	860	658	679	10/10	--	--
Hardness[c]	mg/L	527	913	713	698	3/3	705	640
K[d]	mg/L	1.87J	9.51	5.24	5.46	10/10	--	--
K[c]	mg/L	3.24J	8.57	6	6.2	3/3	3.52J	5.17
Mg[d]	mg/L	23.9	54.3	41.7	44.3	10/10	--	--
Mg[c]	mg/L	32.2	59.7	44.5	41.6	3/3	43.9	39.6
Na[d]	mg/L	41.6	144	91.2	99.6	10/10	--	--
Na[c]	mg/L	77.5	115	95.6	94.2	3/3	78.2	75.5
NH_4[c]	µg/L	13.3	2350	334	64.5	10/10	--	--
NO_2 as N[c]	µg/L	1.8U	11.3	6.98	7.85	3/4	--	--
NO_3 as N[c]	µg/L	23.7	662	405	468	4/4	--	--
NO_3+NO_2 as N[c]	µg/L	36.5	1300	375	193	6/6	85.8J	147
SO_4[c]	mg/L	294	748	525	540	10/10	674	570
TDS[d]	mg/L	702	1460	1140	1210	10/10	1220	1100
Metals								
As[d]	µg/L	1.0U	4.1J	1.73	1.5	3/10	--	--
As[c]	µg/L	1.0	5.0J	2.78	2.55	4/4	1.0U	0.79
Fe[d]	µg/L	10.0U	464	213	190	7/8	--	--
Fe[c]	µg/L	6.0U	9.1J	6.05	6.05	1/2	5.0U	9.0U
Mn[d]	µg/L	27.7	306	170	184	10/10	--	--
Mn[c]	µg/L	49.4	281	140	115	4/4	219	43.9
Mo[d]	µg/L	10.3J	35.8J	18.7	15	7/10	--	--
Mo[c]	µg/L	14.9J	26.9J	21.3	21.6	4/4	10.2	6.5
Se[d]	µg/L	1.9J	4.1J	2.19	2.25	7/10	--	--
Se[c]	µg/L	1.0UJ	3.8J	2.38	2.6	3/4	2.0J	1.8
U[d]	µg/L	74.0	305	167	164	8/8	--	--
U[c]	µg/L	171	171	171	171	1/1	92.2	58.4
V[d]	µg/L	2.1J	31.8J	18.2	20.1	10/10	--	--
V[c]	µg/L	2.6J	30.5J	9.53	2.8	2/4	1.8J	1.0U
Radiological								
Alpha[c,e]	pCi/L	27.7	200	109	106	9/10	63.8J	26.5J
Alpha-U[c,f]	pCi/L	0[g]	40.0U	7.81	0	9/10	0.46J	0[g]
Beta[c]	pCi/L	12.4	100	45	42.1	9/10	33.0	24.6
U[d]	µg/L	74.0	305	167	164	8/8	--	--
U[c]	µg/L	171	171	171	171	1/1	92.2	58.4
U-234[c]	pCi/L	19.9	111	58.3	56.8	10/10	--	--
U-235[c]	pCi/L	0.95U	4.0	1.75	1.3	4/8	--	--
U-238[c]	pCi/L	20.7	109	57.2	55.7	10/10	--	--

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[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Total gross alpha excluding radon which is lost during analysis.
[f]Gross alpha minus uranium activity. Result rounded as appropriate.
[g]Uranium activity greater than gross alpha.

Section C3.0

Alluvial Ground Water Analytical Results

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Alluvial Ground Water -- Upgradient -- 92-05[a]

Analyte	Unit	November 1992 – December 1996[b]											
		Minimum	Maximum	Average	Median	FOD	10/13/97	10/05/98	10/13/99	10/30/00	04/11/01	07/20/01	10/10/01
Field Measurements													
Alkalinity[c]	mg/L	178	372	273	287	9/9	266	287	305	--	270	321	303
Conductivity[d]	µmhos/cm	833	1868	1370	1420	10/10	1670	1402	1531	1520	1250	1366	1350
DO[d]	mg/L	4.69	7.58	6.16	6.23	6/6	--	--	--	--	7.7	--	--
ORP[d]	mV	69	214	148	140	5/5	--	124	84	84	71	--	38
pH[d]	s.u.	6.52	6.92	6.71	6.73	10/10	6.87	6.95	--	7.05	7.66	6.42	6.99
Temperature[d]	C	4.8	14.6	8.73	8.95	10/10	13.3	11.1	11.3	9.4	7.7	9.7	10
Turbidity[d]	NTU	2.63	651	107	19.5	10/10	9.78	15.7	--	42.6	4.05	60.3	70.5
Common Ions[e]													
Ca	mg/L	225	346	274	258	5/5	308	230	253	266	214	206	207
Chloride[c]	mg/L	7.08	12.9	10.4	10.7	9/9	14.7	13.6	15.2	16.4	15.2	15.4	15.6
Fluoride[c]	µg/L	47.7	154	103	101	9/9	148	132	192	126	160	122	182
Hardness	mg/L	707	1080	860	813	5/5	951	725	795	831	678	645	648
K	mg/L	1.67J	3.83J	2.45	2.07	5/5	2.64	2.70J	2.84	2.90	2.39	2.49	2.53
Mg	mg/L	35.2	53.1	43	41	5/5	44.2	36.6	39.6	40.5	35.0	31.7	31.9
Na	mg/L	31.6	43.2J	37.5	38.1	5/5	43.0	37.8	38.8	41.5	36.6	40.8	40.1
NO_3+NO_2 as N[c]	µg/L	180	2140	920	535	6/6	738	1040	763	1150J	1140	54.3	510
SO_4[c]	mg/L	187	742	506	516	9/9	679	495	572	545	232	454	450
TDS[d]	mg/L	548	1534	1090	1070	9/9	1340	1100	1240	1160	1060	957	--
Metals[e]													
As	µg/L	1.0U	4.0UJ	1.39	1	2/7	10.8J	1.0UR	0.4U	0.2U	0.5U	0.5U	0.6U
Fe	µg/L	5.0U	2720	752	143	3/4	--	--	9U	11.7U	9.1	15.6	0.8U
Mn	µg/L	1.0U	181	42.6	7.1	4/5	1.1U	1.0U	2	12.9	0.63	6.8	6.6
Mo	µg/L	1.4J	27.0U	4.7	2.9	5/7	2.4	2.3J	0.8U	1.9	0.4U	3U	1.9U
Se	µg/L	1.0U	15.0UJ	1.89	1	1/7	2.2U	1.2J	0.94	1.3	2.4	0.85	0.49
U	µg/L	3.1J	5.8	4.76	5.3	5/5	6.1	5.2	5.3	5.9	4.9	4.4	4.8
V	µg/L	4.0U	9.0	3.76	3	1/7	1.1U	2.0U	1U	1.3U	0.4U	0.3U	0.38
Radiological													
Alpha[c,f]	pCi/L	11.4U	44.0U	14.4	14	0/9	10.3U	11.4J	9.2UJ	8.6UJ	7.8U	5.0UJ	8.3UJ
Alpha-U[c,g]	pCi/L	11.4U	44.0U	14.4	14	0/9	10.3U	4.3J	9.2UJ	8.6UJ	7.8U	5.0UJ	8.3UJ
Beta[c]	pCi/L	13.3U	48.0U	11.1	10	0/9	11.0U	13.2	9.9U	7.5U	8.0U	4.7U	8.2U
U	µg/L	3.1J	5.8	4.76	5.3	5/5	6.1	5.2	5.3	5.9	4.9	4.4	4.8
U-234[c]	pCi/L	2.8	4.2	3.28	3.3	8/9	--	4.7	--	--	--	3.7J	--
U-235[c]	pCi/L	0.070U	1.0U	0.191	0.125	1/8	--	0.40U	--	--	--	--	--
U-238[c]	pCi/L	1.3	2.2	1.76	1.8	9/9	--	2.4	--	--	--	1.8J	--

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Upgradient -- MW00-01[a]

Analyte	Unit	08/01/00	11/01/00	04/09/01	07/11/01	10/08/01	04/03/02	07/08/02	10/07/02
Field Measurements									
Alkalinity[c]	mg/L	254	258	242	243	276	278	303	339
Conductivity[d]	µmhos/cm	2390	1461	1355	1660	1710	1574	2610	1436
DO[d]	mg/L	3.94	4.8	4.4	--	--	--	--	--
ORP[d]	mV	215	170	23	13	13	-87	--	--
pH[d]	s.u.	6.81	6.82	7.33	6.63	6.86	6.94	6.61	6.67
Temperature[d]	C	12.5	9.2	7.2	10	10.6	12	14.1	12.01
Turbidity[d]	NTU	1.67	0.98	0.4	3.38	0.57	1.51	0.95	3.23
Common Ions[e]									
Ca	mg/L	251	255	216	287	310	276	229	250
Chloride[c]	mg/L	11.9	10.1	16.6	6.51	8.45	12.8	15.2	14.2
Fluoride[c]	µg/L	150	148	138	181	26.2U	109J	181	172
Hardness	mg/L	807	812	690	934	999	894	741	799
K	mg/L	2.41	2.42	1.99	2.41	2.34	2.33	2.19	2.43
Mg	mg/L	43.7	42.5	36.7	52.8	54.7	49.7	41.0	42.5
Na	mg/L	38.2	34.5	38.8	36.0	37.6	37.8	37.3	46.1
NO_3+NO_2 as N[c]	µg/L	892	555	699	57.4	235	304	466	1140
SO_4[c]	mg/L	598	575	508	730	790	632	499	531
TDS[d]	mg/L	1200	1150	1070	1380	--	--	--	--
Metals[e]									
As	µg/L	0.3U	0.2U	0.5U	0.5U	0.6U	0.33	0.19	0.1U
Fe	µg/L	9.1U	11.7U	14.1	5.9	0.8U	1U	4U	0.8U
Mn	µg/L	2.3	2U	0.78	0.1U	0.1U	0.1U	0.1U	0.1U
Mo	µg/L	2.3	1.3	0.4U	3U	1.9U	1.8U	1.8U	1.7U
Se	µg/L	1.8	1.1	1.7	0.3U	0.97	1.1	1.2	1.1
U	µg/L	4.6	4.2	7.9	5.5	5.4	5.7	4.1	5.5
V	µg/L	1.3U	1.3U	0.4U	0.53	0.3U	1.1	0.3U	0.3U
Radiological									
Alpha[c,f]	pCi/L	12.2U	8.3UJ	8.0U	12.4UJ	12.2UJ	10.3UJ	9.9U	8.9U
Alpha-U[c,g]	pCi/L	12.2U	8.3UJ	8.0U	12.4UJ	12.2UJ	10.3UJ	9.9U	8.9U
Beta[c]	pCi/L	10.5U	7.4U	8.0U	12.0U	11.6U	10.2	8.9U	9.0U
U	µg/L	4.6	4.2	7.9	5.5	5.4	5.7	4.1	5.5

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]*Metals and cations are from filtered samples October 1997 through October 2002.*
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]*Uranium activity is below detection limits.*

Alluvial Ground Water -- Upgradient -- MW00-02[a]

Analyte	Unit	08/02/00	11/01/00	04/09/01	07/12/01	10/11/01	04/03/02	07/09/02	10/09/02
Field Measurements									
Alkalinity[c]	mg/L	254	294	243	257	282	281	291	312
Conductivity[d]	µmhos/cm	3290	2200	1845	1856	2020	1830	3067	1649
DO[d]	mg/L	2.58	4.3	5	--	--	--	--	--
ORP[d]	mV	163	150	52	--	107	-23	--	--
pH[d]	s.u.	6.83	6.55	6.77	6.76	6.84	6.95	6.56	6.78
Temperature[d]	C	11	9.2	7.8	9.4	8.5	9.1	10.35	11.3
Turbidity[d]	NTU	3.7	0.51	0.3	0.9	1.33	2.12	1.9	95.8
Common Ions[e]									
Ca	mg/L	366	414	316	322	370	334	279	293
Chloride[c]	mg/L	6.50	7.99	9.38	5.20	6.46	6.47	7.34	12.6
Fluoride[c]	µg/L	166	130	140	139	164	151J	198	160
Hardness	mg/L	1200	1360	1040	1070	1210	1100	922	962
K	mg/L	2.46	2.71	2.28	2.38	2.37	2.40	2.31	2.49
Mg	mg/L	69.8	78.7	60.6	63.4	70.5	65.6	54.7	55.9
Na	mg/L	41.3	43.8	41.4	40.5	39.7	38.3	37.0	40.1
NO_3+NO_2 as N[c]	µg/L	404	703	1230	42	746	190	307	690
SO_4[c]	mg/L	1020	1070	848	875	1000	815	721	715
TDS[d]	mg/L	1790	1940	1600	1620	--	--	--	--
Metals[e]									
As	µg/L	0.3U	0.2U	0.5U	0.5U	0.6U	0.17	0.1U	1.2
Fe	µg/L	9.1U	11.7U	18.4	9.1	0.8U	1U	66.3	1060
Mn	µg/L	72.7	8.6	2.3	1.2	0.1U	1.5	17.8	211
Mo	µg/L	2.5	2.1	3.1	3U	1.9U	1.8U	1.8U	2.6
Se	µg/L	1.7	1.8	2	1.6	0.94	1	1.4	1.3
U	µg/L	5.5	10	6.4	5.1	6.5	6.6	5	7.3
V	µg/L	1.3U	1.3U	0.47	0.3U	0.3U	0.3U	0.3U	1.1
Radiological									
Alpha[c,f]	pCi/L	11.1U	13.9UJ	11.5U	7.1UJ	12.9UJ	11.1UJ	10.3U	9.4U
Alpha-U[c,g]	pCi/L	11.1U	13.9UJ	11.5U	7.1UJ	12.9UJ	11.1UJ	10.3U	9.4U
Beta[c]	pCi/L	11.9U	13.1U	11.9U	6.6U	11.6U	9.5U	8.9U	9.0U
U	µg/L	5.5	10	6.4	5.1	6.5	6.6	5	7.3

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[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- 82-20[a]

Analyte	Unit	10/20/97	10/07/98	10/27/99	11/01/00	10/11/01	10/09/02
Field Measurements							
Alkalinity[c]	mg/L	312	338	316	210	279	326
Conductivity[d]	µmhos/cm	1967	2800	2598	2470	2370	2167
DO[d]	mg/L	--	--	4.63	--	--	--
ORP[d]	mV	--	117	97	203	105	--
pH[d]	s.u.	6.79	6.56	6.41	6.53	6.56	6.75
Temperature[d]	C	12.1	11.1	9.9	9.1	8.8	11.09
Turbidity[d]	NTU	>1000	121	4.53	>1000	24.3	3.16
Common Ions[e]							
Ca	mg/L	504	542	485	451	417	379
Chloride[c]	mg/L	19.4	11.8	13.0	18.4	10.9	23.3
Fluoride[c]	µg/L	167	161J	264	140	213	173
Hardness	mg/L	1640	1790	1640	1510	1400	1280
K	mg/L	2.61	2.88J	3.01	2.83	2.72	2.75
Mg	mg/L	93.0	105	104	92.5	86.9	81.6
Na	mg/L	93.2	90.6	82.6	72.1	71.6	64.7
NO_3+NO_2 as N[c]	µg/L	1490	2160	1010	1180	788	3170
SO_4[c]	mg/L	1360	1410	1350	1200	1300	1090
TDS[d]	mg/L	2360	2700	2440	2260	--	--
Metals[e]							
As	µg/L	2.4J	1.0U	0.4U	0.2U	0.6U	0.1U
Fe	µg/L	--	--	9U	23.1	24.8	0.8U
Mn	µg/L	886	271	120	310	155	23.3
Mo	µg/L	5.1	3.2J	1.1	2.8	1.9U	1.7U
Se	µg/L	3.8	4.4J	3.8	3.6	2.7	11.3
U	µg/L	9.0	9.6	8.8	7.7	7.6	7
V	µg/L	1.1U	2.0U	1U	1.3U	0.32	0.3U
Radiological							
Alpha[c,f]	pCi/L	18.4U	25.0U	16.1J	12.8J	14.6UJ	10.4U
Alpha-U[c,g]	pCi/L	18.4U	25.0U	10.1J	7.5J	14.6UJ	10.4U
Beta[c]	pCi/L	18.4U	27.0U	12.2	11.6U	11.7U	9.1U
U	µg/L	9.0	9.6	8.8	7.7	7.6	7

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- GB1126T[a]

Analyte	Unit	02/23/99	04/14/99	07/29/99	01/14/00	04/18/00
Common Ions[e]						
Ca	mg/L	--	206	--	140	291
Hardness	mg/L	--	1180	--	691	1210
K	mg/L	--	2.91J	--	0.786	2.65
Mg	mg/L	--	161	--	82.8	118
Na	mg/L	--	498	--	225	788
Metals[e]						
As	µg/L	1.5	5.2J	2.1J	1.4	5.6
Fe	µg/L	--	5.0U	5.9U	8.9U	152
Mn	µg/L	1450	190	878	530	1270
Mo	µg/L	10.6	117	13.6J	20	225
Se	µg/L	0.78	1.5J	1.0U	0.10U	10
U	µg/L	33.6	450	172	158	2670
V	µg/L	2.5	4.1J	6.5J	62.2	2560
Radiological						
U	µg/L	33.6	450	172	158	2670

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- GB2820T[a]

Analyte	Unit	02/23/99	04/13/99	07/29/99
Common Ions[e]				
Ca	mg/L	--	619	--
Hardness	mg/L	--	2390	--
K	mg/L	--	17.6	--
Mg	mg/L	--	206	--
Na	mg/L	--	608	--
Metals[e]				
As	µg/L	0.22	1.0U	1.0U
Fe	µg/L	--	144	245
Mn	µg/L	19.3	64.3	25.2
Mo	µg/L	5.5	8.5J	6.2J
Se	µg/L	52.7	95.1	64.4
U	µg/L	254	272	238
V	µg/L	1.0U	1.0U	1.2J
Radiological				
U	µg/L	254	272	238

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected;value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- GB3127T[a]

Analyte	Unit	04/14/99	04/18/00
Common Ions[e]			
Ca	mg/L	259	695
Hardness	mg/L	893	2080
K	mg/L	7.17	5.48
Mg	mg/L	59.8	84.8
Na	mg/L	184	189
Metals[e]			
As	µg/L	1.0U	0.24
Fe	µg/L	70.8J	140
Mn	µg/L	40.0	240
Mo	µg/L	7.6J	4.6
Se	µg/L	26.4	41.8
U	µg/L	57.0	122
V	µg/L	1.7J	2.7
Radiological			
U	µg/L	57.0	122

[a]*Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.*
U = Not detected;value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- MW00-03[a]

Analyte	Unit	10/15/01	04/04/02
Field Measurements			
Alkalinity[c]	mg/L	449	--
Conductivity[d]	µmhos/cm	4760	5000
ORP[d]	mV	-80	120
pH[d]	s.u.	7.01	7.2
Temperature[d]	C	14.4	7.3
Turbidity[d]	NTU	5.71	15.6
Common Ions[e]			
Ca	mg/L	513	472
Chloride[c]	mg/L	199	--
Fluoride[c]	µg/L	586	--
Hardness	mg/L	2120	2010
K	mg/L	2.95	2.28
Mg	mg/L	204	201
Na	mg/L	545	608
NO_3+NO_2 as N[c]	µg/L	332	--
SO_4[c]	mg/L	2720	--
Metals[e]			
As	µg/L	1.8	0.42
Fe	µg/L	527	1U
Mn	µg/L	4570	3790
Mo	µg/L	50.9	8.9
Se	µg/L	2.6	0.53
U	µg/L	864	559
V	µg/L	0.56	0.3U
Radiological			
Alpha[c,f]	pCi/L	548	--
Alpha-U[c,g]	pCi/L	0[h]	--
Beta[c]	pCi/L	146	--
U	µg/L	864	559

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected;value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- MW00-04[a]

Analyte	Unit	08/02/00	11/02/00	01/30/01
Field Measurements				
Alkalinity[c]	mg/L	--	289	--
Conductivity[d]	µmhos/cm	3655	4100	4790
DO[d]	mg/L	1.49	--	--
ORP[d]	mV	-35	197	130
pH[d]	s.u.	7.29	7.03	7.29
Temperature[d]	C	19.3	13.8	4.3
Turbidity[d]	NTU	13.3	79.2	--
Common Ions[e]				
Ca	mg/L	301	356	360
Hardness	mg/L	1070	1290	1350J
K	mg/L	20.5	19.2	17.8
Mg	mg/L	78.4	98.3	109J
Na	mg/L	496	579	638
NO_3+NO_2 as N[c]	µg/L	--	--	29500
Metals[e]				
As	µg/L	0.89	0.2U	0.2U
Fe	µg/L	2120	11.7U	11U
Mn	µg/L	7530	8090	9020
Mo	µg/L	245	296	457
Se	µg/L	0.46	1.8	0.66
U	µg/L	119	1080	2170
V	µg/L	1.3U	1.3U	1.5U
Radiological				
U	µg/L	119	1080	2170
U-234[c]	pCi/L	--	--	716
U-238[c]	pCi/L	--	--	699

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]*Uranium activity results were qualified as unusable ("R").*
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- MW00-08[a]

Analyte	Unit	04/09/01
Field Measurements		
Conductivity[d]	µmhos/cm	3870
ORP[d]	mV	192
pH[d]	s.u.	6.73
Temperature[d]	C	6.5
Turbidity[d]	NTU	29.6

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U = Not detected;value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- T00-01[a]

Analyte	Unit	08/01/00	11/02/00	04/09/01	07/18/01	10/09/01	01/31/02	04/03/02	07/10/02	10/08/02
Field Measurements										
Alkalinity[c]	mg/L	185	175	--	256	259	251	219	1274	272
Conductivity[d]	µmhos/cm	4980	2130	--	2420	1928	2260	1697	4238	2284
DO[d]	mg/L	0.66	3.1	2.1	--	--	--	--	--	--
ORP[d]	mV	162	131	--	99	122	--	144	--	--
pH[d]	s.u.	6.43	6.1	--	6.23	6.64	6.95	6.78	6.48	6.47
Temperature[d]	C	19.4	14.1	--	14.7	15.2	7.7	5.62	16.08	15.88
Turbidity[d]	NTU	4.96	44.5	--	1.27	1.57	2.08	2.72	1.13	0.93
Common Ions[e]										
Ca	mg/L	180	127	137	157	157	173	181	194	173
Chloride[c]	mg/L	134	87.5	96.1	91.3	94.7	74.0	51.0	69.3	80.1
Fluoride[c]	µg/L	691	610	525	652	749	335	25.1U	494	349
Hardness	mg/L	677	473	506	577	569	640	658	697	639
K	mg/L	35.8	28.3	21.0	29.9	29.2	25.2	16.2	24.6	29.7
Mg	mg/L	55.2	37.8	39.9	45.0	43.0	50.4	50.0	51.7	50.2
Na	mg/L	430	317	255	336	306	242	125	251	273
NO_3+NO_2 as N[c]	µg/L	55100	51100J	10800	9380	5940	5100	868	1200	3440
SO_4[c]	mg/L	1060	694	422	887	946	853	679	886	924
TDS[d]	mg/L	2400	1700	1590	1820	--	--	--	--	--
Metals[e]										
As	µg/L	19.3	19.4	14.9	17.8	20.5	16.5	11.6	14.6	17.1
Fe	µg/L	9.1U	11.7U	1.0U	0.8U	0.8U	0.8U	1U	4U	0.8U
Mn	µg/L	4280	2440	933	1940	2290	2110	119	981	2740
Mo	µg/L	163	150	86.4	144	167	103	53.1	116	142
Se	µg/L	10.9	12.1	9.5	13.5	39.2	18.4	22.2	24.5	14.3
U	µg/L	176	144	525	473	416	684	452	610J	372
V	µg/L	597	604	386	598	667	421	288	521	579
Radiological										
Alpha[c,f]	pCi/L	93.9	71.4J	497	330J	344J	472	294J	377	253
Alpha-U[c,g]	pCi/L	0[h]	0[h]	136	0[h]	58.2J	2.1	0[h]	0[h]	0[h]
Beta[c]	pCi/L	80.1	58.5	149	72.1	98.4	141	146	108	101
U	µg/L	176	144	525	473	416	684	452	610J	372
U-234[c]	pCi/L	--	--	--	155J	--	--	--	--	--
U-238[c]	pCi/L	--	--	--	182J	--	--	--	--	--

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[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- T00-04[a]

Analyte	Unit	04/09/01	07/11/01	10/15/01	01/31/02	04/03/02	07/09/02	10/08/02
Field Measurements								
Alkalinity[c]	mg/L	214	236	216	159	--	241	175
Conductivity[d]	µmhos/cm	2580	5370	2720	2210	1653	3301	1771
DO[d]	mg/L	1.6	--	--	--	--	--	--
ORP[d]	mV	107	--	136	--	91	--	--
pH[d]	s.u.	6.77	6.46	6.64	7.04	7.02	6.54	6.71
Temperature[d]	C	6.7	14.7	16.3	7	7.6	16.18	15.61
Turbidity[d]	NTU	--	1.82	2.08	1.3	2.65	4.52	2.17
Common Ions[e]								
Ca	mg/L	176	512	173	157	184	192	209
Chloride[c]	mg/L	80.4	131	73.2	51.7	35.7	34.5	50.1
Fluoride[c]	µg/L	530	459	1020	385	290J	610	276
Hardness	mg/L	679	1930	667	618	707	727	760
K	mg/L	11.2	12.9	10.2	9.92	10.3	11.7	12.6
Mg	mg/L	58.1	158	57.0	54.8	60.1	60.1	57.8
Na	mg/L	295	856	380	252	122	136	124
NO_3+NO_2 as N[c]	µg/L	15000	64600	16700	7910	3010	2900	4010
SO_4[c]	mg/L	480	3080	1280	899	654	733	789
TDS[d]	mg/L	1990	5640	--	--	--	--	--
Metals[e]								
As	µg/L	4.7	5.3	5.9	4.9	4.4	5.1	5.2
Fe	µg/L	1.0U	2.2	0.8U	0.8U	1U	4U	0.8U
Mn	µg/L	1000	2220	1210	1440	408	920	292
Mo	µg/L	364	237	389	348	232	301	230
Se	µg/L	7.3	35.7	16.9	21.5	33.5	33.8	112
U	µg/L	1310	3690	1340	1110	1440	1280J	674
V	µg/L	120	128	165	125	111	154	163
Radiological								
Alpha[c,f]	pCi/L	691	2520J	966	769	871J	928	474
Alpha-U[c,g]	pCi/L	0[h]	0[h]	45.4	6.4	0[h]	48.6	11.0
Beta[c]	pCi/L	349	511	217	200	422	165	156
U	µg/L	1310	3690	1340	1110	1440	1280J	674

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]*Metals and cations are from filtered samples October 1997 through October 2002.*
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- T00-17[a]

Analyte	Unit	08/24/00
Metals[e]		
As	µg/L	0.44
Fe	µg/L	49.7
Mn	µg/L	80.9
Mo	µg/L	44.8
Se	µg/L	60.8
U	µg/L	638
V	µg/L	1.2U
Radiological		
U	µg/L	638

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- T00-18[a]

Analyte	Unit	08/24/00	10/30/00
Field Measurements			
Alkalinity[c]	mg/L	--	457
Conductivity[d]	µmhos/cm	--	5160
ORP[d]	mV	--	207
pH[d]	s.u.	--	6.75
Temperature[d]	C	--	13.3
Turbidity[d]	NTU	--	396
Common Ions[e]			
NO_3+NO_2 as N[c]	µg/L	--	96900
Metals[e]			
As	µg/L	0.62	0.46
Fe	µg/L	98.3	11.7U
Mn	µg/L	1760	593
Mo	µg/L	340	514
Se	µg/L	13.6	103
U	µg/L	1110	1430
V	µg/L	1.2U	1.3U
Radiological			
U	µg/L	1110	1430
U-234[c]	pCi/L	384	--
U-235[c]	pCi/L	19.6	--
U-238[c]	pCi/L	379	--

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected;value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- T00-19[a]

Analyte	Unit	08/24/00
Metals[e]		
As	µg/L	0.3U
Fe	µg/L	44
Mn	µg/L	513
Mo	µg/L	452
Se	µg/L	47.4
U	µg/L	935
V	µg/L	1.2U
Radiological		
U	µg/L	935
U-234[c]	pCi/L	306
U-235[c]	pCi/L	13.4
U-238[c]	pCi/L	308

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]*Gross alpha minus uranium activity.* Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- T01-01[a]

Analyte	Unit	07/18/01	10/09/01	01/30/02	04/03/02	07/10/02	10/08/02
Field Measurements							
Alkalinity[c]	mg/L	290	224	251	203	297	228
Conductivity[d]	µmhos/cm	2200	2060	1893	1688	3880	2007
DO[d]	mg/L	--	--	2.27	--	--	--
ORP[d]	mV	--	99	128.2	143	--	--
pH[d]	s.u.	6.24	6.64	6.88	6.93	6.55	6.6
Temperature[d]	C	17.3	16.7	5.62	5.55	16.7	16.45
Turbidity[d]	NTU	3.26	3.36	142.3	3.5	3.25	3.88
Common Ions[e]							
Ca	mg/L	131	143	170	200	140	115
Chloride[c]	mg/L	87.4	77.2	76.4	50.4	81.5	82.5
Fluoride[c]	µg/L	694	673	333	192	545	382
Hardness	mg/L	467	502	606	712	492	424
K	mg/L	26.3	23.8	15.7	12.3	18.3	21.3
Mg	mg/L	34.0	35.2	44.0	51.7	34.7	33.3
Na	mg/L	355	259	221	111	286	272
NO_3+NO_2 as N[c]	µg/L	2120	2600	1560	524	2160	2990
SO_4[c]	mg/L	765	801	775	684	723	753
TDS[d]	mg/L	1620	--	--	--	--	--
Metals[e]							
As	µg/L	33.9	25.9	20.6	17.3	30.2	33.1
Fe	µg/L	0.8U	0.8U	0.8U	1U	4U	0.8U
Mn	µg/L	586	553	127	16.7	155	198
Mo	µg/L	106	105	63.2	42.1	81.3	87
Se	µg/L	22.2	86.3	55.4	32.2	125	237
U	µg/L	326	321	651	331	326J	193
V	µg/L	796	750	441	346	700	731
Radiological							
Alpha[c,f]	pCi/L	182J	239J	381	230J	231	131
Alpha-U[c,g]	pCi/L	0[h]	18.5J	0[h]	2.6J	7.0	0[h]
Beta[c]	pCi/L	50.2	65.7	16.5U	111	59.5	57.8
U	µg/L	326	321	651	331	326J	193
U-234[c]	pCi/L	108J	--	--	--	--	--
U-238[c]	pCi/L	136J	--	--	--	--	--

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- T01-02[a]

Analyte	Unit	07/18/01	01/30/02	04/03/02	07/10/02	10/08/02
Field Measurements						
Alkalinity[c]	mg/L	295	320	337	348	341
Conductivity[d]	µmhos/cm	228	1926	1886	3533	1784
ORP[d]	mV	--	124	149	--	--
pH[d]	s.u.	6.33	6.8	6.83	6.7	6.73
Temperature[d]	C	18.6	6.78	10.83	19.9	16.18
Turbidity[d]	NTU	701	>1000	9.58	20.3	86.4
Common Ions[e]						
Ca	mg/L	251	246	247	234	242
Chloride[c]	mg/L	101	76.3	66.7	33.3	66.7
Fluoride[c]	µg/L	489	279	249	244	221
Hardness	mg/L	854	831	840	796	816
K	mg/L	16.6	12.2	9.38	9.84	9.64
Mg	mg/L	55.1	52.6	54.3	51.3	51.3
Na	mg/L	189	128	112	106	101
NO_3+NO_2 as N[c]	µg/L	4450	2960	2820J	1770	1590
SO_4[c]	mg/L	715	737	656	303	634
TDS[d]	mg/L	1640	--	--	--	--
Metals[e]						
As	µg/L	15.6	17.6	22.3	18.6	18.8
Fe	µg/L	5.4	259	28.3	4U	0.8U
Mn	µg/L	691	465	6.9	105	73.2
Mo	µg/L	44.4	26.9	31.3	22.5	23.7
Se	µg/L	125	137	133	131	118
U	µg/L	311	301	373	323J	278
V	µg/L	472	405	507	532	609
Radiological						
Alpha[c,f]	pCi/L	155J	--	210J	197	158
Alpha-U[c,g]	pCi/L	0[h]	--	0[h]	0[h]	0[h]
Beta[c]	pCi/L	46.0	--	116	52.3	59.6
U	µg/L	311	301	373	323J	278
U-234[c]	pCi/L	107J	--	--	--	--
U-238[c]	pCi/L	138J	--	--	--	--

[a]*Definition of Qualifiers:* -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]*Metals and cations are from filtered samples* October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]*Uranium activity results were qualified as unusable ("R").*
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- T01-03[a]

Analyte	Unit	10/10/01
Field Measurements		
Conductivity[d]	µmhos/cm	2080
ORP[d]	mV	136
pH[d]	s.u.	6.79
Temperature[d]	C	14
Turbidity[d]	NTU	900
Common Ions[e]		
Ca	mg/L	247
Chloride[c]	mg/L	92.1
Fluoride[c]	µg/L	349
Hardness	mg/L	830
K	mg/L	10.6
Mg	mg/L	51.9
Na	mg/L	138
NO_3+NO_2 as N[c]	µg/L	3120
SO_4[c]	mg/L	765
Metals[e]		
As	µg/L	17.6
Fe	µg/L	0.8U
Mn	µg/L	302
Mo	µg/L	25.6
Se	µg/L	86.8
U	µg/L	224
V	µg/L	491
Radiological		
Alpha[c,f]	pCi/L	130J
Alpha-U[c,g]	pCi/L	0[h]
Beta[c]	pCi/L	46.2
U	µg/L	224

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UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]*Metals and cations are from filtered samples* October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- T01-04[a]

Analyte	Unit	07/18/01	10/10/01	01/30/02	04/03/02	07/10/02	10/08/02
Field Measurements							
Alkalinity[c]	mg/L	298	297	307	428	365	359
Conductivity[d]	µmhos/cm	2100	2010	1806	1936	3334	1763
ORP[d]	mV	94	135	108	141	--	--
pH[d]	s.u.	6.13	6.72	6.94	6.79	6.61	6.68
Temperature[d]	C	16.1	14.1	8.91	12.43	15.56	14.97
Turbidity[d]	NTU	753	974	800	8.67	3.16	51.9
Common Ions[e]							
Ca	mg/L	251	261	260	271	241	248
Chloride[c]	mg/L	98.7	81.1	79.0	75.6	60.2	71.5
Fluoride[c]	µg/L	350	388	268	226	338	267
Hardness	mg/L	860	881	878	921	815	834
K	mg/L	9.75	7.88	7.71	6.53	6.32	7.56
Mg	mg/L	56.7	55.6	55.6	59.4	51.8	52.2
Na	mg/L	160	121	104	102	94.0	94.6
NO_3+NO_2 as N[c]	µg/L	3560	2520	2160	2050J	1370	1700
SO_4[c]	mg/L	691	754	693	640	598	606
TDS[d]	mg/L	1630	--	--	--	--	--
Metals[e]							
As	µg/L	11.1	12.1	12.6	12.4	10.9	10.7
Fe	µg/L	9.1	23.1	0.8U	1U	4U	0.8U
Mn	µg/L	324	126	117	14.7	5.4	84.8
Mo	µg/L	17.9	13.4	14.8	14.9	13.7	15.2
Se	µg/L	93.5	72.5	85.7	79	66.3	83.5
U	µg/L	221	192	251	282	226	213
V	µg/L	358	360	317	329	314	369
Radiological							
Alpha[c,f]	pCi/L	93.8J	95.6J	141	149	128	111
Alpha-U[c,g]	pCi/L	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]
Beta[c]	pCi/L	37.3	37.9	9.9U	83.1	11.6U	49.0
U	µg/L	221	192	251	282	226	213
U-234[c]	pCi/L	73.9J	--	--	--	--	--
U-238[c]	pCi/L	97.3J	--	--	--	--	--

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[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- T01-05[a]

Analyte	Unit	10/09/01	01/30/02	04/03/02	07/09/02	10/08/02
Field Measurements						
Alkalinity[c]	mg/L	324	--	335	342	363
Conductivity[d]	µmhos/cm	1957	1762	1940	3315	1758
DO[d]	mg/L	--	3.78	--	--	--
ORP[d]	mV	525	93	30	--	--
pH[d]	s.u.	6.79	6.73	6.75	6.55	6.74
Temperature[d]	C	14.5	9.7	12.14	14.46	13.98
Turbidity[d]	NTU	129	6.1	8.09	2.73	1.77
Common Ions[e]						
Ca	mg/L	267	264	263	238	253
Chloride[c]	mg/L	79.4	79.4	79.3	59.7	75.6
Fluoride[c]	µg/L	371	233J	326	324	280
Hardness	mg/L	901	892	890	806	850
K	mg/L	6.58	5.86	5.43	6.31	6.40
Mg	mg/L	56.8	56.6	56.7	51.3	52.9
Na	mg/L	114	98.1	97.0	94.7	91.2
NO_3+NO_2 as N[c]	µg/L	2640	2030	2040J	1310	1750
SO_4[c]	mg/L	732	679	645	585	599
Metals[e]						
As	µg/L	10.7	10	8.8	9.5	9.7
Fe	µg/L	0.8U	29.4	32.7	4U	0.8U
Mn	µg/L	1.7	60.8	2.4	0.63	0.1U
Mo	µg/L	8.7	6.6	9.7	12	11.7
Se	µg/L	68.9	66.5	58.5	55.9	72.1
U	µg/L	180	230	235	201J	188
V	µg/L	289	229	226	280	314
Radiological						
Alpha[c,f]	pCi/L	91.7J	130	140	118	96.3
Alpha-U[c,g]	pCi/L	0[h]	0[h]	0[h]	0[h]	0[h]
Beta[c]	pCi/L	26.4	9.8U	66.8	10.4U	39.7
U	µg/L	180	230	235	201J	188

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]*Uranium activity greater than gross alpha.*
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- T01-07[a]

Analyte	Unit	07/11/01	10/09/01	01/31/02	04/03/02	07/09/02	10/08/02
Field Measurements							
Alkalinity[c]	mg/L	374	329	386	461	387	415
Conductivity[d]	µmhos/cm	3290	2980	2840	2777	4660	2459
ORP[d]	mV	65	119	--	153	--	--
pH[d]	s.u.	6.25	6.77	6.89	6.62	6.48	6.71
Temperature[d]	C	11	11.6	9.6	10.89	13.22	11.93
Turbidity[d]	NTU	4.87	1.47	4.92	3.85	1.74	1.69
Common Ions[e]							
Ca	mg/L	349	335	309	316	284	296
Chloride[c]	mg/L	205	189	157	157	131	144
Fluoride[c]	µg/L	468	649	371	50.2U	635	290
Hardness	mg/L	1390	1320	1210	1240	1100	1130
K	mg/L	5.24	4.90	4.98	4.79	4.42	4.63
Mg	mg/L	125	118	107	110	95.1	94.1
Na	mg/L	305	238	208	188	187	176
NO_3+NO_2 as N[c]	µg/L	7350	6760	4830	4560	3440	3470
SO_4[c]	mg/L	1300	1240	936	1010	905	905
TDS[d]	mg/L	2790	--	--	--	--	--
Metals[e]							
As	µg/L	2.4	3.9	3.7	3.2	3	3.1
Fe	µg/L	0.8U	0.8U	0.8U	1U	4U	18
Mn	µg/L	54.9	26.2	18.8	17.9	12.5	13.8
Mo	µg/L	3.7	3.9	1.5U	2.8	4	3.1
Se	µg/L	54.4	46.4	38.4	40.7	39	40
U	µg/L	214	201	199	203	191	183
V	µg/L	86.2	93.3	91.9	90.9	91.1	102
Radiological							
Alpha[c,f]	pCi/L	82.7J	97.2	91.0	138J	98.3	112
Alpha-U[c,g]	pCi/L	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]
Beta[c]	pCi/L	35.5	50.0	28.9	64.7	15.2U	38.0
U	µg/L	214	201	199	203	191	183

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- T01-08[a]

Analyte	Unit	07/11/01	10/11/01	01/31/02	04/03/02	07/10/02	10/09/02
Field Measurements							
Alkalinity[c]	mg/L	--	--	--	--	498	--
Conductivity[d]	µmhos/cm	5160	4290	3090	4080	8082	4092
ORP[d]	mV	--	29	--	61	--	--
pH[d]	s.u.	6.73	6.77	7.07	6.93	6.54	6.64
Temperature[d]	C	23	16	3.6	8.4	20.14	17.22
Turbidity[d]	NTU	12.1	36.9	84.1	52.6	15.8	9.21
Common Ions[e]							
Ca	mg/L	519	584	533	609	572	593
Hardness	mg/L	1950	2130	2000	2120	2090	2250
K	mg/L	10.2	7.06	6.17	3.23	5.58	6.89
Mg	mg/L	159	162	162	145	160	186
Na	mg/L	439	400	326	304	389	398
NO_3+NO_2 as N[c]	µg/L	8390	16800	--	--	25300	--
Metals[e]							
As	µg/L	0.5U	0.69	0.6U	0.27	0.97	0.24
Fe	µg/L	18.1	30.3	0.8U	23.2	23	0.8U
Mn	µg/L	7770	11400	11300	11600	12800	14200
Mo	µg/L	45.3	38.7	16.5	16.5	35.2	30.8
Se	µg/L	2	0.84	1.4	1.2	1.1	1.2
U	µg/L	397	430	46.5	435	416J	354
V	µg/L	3.7	3	2.4	1.3	4	4
Radiological							
U	µg/L	397	430	46.5	435	416J	354

[a]*Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.* U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- T01-12[a]

Analyte	Unit	07/11/01	10/09/01	01/30/02	04/03/02	07/09/02	10/07/02
Field Measurements							
Alkalinity[c]	mg/L	363	361	443	484	410	406
Conductivity[d]	µmhos/cm	2250	2270	2240	2180	3572	2151
ORP[d]	mV	10	105	--	154	--	--
pH[d]	s.u.	6.51	6.93	7.16	6.87	6.69	6.82
Temperature[d]	C	11.6	13	7.8	9.54	14.66	14.04
Turbidity[d]	NTU	1.56	1.47	4.95	2.2	0.5	3.47
Common Ions[e]							
Ca	mg/L	294	316	290	299	259	294
Chloride[c]	mg/L	123	128	112	115	91.0	141
Fluoride[c]	µg/L	349	440	266	25.1U	335	318
Hardness	mg/L	1010	1070	986	1020	881	1000
K	mg/L	4.12	4.20	3.80	3.56	3.23	4.22
Mg	mg/L	67.8	69.0	63.6	66.9	57.0	65.0
Na	mg/L	147	131	125	124	102	153
NO_3+NO_2 as N[c]	µg/L	4310	5000	3960	4040	1990	4130
SO_4[c]	mg/L	750	850	677	656	556	695
TDS[d]	mg/L	1800	--	--	--	--	--
Metals[e]							
As	µg/L	1.2	1.5	2.2	2.1	2.2	2.5
Fe	µg/L	0.8U	0.8U	0.8U	1U	4U	0.8U
Mn	µg/L	0.21	0.1U	0.1U	0.1U	0.1U	0.1U
Mo	µg/L	3U	1.9U	1.5U	1.8U	1.8U	1.7U
Se	µg/L	37.5	35.3	27.6	30.6	22.7	44.4
U	µg/L	164	153	161	155	119	141
V	µg/L	15.6	21	27.6	28	33.5	53
Radiological							
Alpha[c,f]	pCi/L	60.9J	80.2J	101	67.3J	70.3	81.8
Alpha-U[c,g]	pCi/L	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]
Beta[c]	pCi/L	28.7	23.2	33.3	52.9	11.4U	27.2
U	µg/L	164	153	161	155	119	141

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- T01-13[a]

Analyte	Unit	07/20/01	01/31/02	04/03/02	07/10/02
Field Measurements					
Conductivity[d]	µmhos/cm	3650	3700	3500	6376
ORP[d]	mV	--	--	63	--
pH[d]	s.u.	6.48	7.16	7.23	6.82
Temperature[d]	C	16.5	6.8	8.8	14.65
Turbidity[d]	NTU	53.3	33.5	38.3	25.6
Common Ions[e]					
Ca	mg/L	405	407	401	388
Hardness	mg/L	1280	1280	1270	1230
K	mg/L	17.8	16.0	14.3	15.0
Mg	mg/L	64.6	65.0	64.1	62.9
Na	mg/L	451	372	360	359
Metals[e]					
As	µg/L	0.5U	1.6	1.3	1.3
Fe	µg/L	14.9	55.6	1U	4U
Mn	µg/L	924	1270	831	792
Mo	µg/L	74.3	45.7	41.1	41.8
Se	µg/L	0.45	0.3U	0.4	0.37
U	µg/L	436	27.9	391	349
V	µg/L	28.7	215	104	186
Radiological					
U	µg/L	436	27.9	391	349
U-234[c]	pCi/L	172J	--	--	--
U-238[c]	pCi/L	167J	--	--	--

[a]*Definition of Qualifiers: -- = No Data. R = Data unusable.* J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]*Total gross alpha excluding radon which is lost during analysis.*
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- T01-18[a]

Analyte	Unit	07/20/01	10/10/01	01/31/02	04/04/02
Field Measurements					
Conductivity[d]	µmhos/cm	3150	2230	2450	2180
ORP[d]	mV	--	-51	--	37
pH[d]	s.u.	6.75	7.02	7.22	7.3
Temperature[d]	C	16	13.7	5.8	14.7
Turbidity[d]	NTU	24.5	347	127	60.3
Common Ions[e]					
Ca	mg/L	325	322	362	360
Hardness	mg/L	1110	1070	1230	1220
K	mg/L	4.10	3.44	4.22	3.80
Mg	mg/L	72.4	64.8	78.8	78.8
Na	mg/L	173	156	184	179
Metals[e]					
As	µg/L	1.9	0.6U	0.6U	0.33
Fe	µg/L	1040	86.7	852	899
Mn	µg/L	2150	2070	2190	2100
Mo	µg/L	8.7	5.8	1.5U	1.8U
Se	µg/L	9	1.9	25.2	16.3
U	µg/L	247	191	367	307
V	µg/L	2.1	0.82	0.4U	0.3U
Radiological					
U	µg/L	247	191	367	307
U-234[c]	pCi/L	88.4J	--	--	--
U-238[c]	pCi/L	98.3J	--	--	--

[a]*Definition of Qualifiers:* -- = *No Data.* R = *Data unusable.* J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits

Alluvial Ground Water -- On-Site -- T01-19[a]

Analyte	Unit	07/12/01	10/10/01	01/31/02	04/04/02	07/10/02	10/08/02
Field Measurements							
Conductivity[d]	µmhos/cm	1943	1984	2120	1780	3268	--
ORP[d]	mV	-89	-39	--	-11	--	--
pH[d]	s.u.	6.59	6.98	7.3	7.19	6.8	7.04
Temperature[d]	C	17.1	14.9	5	12.5	19.77	17.69
Turbidity[d]	NTU	>1000	507	414	148	155	32.7
Common Ions[e]							
Ca	mg/L	273	280	244	253	212	236
Chloride[c]	mg/L	134	--	114	--	--	--
Fluoride[c]	µg/L	277	--	194	--	--	--
Hardness	mg/L	894	903	798	838	728	774
K	mg/L	4.29	4.31	3.89	3.69	3.97	4.12
Mg	mg/L	51.5	49.4	45.9	50.2	48.3	44.8
Na	mg/L	132	126	118	119	118	119
NO_3+NO_2 as N[c]	µg/L	56.9	230	253	317	--	--
SO_4[c]	mg/L	488	--	404	--	--	--
Metals[e]							
As	µg/L	3.8	4.1	5.9	3.7	4.2	4.9
Fe	µg/L	612	783	1540	850	417	63.7
Mn	µg/L	6740	7150	5020	5010	4760	4420
Mo	µg/L	11.5	9.8	3.8	6.1	5.5	6.2
Se	µg/L	0.41	0.5	0.3U	0.2U	0.16	0.23
U	µg/L	109	111	130	128	110	105
V	µg/L	27.9	19.8	8	6.3	4.4	5.9
Radiological							
U	µg/L	109	111	130	128	110	105

[a]*Definition of Qualifiers:* -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- T01-20[a]

Analyte	Unit	07/19/01	10/11/01	01/31/02	04/03/02	07/10/02	10/10/02
Field Measurements							
Alkalinity[c]	mg/L	--	--	--	--	340	--
Conductivity[d]	µmhos/cm	3890	3940	3960	3880	7138	3802
ORP[d]	mV	--	100	--	--	--	--
pH[d]	s.u.	6.6	6.92	7.17	7.02	6.81	6.9
Temperature[d]	C	15.6	13.2	8.2	11.1	15.64	16.01
Turbidity[d]	NTU	70.3	58.4	49.4	29.4	26.7	19.6
Common Ions[e]							
Ca	mg/L	321	348	322	340	325	348
Chloride[c]	mg/L	120	147	--	73.5	--	--
Fluoride[c]	µg/L	310	231	--	78.2J	--	--
Hardness	mg/L	1020	1090	1010	1100	1050	1120
K	mg/L	27.0	21.0	22.4	14.9	16.3	16.3
Mg	mg/L	52.1	53.4	50.5	61.0	58.2	61.6
Na	mg/L	660	557	523	478	495	499
NO_3+NO_2 as N[c]	µg/L	230	201	--	25	21	26.3
SO_4[c]	mg/L	1780	1950	--	1610	--	--
TDS[d]	mg/L	3250	--	--	--	--	--
Metals[e]							
As	µg/L	0.58	0.6U	0.6U	0.37	0.31	0.16
Fe	µg/L	99.4	18.2	38.9	47	8.4	0.8U
Mn	µg/L	2180	3260	3510	4590	4670	5390
Mo	µg/L	39.1	38.7	33.8	31.3	26	28.9
Se	µg/L	0.32	0.3U	0.3U	0.2U	0.2	0.18
U	µg/L	255	239	69.6	258	271J	252
V	µg/L	7.6	2.8	3.2	1.3	1.8	1.8
Radiological							
Alpha[c,f]	pCi/L	134J	--	--	--	--	--
Alpha-U[c,g]	pCi/L	0[h]	--	--	--	--	--
Beta[c]	pCi/L	45.0	--	--	--	--	--
U	µg/L	255	239	69.6	258	271J	252
U-234[c]	pCi/L	97.8J	--	--	--	--	--
U-238[c]	pCi/L	103J	--	--	--	--	--

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]*Uranium activity results were qualified as unusable ("R").*
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- T01-23[a]

Analyte	Unit	07/11/01	10/08/01	01/30/02	04/03/02	07/09/02	10/07/02
Field Measurements							
Alkalinity[c]	mg/L	420	412	426	399	384	412
Conductivity[d]	µmhos/cm	1544	1511	1546	1350	2445	1413
ORP[d]	mV	-110	-109	--	32	--	--
pH[d]	s.u.	6.84	7.06	7.3	7.2	6.75	6.91
Temperature[d]	C	11.6	12.1	7.2	12	12.32	12.92
Turbidity[d]	NTU	3.58	1.55	4.49	1.33	0.72	1.14
Common Ions[e]							
Ca	mg/L	212	230	219	202	195	228
Chloride[c]	mg/L	68.8	59.2	55.7	47.5	35.2	41.6
Fluoride[c]	µg/L	307	26.2U	485	269J	1920	423
Hardness	mg/L	697	739	706	654	631	730
K	mg/L	2.63	2.54	2.91	2.72	2.75	3.01
Mg	mg/L	40.7	39.9	38.7	36.4	35.0	39.0
Na	mg/L	79.0	64.7	59.5	57.9	54.5	61.6
NO_3+NO_2 as N[c]	µg/L	7.8	92.6	7.3U	124	7.4	59.1
SO_4[c]	mg/L	352	398	361	296	4820	372
TDS[d]	mg/L	1090	--	--	--	--	--
Metals[e]							
As	µg/L	0.5U	0.6U	0.6U	0.1U	0.1U	0.1U
Fe	µg/L	553	510	570	493	422	430
Mn	µg/L	902	831	735	634	585	639
Mo	µg/L	3U	1.9U	1.5U	1.8U	1.8U	1.7U
Se	µg/L	0.3U	0.3U	0.3U	0.2U	0.1U	0.1U
U	µg/L	48.5	44	46.5	43.2	35.7	42.5
V	µg/L	0.3U	0.55	0.4U	0.65	0.3U	0.3U
Radiological							
Alpha[c,f]	pCi/L	19.1J	17.8J	21.1	13.2J	19.3	26.1
Alpha-U[c,g]	pCi/L	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]
Beta[c]	pCi/L	15.0U	11.6U	8.5	20.6	7.5U	11.1
U	µg/L	48.5	44	46.5	43.2	35.7	42.5

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- T01-24[a]

Analyte	Unit	07/11/01	01/30/02	04/03/02
Field Measurements				
Alkalinity[c]	mg/L	279	--	286
Conductivity[d]	µmhos/cm	1269	1605	1258
ORP[d]	mV	-13	--	37
pH[d]	s.u.	6.6	7.39	6.91
Temperature[d]	C	13	7	9.1
Turbidity[d]	NTU	4.9	871	1.47
Common Ions[e]				
Ca	mg/L	187	215	203
Chloride[c]	mg/L	20.9	--	19.4
Fluoride[c]	µg/L	171	--	187J
Hardness	mg/L	603	686	649
K	mg/L	3.53	3.14	3.01
Mg	mg/L	33.0	36.2	34.5
Na	mg/L	45.9	39.6	39.9
NO_3+NO_2 as N[c]	µg/L	41.5	--	186
SO_4[c]	mg/L	406	--	385
TDS[d]	mg/L	950	--	--
Metals[e]				
As	µg/L	0.5U	0.83	0.24
Fe	µg/L	15	288	85.4
Mn	µg/L	337	296	168
Mo	µg/L	3U	1.5U	1.8U
Se	µg/L	0.3U	0.3U	0.2U
U	µg/L	33.1	28.5	28.8
V	µg/L	0.3U	0.4U	0.3U
Radiological				
Alpha[c,f]	pCi/L	14.8J	--	10.3J
Alpha-U[c,g]	pCi/L	0[h]	--	0[h]
Beta[c]	pCi/L	11.6	--	18.7
U	µg/L	33.1	28.5	28.8

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U = Not detected;value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. *Result rounded as appropriate.*
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- T01-25[a]

Analyte	Unit	10/11/01	01/31/02	04/03/02	07/10/02	10/10/02
Field Measurements						
Alkalinity[c]	mg/L	--	--	--	522	--
Conductivity[d]	µmhos/cm	4140	3860	3360	6825	3403
ORP[d]	mV	96	--	47	--	--
pH[d]	s.u.	6.65	6.8	7.4	6.43	6.57
Temperature[d]	C	11.5	8.1	13.5	15.32	15.5
Turbidity[d]	NTU	187	137	73.5	40.7	71.8
Common Ions[e]						
Ca	mg/L	556	527	544	471	511
Chloride[c]	mg/L	--	--	68.6	30.3	--
Fluoride[c]	µg/L	--	--	153J	233	--
Hardness	mg/L	2190	2000	2050	1740	1860
K	mg/L	20.5	19.9	17.2	15.9	15.5
Mg	mg/L	195	167	169	138	143
Na	mg/L	220	188	178	161	142
NO_3+NO_2 as N[c]	µg/L	--	--	206	4.9U	24.4
SO_4[c]	mg/L	--	--	1800	1670	--
Metals[e]						
As	µg/L	1	0.64	1.5	0.26	0.34
Fe	µg/L	141	520	1140	105	595
Mn	µg/L	3350	3780	4430	4420	6400
Mo	µg/L	10.9	1.5U	1.8U	1.8U	1.7U
Se	µg/L	0.3U	0.3U	0.2U	0.18	0.12
U	µg/L	52.1	49.1	48.8	48.1	50.2
V	µg/L	1.7	0.4U	0.66	0.7	0.52
Radiological						
U	µg/L	52.1	49.1	48.8	48.1	50.2

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]*Total gross alpha excluding radon* which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits

Alluvial Ground Water -- On-Site -- T01-26[a]

Analyte	Unit	07/11/01	10/08/01	01/30/02	04/03/02	07/09/02	10/07/02
Field Measurements							
Alkalinity[c]	mg/L	442	425	593	464	418	436
Conductivity[d]	µmhos/cm	1711	1735	1754	1552	2543	1368
ORP[d]	mV	-141	-129	--	-61	--	--
pH[d]	s.u.	6.77	7.06	7.3	7.15	6.75	6.96
Temperature[d]	C	10.4	12	8.2	12.6	11.75	12.77
Turbidity[d]	NTU	8.82	4.23	2.6	4.25	4.68	4.57
Common Ions[e]							
Ca	mg/L	233	256	235	229	194	205
Chloride[c]	mg/L	81.6	95.4	86.7	77.2	44.7	34.7
Fluoride[c]	µg/L	271	343	236	176J	367	255
Hardness	mg/L	761	829	766	746	633	664
K	mg/L	2.13	2.25	2.45	2.33	2.17	2.18
Mg	mg/L	43.4	46.2	43.5	42.3	36.2	36.9
Na	mg/L	93.8	83.3	77.3	76.8	65.3	64.0
NO_3+NO_2 as N[c]	µg/L	25.6	76	75.4	151	4.9U	67
SO_4[c]	mg/L	410	431	382	332	295	324
TDS[d]	mg/L	1230	--	--	--	--	--
Metals[e]							
As	µg/L	0.5U	0.6U	0.6U	0.13	0.1U	0.1U
Fe	µg/L	2610	2660	2550	2220	1810	1390
Mn	µg/L	1100	1130	1060	994	831	802
Mo	µg/L	3U	1.9U	1.5U	1.8U	1.8U	1.7U
Se	µg/L	0.3U	0.3U	0.3U	0.2U	0.1U	0.1U
U	µg/L	80.6	83.1	71.5	63.6	54.4	59.9
V	µg/L	0.3U	0.31	0.53	0.53	0.3U	0.3U
Radiological							
Alpha[c,f]	pCi/L	36.7J	35.8J	40.2	28.4J	26.7	30.3
Alpha-U[c,g]	pCi/L	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]
Beta[c]	pCi/L	13.5U	11.8U	14.8	28.1	7.5U	10.5
U	µg/L	80.6	83.1	71.5	63.6	54.4	59.9

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- T01-27[a]

Analyte	Unit	07/12/01	04/03/02	07/10/02
Field Measurements				
Alkalinity[c]	mg/L	--	--	333
Conductivity[d]	µmhos/cm	2100	2320	4421
ORP[d]	mV	--	47	--
pH[d]	s.u.	7.05	7.05	6.75
Temperature[d]	C	20.4	7.4	16.05
Turbidity[d]	NTU	57	147	54.2
Common Ions[e]				
Ca	mg/L	363	404	370
Chloride[c]	mg/L	--	30.7	26.3
Fluoride[c]	µg/L	--	189J	244
Hardness	mg/L	1150	1370	1200
K	mg/L	4.64	4.52	3.18
Mg	mg/L	59.4	86.9	67.7
Na	mg/L	86.8	104	94.9
NO_3+NO_2 as N[c]	µg/L	--	320	75.7
SO_4[c]	mg/L	--	1200	1140
Metals[e]				
As	µg/L	0.5U	0.4	0.15
Fe	µg/L	5.6	1U	4U
Mn	µg/L	32.9	1560	373
Mo	µg/L	4.4	1.8U	1.8U
Se	µg/L	68.1	1.8	0.9
U	µg/L	8.6	29.3	19.3
V	µg/L	0.36	0.74	0.85
Radiological				
Alpha[c,f]	pCi/L	--	14.6UJ	--
Alpha-U[c,g]	pCi/L	--	14.6UJ	--
Beta[c]	pCi/L	--	18.2	--
U	µg/L	8.6	29.3	19.3

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- T01-28[a]

Analyte	Unit	01/31/02	04/03/02
Field Measurements			
Conductivity[d]	µmhos/cm	3090	2920
pH[d]	s.u.	7.11	6.94
Temperature[d]	C	2.5	11.9
Turbidity[d]	NTU	>1000	805
Common Ions[e]			
Ca	mg/L	526	496
Hardness	mg/L	1800	1680
K	mg/L	1.49	1.31
Mg	mg/L	119	108
Na	mg/L	143	130
Metals[e]			
As	µg/L	0.6U	0.24
Fe	µg/L	135	33.4
Mn	µg/L	1410	830
Mo	µg/L	1.5U	1.8U
Se	µg/L	2.1	2.1
U	µg/L	9.3	9.3
V	µg/L	0.4U	1.2
Radiological			
U	µg/L	9.3	9.3

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected;value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]*Uranium activity results were qualified as unusable ("R").*
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- On-Site -- T01-35[a]

Analyte	Unit	10/23/01	01/31/02	04/01/02	07/09/02	10/07/02
Field Measurements						
Alkalinity[c]	mg/L	331	352	358	378	371
Conductivity[d]	µmhos/cm	1961	1900	1916	3220	1762
ORP[d]	mV	--	--	151	--	--
pH[d]	s.u.	6.94	7.13	6.72	6.68	6.79
Temperature[d]	C	13.9	10.5	12.29	12.58	12.29
Turbidity[d]	NTU	2.46	4.5	0.82	2.18	2.24
Common Ions[e]						
Ca	mg/L	278	270	276	247	259
Chloride[c]	mg/L	76.6	74.4	79.3	53.0	75.5
Fluoride[c]	µg/L	433	232	281	361	246
Hardness	mg/L	926	904	927	834	866
K	mg/L	5.06	5.28	4.81	3.96	4.29
Mg	mg/L	56.2	55.9	57.7	52.8	53.3
Na	mg/L	94.7	92.0	93.3	81.8	90.3
NO_3+NO_2 as N[c]	µg/L	2010	1840	1710J	893	1600
SO_4[c]	mg/L	778	646	631	447	591
Metals[e]						
As	µg/L	11.7	12	10.7	9.2	9
Fe	µg/L	0.8U	0.8U	1U	4U	23.2
Mn	µg/L	1.7	0.1U	0.1U	0.1U	0.1U
Mo	µg/L	3.9	3.1	4.7	5.5	3.3
Se	µg/L	36.7	40.5	39.1	34.4	50.3
U	µg/L	159	166	155	125	115
V	µg/L	243	262	248	222	249
Radiological						
Alpha[c,f]	pCi/L	14.6	89.7	94.2	70.7	65.5
Alpha-U[c,g]	pCi/L	0[h]	0[h]	0[h]	0[h]	0[h]
Beta[c]	pCi/L	11.3	29.2	43.1	10.2U	25.3
U	µg/L	159	166	155	125	115

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- 82-07[a]

Analyte	Unit	November 1992 – December 1996[b]										
		Minimum	Maximum	Average	Median	FOD	10/16/97	04/22/98	10/08/98	01/28/99	04/14/00	07/27/00
Field Measurements												
Alkalinity[c]	mg/L	327	428	383	378	10/10	407	420	155	203	339	236
Conductivity[d]	µmhos/cm	1581	2760	2350	2520	10/10	2780	2225	1363	1772	1481	1929
DO[d]	mg/L	1.03	4.93	1.8	1.58	10/10	--	--	--	--	--	2.06
ORP[d]	mV	84	233	175	177	10/10	--	--	75	--	97	143
pH[d]	s.u.	6.08	6.88	6.6	6.58	10/10	6.63	6.71	6.95	6.97	6.67	6.5
Temperature[d]	C	7.8	13.3	10.4	11.1	10/10	12.0	7.6	15.2	3.2	7.6	23.4
Turbidity[d]	NTU	0.68	5.4	2.05	1.26	10/10	1.25	2.46	3.20	178	156	237
Common Ions[e]												
Ca	mg/L	249	397	318	322	10/10	356	297	168	264	267	313
Chloride[c]	mg/L	67.7	165	122	126	10/10	146	146	23.7	36.4	61.3	91.1
Fluoride[c]	µg/L	151	492	276	231	10/10	480	399	451J	497	338	329
Hardness	mg/L	827	1330	1080	1130	10/10	1250	1060	588	878	915	1090
K	mg/L	8.42J	12.5	10.5	10.4	10/10	9.55	7.99	6.47	4.72J	6.10	8.19
Mg	mg/L	46.9	83.5	69.9	74.2	10/10	86.9	77.3	40.9	53.2	60.4	74.2
Na	mg/L	148J	217	182	180	10/10	214	180	72.3	68.5	96.1	135
NO_3+NO_2 as N[c]	µg/L	1340	4550	2760	2660	6/6	3470	4270	86.2	725J	3450	5620
SO_4[c]	mg/L	599	1060	859	879	10/10	918	845	500	726	754	961
TDS[d]	mg/L	1470	2466	1910	1950	10/10	2150	1990	1060	1430	1530	1890
Metals[e]												
As	µg/L	1.0U	4.9J	2.37	1.85	6/10	6.3J	3.6J	3.4J	2.4J	1.3	1.5
Fe	µg/L	5.0U	96.9J	25.5	13.4	5/8	--	--	--	--	7.4U	38.3
Mn	µg/L	31.7	187	111	113	10/10	175	123	96.4	1.0UJ	0.4U	6.6
Mo	µg/L	27.0U	63.4	45.2	47.2	9/10	46.9	36.2J	40.2	27.0J	17.2	14.8
Se	µg/L	16.1J	57.4J	26.7	23.7	10/10	17.2	19.5	3.3J	12.5	54.4	71.3
U	µg/L	376	571	474	479	8/8	452	444	54.6	142	120	102
V	µg/L	65.7	82.2	75.4	75.9	10/10	87.0	66.8	41.5J	41.8J	39.6	40.9
Radiological												
Alpha[c,f]	pCi/L	203	387	288	300	10/10	158	184	30.6	72.3	69.2J	36.2J
Alpha-U[c,g]	pCi/L	0[h]	38.0	5.16	0	10/10	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]
Beta[c]	pCi/L	66.0	207	123	114	10/10	122	81.4	11.4U	43.3	33.2	34.1
U	µg/L	376	571	474	479	8/8	452	444	54.6	142	120	102
U-234[c]	pCi/L	134	223	162	152	10/10	--	159	--	--	--	--
U-235[c]	pCi/L	5.4	13.8UJ	7.79	7.35	7/8	--	8.4	--	--	--	--
U-238[c]	pCi/L	136	219J	163	151	10/10	--	162	--	--	--	--

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[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.[i]Uranium activity results were qualified as unusable ("R")
[j]Uranium activity is below detection limits.

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Alluvial Ground Water -- Downgradient -- 82-08[a]

Analyte	Unit	04/13/99	07/29/99	10/19/99	01/12/00	04/14/00	07/28/00	11/02/00	04/10/01	07/19/01	10/17/01	01/30/02	04/02/02	07/10/02	10/02/02
Field Measurements															
Alkalinity[c]	mg/L	249	242	166	209	224	141	142	100	54	104	95	99	184	285
Conductivity[d]	µmhos/cm	3800	3430	3250	3190	3400	2480	2910	2910	2890	2720	2660	2506	5442	3487
DO[d]	mg/L	--	2.82	0.36	1.82	1.12	0.86	3.3	4.3	--	--	--	--	--	--
ORP[d]	mV	14	56	-38	88	90	189	185	125	--	187	--	147	--	--
pH[d]	s.u.	6.59	6.56	6.13	--	6.35	5.92	5.57	6.25	5.45	5.72	5.81	5.83	6.08	6.44
Temperature[d]	C	8.7	13.7	13.8	10.5	9	13.3	13.2	8.7	13.7	14	7.6	10.76	12.17	14.8
Turbidity[d]	NTU	25.0	>1000	2.0	21.4	1.29	0.66	1.23	0.74	1.73	0.46	0.71	0.76	0.45	1.36
Common Ions[e]															
Ca	mg/L	492	458	368	402	432	387	369	374	348	312	283	283	323	343
Chloride[c]	mg/L	312	0.212J	230	228	252	196	194	191	175	170	125	128	166	170
Fluoride[c]	µg/L	700	36.0U	723	557	764	749	625	825	828	887	536	574	1250	521
Hardness	mg/L	1830	1660	1420	1520	1660	1480	1410	1450	1350	1200	1100	1120	1260	1280
K	mg/L	8.84	8.07	8.49	8.39	7.49	7.34	7.33	6.48	6.87	6.22	5.98	5.63	6.57	7.12
Mg	mg/L	145	125	122	126	140	124	118	126	117	102	96.2	99.3	111	104
Na	mg/L	259	216	186	198	213	192	186	210	197	177	171	175	218	202
NO_3+NO_2 as N[c]	µg/L	1440	2910J	4120	2830J	3650	5030	7790	7130	4880	3860	3530	3110J	4040	3430
SO_4[c]	mg/L	1550	0.254J	1390	1380	1490	1440	1410	704	1370	1350	1160	1120	1190	1240
TDS[d]	mg/L	3230	3000	2720	2910	2900	2670	2500	2620	2540	--	--	--	--	--
Metals[e]															
As	µg/L	3.0J	2.4J	0.4U	0.67	0.38	0.3U	0.45	0.5U	0.5U	0.6U	0.6U	0.39	0.32	0.22
Fe	µg/L	13500	9170	12.8	783	7.4U	9.1U	12.1	1.0U	0.8U	18.4	0.8U	1U	4U	70.4
Mn	µg/L	716	409	39.2	251	9.4	18.2	65.6	27.4	39.9	60.9	58.9	20.2	9.9	64.7
Mo	µg/L	12.6	7.5J	4.5	3.9	9.1	4.6	2.5	0.4U	3U	1.9U	1.5U	1.8U	3.8	1.7
Se	µg/L	12.1	5.4J	4.5	5.8	17.5	12.3	15.5	54.2	37.6	26.4	41.8	44.4	57.9	47
U	µg/L	208	116	21.6	46.5	111	17.1	5.2	3.6	4	3.4	4	6.1	59.4	79.1
V	µg/L	6.6J	6.8J	10	13.6	7.4	4.8	6	6	4.8	5	5	4	4.7	10
Radiological															
Alpha[c,f]	pCi/L	114J	72.6	11.6UJ	24.0	51.4J	23.4	13.2UJ	12.1U	13.4UJ	13.7U	11.7U	11.5U	31.3	35.5
Alpha-U[c,g]	pCi/L	0[h]	0[h]	11.6UJ	0[h]	0[h]	11.7	13.2UJ	12.1U	13.4UJ	13.7U	11.7U	11.5U	0[h]	0[h]
Beta[c]	pCi/L	47.2	46.5	28.7	16.9	36.9	21.1	13.2U	11.9U	10.6U	13.4U	10U	13.2	11.3U	13.0
U	µg/L	208	116	21.6	46.5	111	17.1	5.2	3.6	4	3.4	4	6.1	59.4	79.1
U-234[c]	pCi/L	--	--	--	--	--	--	--	--	1.5J	--	--	--	--	--
U-238[c]	pCi/L	--	--	--	--	--	--	--	--	1.6J	--	--	--	--	--

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[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- 88-85[a]

Analyte	Unit	November 1992 – December 1996[b]																						
		Minimum	Maximum	Average	Median	FOD	10/15/97	04/22/98	10/13/98	01/27/99	08/05/99	10/26/99	01/12/00	04/13/00	07/27/00	10/18/00	01/30/01	04/11/01	07/19/01	10/17/01	01/29/02	04/02/02	07/10/02	10/01/02
Field Measurements																								
Alkalinity[c]	mg/L	338	483	403	402	10/10	404	407	411	347	348	343	384	348	311	--	316	463	348	348	376	327	342	377
Conductivity[d]	µmhos/cm	1418	3420	2450	2500	10/10	2590	2240	3010	3390	3570	3240	3460	3250	2850	--	2880	1829	2450	2240	2180	2060	1927	2015
DO[d]	mg/L	0.55	2.09	1.47	1.5	9/9	--	--	--	--	1.93	0.44	1.08	0.24	0.41	--	1.3	1	0.2	0.3	499	--	0.49	0.9
ORP[d]	mV	0.94	200	126	128	9/9	--	--	--	--	152	90	137	125	196	--	151	190	1000	212	165	127	213	80.8
pH[d]	s.u.	6.02	6.93	6.62	6.7	10/10	6.62	6.76	6.83	7.02	6.33	6.31	--	6.13	6.65	--	6.74	6.73	5.87	6.58	6.61	6.6	6.66	6.6
Temperature[d]	C	7.7	12.5	10.6	10.8	10/10	12.6	9.5	14.0	3.3	14.4	15.1	9.7	8.1	15.1	--	7.7	6.7	13.8	14.4	6.6	7.9	13.76	15.6
Turbidity[d]	NTU	0.37	>1000	103	3.5	10/10	3.22	2.88	2.99	206	3.94	4.66	3.52	1.64	1.52	--	2.67	3.62	1.42	0.12	0.77	152	0.41	3.02
Common Ions[e]																								
Ca	mg/L	261	408	293	283	11/11	322	292	333	373	405	378	371	362	269	321	288	282	272	252	252	251	238	256
Chloride[c]	mg/L	82.6	207	129	127	12/12	143	143	142	177	201J	174	190	182	123	149	172	161	147	110	91.3	89.5	83.7	82.6
Fluoride[c]	µg/L	205	472	303	299	12/12	426	370	403J	386J	479J	587	298	279	410	410	343	308	355	422	376	25.1UJ	25.1UJ	264
Hardness	mg/L	917	1390	1030	1010	11/11	1110	1020	1170	1330	1440	1340	1330	1290	946	1120	1020J	997	962	895	898	913	864	902
K	mg/L	8.65J	12.3	10.1	10.1	11/11	9.93	9.74	12.0	14.8	18.9	18.4	17.1	14.9	16.6	18.1	15.5	14.1	17.1	15.0	11.9	11.6	12.3	12.0
Mg	mg/L	58.6J	90.8	71.5	72.5	11/11	74.2	71.3	81.7	97.4	105	96.6	98.7	93.0	66.7	77.9	73.5J	71.0	68.7	64.6	65.3	69.5	65.5	63.9
Na	mg/L	158J	348	214	211	11/11	198	192	273	331	327	336	318	292	283	295	248	233	222	163	140	140	136	131
NO_3+NO_2 as N[c]	µg/L	1270	3700	2430	2130	7/7	3270	5020	3530	10100J	15500J	19200	16700J	24600	15800	14200	15200	14700	6260	3740	3360	2870	2480	2270
SO_4[c]	mg/L	554	1320	819	806	12/12	836	841	1110	1350	1440J	1260	1220	1130	1040	1060	1050	455	895	844	782	717	663	694
TDS[d]	mg/L	904	2050	1780	1900	12/12	1960	1980	2440	2750	3110	2800	2880J	2610	2210	2380	2290	2170	1880	--	--	--	--	--
Metals[e]																								
As	µg/L	2.0U	20.5	13.3	14	10/11	16.2J	11.0	12.5	7.5J	10.0	9.5	7.8	3.8	8.5	12	7.3	7.7	10.9	10	9.4	8.5	11.6	10.9
Fe	µg/L	4.0U	129	46.4	26.4	6/8	--	--	--	--	5.9U	9U	8.9U	7.4U	9.1U	13.1	11U	1.0U	0.8U	0.8U	0.8U	1U	9.6	0.8U
Mn	µg/L	1.0U	39.4	13.2	4.1	10/11	46.7	33.0	257	716J	499	360	375	155	102	124	153	99.9	91.5	99.4	49.1	9	9.3	1.8
Mo	µg/L	23.5J	59.8	45.4	46	11/11	53.5	43.9J	59.5	78.1	58.9J	53.4	46.2	37.5	50.9	54.6	43.9	38.5	40.4	41.2	24.9	26.6	32.6	35.8
Se	µg/L	2.0UJ	169J	27.4	11.7	9/11	2U	17.1	11.9	15.7	65.1	32.9	61	87	36.6	57.6	112	135	127	75.2	93	99.4	97	90.2
U	µg/L	460	690J	577	567	8/8	560	560	717	837	651	562	745	539	323	402	442	419	393	366	350	374	417	417
V	µg/L	402	458	433	436	11/11	428	374	396	312	371	402	325	304	363	441	295	291	365	385	301	299	375	417
Radiological																								
Alpha[c,f]	pCi/L	197	655	387	358	12/12	159	255	502	491	294	326J	468	333J	167J	244J	299	172	202J	159	174	194J	236	276
Alpha-U[c,g]	pCi/L	0[h]	528[i]	67.8	0.8	12/12	0[h]	0[h]	9.4	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	12.0	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]
Beta[c]	pCi/L	40.0	282	140	143	12/12	141	98.1	214	226	187	177	132	173	111	115	65.0	140	87.1	82.4	65.7	117	112	68.6
U	µg/L	460	690J	577	567	8/8	560	560	717	837	651	562	745	539	323	402	442	419	393	366	350	374	417	417
U-234[c]	pCi/L	113	245J	183	182	11/11	--	193	--	--	--	--	--	--	--	--	143	--	130J	--	--	--	--	--
U-235[c]	pCi/L	7.4J	13.9	9.69	9.5	8/9	--	10.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U-238[c]	pCi/L	115	256	189	200	11/11	--	204	--	--	--	--	--	--	--	--	144	--	152J	--	--	--	--	--

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[i]*Uranium activity results were qualified as unusable ("R").*
[j]Uranium activity is below detection limits

Alluvial Ground Water - -Downgradient -- 92-07[a]

Analyte	Unit	November 1992 – December 1996[b]																					
		Minimum	Maximum	Average	Median	FOD	10/08/98	01/28/99	04/12/99	08/05/99	10/27/99	01/12/00	04/18/00	07/27/00	10/18/00	01/30/01	04/11/01	07/19/01	10/16/01	01/29/02	04/02/02	07/10/02	10/01/02
Field Measurements																							
Alkalinity[c]	mg/L	299	460	401	401	10/10	320	248	270	318	307	327	269	247	315	274	261	243	305	281	294	272	281
Conductivity[d]	µmhos/cm	520	2740	2060	2370	10/10	2810	2490	2620	3470	3220	3470	3150	3010	3330	2940	2610	2370	2270	2063	2236	2007	2176
DO[d]	mg/L	0.81	220	24.3	2.66	10/10	--	--	--	4.56	2.96	2.5	2.96	3.45	3.1	0.8	0.7	2.6	1.5	0.37	--	0.63	0.3
ORP[d]	mV	131	240	193	212	9/9	-55	--	237	151	109	167	103	146	194	145	149	55	192	73.9	137	195.1	111
pH[d]	s.u.	6.26	6.83	6.61	6.68	10/10	6.54	6.68	6.75	6.73	6.45	--	6.66	6.66	6.23	6.79	6.67	6.02	6.64	6.61	6.56	6.77	6.58
Temperature[d]	C	7.6	14.9	11	10.8	10/10	13.9	8.5	11.8	12.6	12.7	10.9	8.7	16.3	13.2	10.2	8.7	11.2	13	10.62	11.02	11.61	13.4
Turbidity[d]	NTU	0.19	2.07	0.701	0.47	10/10	0.50	28.8	41.6	1.33	0.50	2.53	0.83	3.84	1.43	0.31	4.2	1.91	0.2	0.9	0.73	1.31	3.83
Common Ions[e]																							
Ca	mg/L	123	299	245	255	10/10	284	256	280	397	340	333	325	309	344	265	358	214	214	216	230	203	223
Chloride[c]	mg/L	18.9	117	86.2	89	10/10	81.6	62.7	86.7	184J	125	135	117	92.5	94.2	92.0	94.9	83.2	87.3	71.8	73.3	67.3	69.4
Fluoride[c]	µg/L	195	483	334	314	10/10	445J	477	429	443J	486	328	348	373	437	417	355	365	476	315J	274	513J	280
Hardness	mg/L	408	1010	824	854	10/10	973	865	960	1340	1160	1160	1130	1070	1200	934J	1280	751	745	758	817	733	784
K	mg/L	16.0	23.2	20.5	21	10/10	24.6	18.9	21.0	25.9	25.2	25.8	23.4	24.2	28.0	24.5	27.5	21.0	22.0	21.2	20.5	20.0	20.9
Mg	mg/L	24.4	63.2	51.7	53.3	10/10	64.0	54.8	63.3	84.8	76.4	79.0	77.0	73.5	82.3	66.1J	93.1	52.7	51.2	53.0	59.0	54.8	55.2
Na	mg/L	92.1	276	222	230	10/10	314	218	292	340	382	391	349	356	394	317	402	264	220	201	180	171	209
NO_3+NO_2 as N[c]	µg/L	352	1200	844	848	6/6	638	3200J	5830	14600J	26000	26900J	36600	27000	26500	19300	17800	10700	6040	5430	5080J	3980	4430
SO_4[c]	mg/L	250	975	767	796	10/10	1230J	941	1100	1370J	1330	1310	1280	1390	1430	1220	492	907	919	821	840	785	844
TDS[d]	mg/L	792	2110	1740	1800	10/10	2270	1960	2270	3020	2700	2880J	2630	2700	2820	2390	2180	2850	--	--	--	--	--
Metals[e]																							
As	µg/L	8.0J	20.2J	14.3	14.2	10/10	12.1	7.7J	7.2J	10.0	9.2	7.9	8	7.2	9.6	7	7.9	8.2	8.5	7.6	7.9	8.7	9.1
Fe	*µg/L*	*5.0U*	*60.0J*	*17.4*	*8.95*	*5/8*	--	--	*15.3J*	*5.9U*	*9.0U*	*8.9U*	*7.4U*	*9.1U*	*11.7U*	*11U*	*18.9*	*0.8U*	*0.8U*	*0.8U*	*1U*	*29.2*	*0.8U*
Mn	µg/L	47.2	947	376	315	10/10	957	755J	987	28.7	61.2	75.4	209	378	481	464	754	466	566	599	558	579	543
Mo	µg/L	122	170	146	144	10/10	134	122	133	71.0J	74.9	82.7	73.3	82.8	94.9	114	95.6	89.7	104	87	90	88.3	99.7
Se	µg/L	3.3UJ	37.9J	12.3	7.4	9/10	8.8	14.1	14.8	54.2	9	10	14.4	4.2	6.3	16.6	27	49.6	44.8	62.6	93.7	83.1	80.5
U	µg/L	678	1420J	1090	1180	8/8	1250	884	1180	1120	602	788	593	603	709	647	1170	576	620	645	661	747	806
V	µg/L	351	467	416	431	10/10	446	304	294	366	416	366	302	327	394	351	291	332	393	335	321	316	395
Radiological																							
Alpha[c,f]	pCi/L	338J	1070	806	852	10/10	807	553	782J	679	365J	571	484	275J	607J	540	528	288J	450	456	528	511	586
Alpha-U[c,g]	pCi/L	0[h]	231	79.2	72.7	10/10	0[h]	0[h]	0[h]	0[h]	0[h]	29.6	76.6	0[h]	120J	112	0[h]	0[h]	24.1	12.9	73.9	0[h]	32.3
Beta[c]	pCi/L	114	561	287	269	10/10	387	247	254	341	200	143	214	197	250	102	211	122	138	95.1	170	205	127
U	µg/L	678	1420J	1090	1180	8/8	1250	884	1180	1120	602	788	593	603	709	647	1170	576	620	645	661	747	806
U-234[c]	pCi/L	259	468	375	393	10/10	--	--	--	--	--	--	--	--	--	214	--	183J	--	--	--	--	--
U-238[c]	pCi/L	242	476	387	404	10/10	--	--	--	--	--	--	--	--	--	214	--	214J	--	--	--	--	--

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- 92-08[a]

Analyte	Unit	November 1992 – December 1996[b]																			
		Minimum	Maximum	Average	Median	FOD	01/26/99	04/12/99	07/28/99	10/26/99	01/10/00	04/13/00	07/26/00	11/02/00	01/29/01	04/10/01	07/19/01	10/16/01	04/02/02	07/11/02	10/07/02
Field Measurements																					
Alkalinity[c]	mg/L	274	419	361	366	10/10	361	283	249	313	333	301	270	261	319	326	314	340	328	308	346
Conductivity[d]	µmhos/cm	1565	2390	2100	2140	10/10	2330	2030	1620	2200	2490	2190	1998	2190	2580	2390	2400	2420	2236	4049	2262
DO[d]	mg/L	0.47	4.68	1.3	0.8	10/10	--	--	0.78	2.87	1.83	2.16	0.13	3.43	2.1	2.7	--	--	--	--	--
ORP[d]	mV	0.80	267	159	180	10/10	--	199	73	112	186	90	102	161	22	158	86	110	158	--	--
pH[d]	s.u.	6.26	6.88	6.66	6.7	10/10	6.93	7.37	6.88	6.61	6.25	6.69	6.92	6.7	6.75	6.62	6.28	6.59	6.48	6.52	6.53
Temperature[d]	C	6.6	11.8	9.52	10.2	10/10	7.7	10.3	9.9	12.4	9.5	9.8	11.2	11.6	10.8	9	11.1	11.7	11.13	11.44	13.2
Turbidity[d]	NTU	0.10	4.68	1	0.53	10/10	0.69	1.35	4.67	3.61	6.36	1.79	1.14	0.86	1.66	1.1	1.07	0.51	1.29	0.92	1.13
Common Ions[e]																					
Ca	mg/L	231	327	277	279	12/12	286	249	241	311	349	293	265	312	360	326	329	319	294	275	298
Chloride[c]	mg/L	42.0	122	79.6	79.4	12/12	88.6	69.8	79.3	90.4	119	87.4	69.5	81.8	127	113	118	120	90.6	91.2	107
Fluoride[c]	µg/L	103	340	216	207	12/12	370J	281	350	266	283	244	286	272	260	255	280	359	145	242	289
Hardness	mg/L	779	1080	918	922	12/12	953	829	802	1040	1170	978	888	1030	1210J	1100	1110	1070	1000	937	1010
K	mg/L	9.82	13.4	11.2	11.3	12/12	12.3	10.5	10.5	12.4	13.3	11.5	11.3	12.1	13.1	11.9	12.3	12.3	12.3	11.3	11.8
Mg	mg/L	49.1	63.8	55	54.5	12/12	57.9	50.3	48.5	63.6	72.7	59.8	55.0	61.5	76.6J	70.1	70.0	66.2	65.0	60.7	64.6
Na	mg/L	130	165	150	153	12/12	186	169	148	154	157	152	134	134	143	139	148	145	152	149	147
NO_3+NO_2 as N[c]	µg/L	152	1400	788	816	8/8	729J	1140	1570J	892	1310J	2150	3520	2580	3560	4040	5790	5360	2540J	3370	3280
SO_4[c]	mg/L	634	831	729	727	12/12	873	731	696	832	948	874	793	876	1070	454	897	981	843	815	872
TDS[d]	mg/L	1420	1910	1650	1630	12/12	1820	1630	1620	1840	2170	1780	1630	1780	2180	2000	1990	--	--	--	--
Metals[e]																					
As	µg/L	1.0U	4.0UJ	1.05	1	0/12	0.21J	1.0U	1.0U	0.4U	0.4U	0.22	0.3U	0.2U	0.2U	0.5U	0.5U	0.6U	0.27	0.16	0.1U
Fe	µg/L	4.0U	205	28.2	3	3/9	--	5.0U	5.9U	9.0U	8.9U	8.4	9.1U	11.7U	11U	1.0U	0.8U	0.8U	1U	4U	0.8U
Mn	µg/L	862	1210	1040	1040	12/12	1120J	810	828	1100	1180	393	456	777	1050	754	625	630	468	427	602
Mo	µg/L	56.2	96.0	79.4	82.2	12/12	74.9	63.1	59.7	67.9	64	36.2	33.7	45.6	43.4	33.3	23.9	28.4	25.8	25.1	26.4
Se	µg/L	5.3J	24.9	15.9	17.4	12/12	14.3	26.6	34.8J	31.4	24.6	190	54.4	30.7	33.2	69.8	123	68	90.3	96.2	70.4
U	µg/L	459	713	603	594	9/9	452	347	311	412	467	337	227	276	363	316	281	292	257	241	261
V	µg/L	2.4J	8.0U	3.05	2.5	3/12	2.1J	1.2J	1.9J	2	1.0U	1.3	1.3U	1.5	1.9	2.4	2.3	2.7	1.9	1.6	2.8
Radiological																					
Alpha[c,f]	pCi/L	176	492J	366	368	12/12	216	242J	147	182J	190	161J	107J	146J	177	163	149J	128	136	129	143
Alpha-U[c,g]	pCi/L	0[h]	10.0J	0.833	0	12/12	0[h]	3.6J	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]
Beta[c]	pCi/L	100	285	160	134	12/12	157	81.1	108	112	102	93.2	81.2	82.9	60.8	100	36.5	54.3	78.8	11.6U	49.0
U	µg/L	459	713	603	594	9/9	452	347	311	412	467	337	227	276	363	316	281	292	257	241	261
U-234[c]	pCi/L	169	256	221	227	12/12	--	--	--	--	--	--	--	--	128	--	90.9J	--	--	--	--
U-238[c]	pCi/L	172	255	220	219	12/12	--	--	--	--	--	--	--	--	121	--	117J	--	--	--	--

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[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]*Gross alpha minus uranium activity. Result rounded as appropriate.*
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- 92-09[a]

Analyte	Unit	November 1992 – December 1996[b]																
		Minimum	Maximum	Average	Median	FOD	10/15/97	04/21/98	10/06/98	04/13/99	07/28/99	10/26/99	04/12/00	10/31/00	04/10/01	10/16/01	04/03/02	10/08/02
Field Measurements																		
Alkalinity[c]	mg/L	330	427	382	387	11/11	340	308	335	326	373	396	356	347	367	356	427	368
Conductivity[d]	µmhos/cm	2130	3010	2470	2390	11/11	2730	2214	2660	2620	2592	2630	2610	2540	2530	2400	2524	2404
DO[d]	mg/L	0.26	1.58	0.852	0.83	11/11	--	--	--	--	--	0.49	0.47	--	0.9	--	--	--
ORP[d]	mV	-33	88	26.3	20	11/11	--	--	-47	7	--	-89	54	-52	9	-26	37	--
pH[d]	s.u.	6.41	7.08	6.87	6.89	11/11	7.00	6.86	6.86	7.28	6.61	6.72	6.91	7.35	6.93	6.9	6.87	6.89
Temperature[d]	C	7.8	12.8	10.3	11	11/11	12.7	7.9	12.5	8.8	10.6	11.5	8.8	11.9	8.1	13.6	9.77	12.3
Turbidity[d]	NTU	0.41	1.71	0.879	0.8	11/11	0.39	0.60	0.42	2.54	1.19	0.23	1.22	20.9	3.41	3.83	6.76	4.27
Common Ions[e]																		
Ca	mg/L	182	299	269	272	15/15	376	346	336	338	--	369	342	341	308	296	316	299
Chloride[c]	mg/L	70.5	117	91.5	88.7	15/15	121	136	114	118	--	120	105	110	110	114	101	107
Fluoride[c]	µg/L	62.0	239	137	130	15/15	217	178	325	218J	--	186	12U	187	149	276	25.1U	188J
Hardness	mg/L	647	1030	944	957	15/15	1300	1230	1200	1200	--	1300	1220	1200	1090	1050	1130	1060
K	mg/L	0.770J	2.51J	1.17	1.25	10/15	1.14	0.862J	1.20J	1.20J	--	1.25	1.29	1.59	1.27	1.66	1.78	1.85
Mg	mg/L	46.7	72.9	66.3	68.3	15/15	87.7	88.7	88.1	87.1	--	92.9	88.7	84.4	78.6	74.5	82.7	76.1
Na	mg/L	178	286	224	223	15/15	195	168	187	185	--	190	186	191	179	177	196	184
NO_3+NO_2 as N[c]	µg/L	9.8	93.1	33.3	20.1	10/11	10.7	3.3U	11.0	4.0U	--	16.2	32.4U	32.4UJ	6.2	152	4.9UJ	12.3
SO_4[c]	mg/L	636	990	854	871	15/15	1030	1070	1060	1020	--	1000	1010	986	1020	1030	969	956
TDS[d]	mg/L	1628	2140	1910	1910	15/15	2180	2170	2270	2170	--	2220	2140	2070	2140	--	--	--
Metals[e]																		
As	µg/L	0.44U	4.3J	1.48	1.5	4/15	2.2UJ	1.0U	1.2J	1.2J	1.6J	1.4	1.2	1.8	1.4	1.3	1.6	1.6
Fe	µg/L	774	1340J	1030	983	11/11	--	--	--	1420	1560	1560	1570	1730	1700	1540	1930	1870
Mn	µg/L	96.2	244	143	130	15/15	121	77.3	97.6	123	131	126	145	181	155	191	216	218
Mo	µg/L	0.56U	27.0U	4.4	2.9	11/15	3.2	2.5J	3.2J	3.4J	3.3J	1.5	2.7	2.3	2.5	2.2	1.8U	1.7U
Se	µg/L	1.0U	6.0J	1.25	1	1/15	2.2U	1.0U	1.0U	1.0U	1.0U	0.1	0.2U	0.1U	0.3U	0.3U	0.2U	0.1U
U	µg/L	244	431	330	329	12/12	266	255	245	270	289	298	271	283	281	265	272	260
V	µg/L	1.1U	8.0U	2.45	2.5	0/15	1.1U	1.0U	2.0U	1.0U	0.60U	1U	0.4U	1.3U	0.4U	0.3U	0.3U	0.3U
Radiological																		
Alpha[c,f]	pCi/L	90.4	410	236	227	15/15	128	160	121J	125J	--	147J	146J	126J	147	137	166	178
Alpha-U[c,g]	pCi/L	0[h]	319[i]	46.4	20	15/15	0[h]	0[h]	0[h]	0[h]	--	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]
Beta[c]	pCi/L	29.4U	151	79.4	75	13/15	62.9	30.7	73.3	56.2	--	84.9	85.4	82.7	76.2	43.5	72.3	43.1
U	µg/L	244	431	330	329	12/12	266	255	245	270	289	298	271	283	281	265	272	260
U-234[c]	pCi/L	77.3	147	109	104	14/14	--	85.8	--	--	--	--	--	--	--	--	--	--
U-235[c]	pCi/L	3.4	11.4	5.06	4.5	12/12	--	4.7	--	--	--	--	--	--	--	--	--	--
U-238[c]	pCi/L	76.9	145	105	99.8	14/14	--	94.4	--	--	--	--	--	--	--	--	--	--

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[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- 92-11[a]

Analyte	Unit	November 1992 – December 1996[b]																								
		Minimum	Maximum	Average	Median	FOD	10/21/97	04/22/98	10/07/98	01/25/99	04/13/99	07/29/99	10/20/99	01/12/00	04/18/00	08/02/00	11/02/00	01/30/01	04/12/01	07/11/01	10/15/01	01/30/02	04/02/02	07/10/02	10/02/02
Field Measurements																										
Alkalinity[c]	mg/L	346	453	405	411	10/10	408	412	415	404	378	354	445	396	312	377	307	371	360	309	271	382	308	335	394
Conductivity[d]	µmhos/cm	1548	3120	2610	2570	9/9	2750	2700	3620	3100	3880	3230	3560	3370	3110	5270	2600	3200	3040	2300	1994	1980	1920	3458	1883
DO[d]	mg/L	0.41	1.40	0.678	0.605	10/10	--	--	--	--	--	--	3.9	1.29	0.93	0.4	--	4.1	5.3	0.8	3.3	1.1	--	4.49	1.5
ORP[d]	mV	110	250	186	193	10/10	--	--	130	--	185	163	-34	147	102	212	160	161	117	80	133	168	177	182	263
pH[d]	s.u.	6.41	6.92	6.7	6.74	10/10	6.70	6.50	6.86	6.69	6.77	6.77	6.66	--	6.54	6.57	6.54	6.72	6.8	5.37	6.6	6.87	6.63	6.51	6.6
Temperature[d]	C	8.8	13.0	10.7	10.6	10/10	12.1	9.8	12.4	11.8	13.1	18.4	12.7	11.5	9.8	13.7	12.6	9.5	8.2	10.4	13.5	9	11.36	15.92	12.2
Turbidity[d]	NTU	0.57	4.83	2.23	1.91	10/10	1.19	0.37	0.39	3.23	4.33	542	3.53	1.03	0.95	1.34	1.55	0.64	1.38	0.92	0.74	1.11	8.78	0.46	1.69
Common Ions[e]																										
Ca	mg/L	193	284	240	238	13/13	262	281	300	312	473	419	372	357	358	385	297	339	347	257	245	255	252	245	254
Chloride[c]	mg/L	66.2	128	95.6	95.6	13/13	106	114	120	191	274	210	230	207	208	221	149	226	213	123	91.9	85.7	78.1	69.6	73.4
Fluoride[c]	µg/L	280	670	427	384	13/13	625	541	595	680	429	455	578	467	408	447	441	436	469	424	437	499	353	446	25.1U
Hardness	mg/L	652	980	824	825	13/13	897	971	1060	1100	1660	1470	1340	1280	1270	1360	1040	1210J	1230	904	848	884	875	847	870
K	mg/L	21.2	33.6	27.2	27.6	13/13	29.7	29.7	35.5	36.1	37.5	32.1	34.2	25.6	20.7	19.8	17.3	16.2	14.5	13.0	11.3	10.7	9.45	8.35	8.93
Mg	mg/L	41.2	67.0	54.7	54.6	13/13	59.0	65.3	76.0	78.1	116	104	98.7	94.9	90.7	96.8	72.9	89.1J	87.9	63.7	57.3	60.1	59.6	57.2	57.2
Na	mg/L	217	369	294	296	13/13	297	332	462	334	333	324	336	306	284	267	249	245	233	168	132	114	110	104	110
NO_3+NO_2 as N[c]	µg/L	661	1770	1070	997	8/8	876	1010	35.6	7880J	20600	16900J	15500	15500J	22100	16200	23300J	13900	14700	5340	4700	2950	2650J	1950	1970
SO_4[c]	mg/L	643	1140	886	904	13/13	965	1160	1490	1190	1490	1270	1310	1190	1100	1220	966	1120	506	769	767	718	685	609	628
TDS[d]	mg/L	1500	2868	2000	1930	13/13	1990	2430	2930	2360	3340	3160	2990	2780	2480	2700	2090	2520	2460	1780	--	--	--	--	--
Metals[e]																										
As	µg/L	28.3J	42.2J	35	34.3	13/13	39.5J	28.0	32.6J	15.7	14.1	15.3	18.3	17.9	18.1	14.3	16.1	13.6	14.4	15.2	16.2	17.9	15.8	12.8	16.5
Fe	µg/L	5.0U	288	98.4	75.9	9/10	--	--	--	--	9.7J	5.9U	9U	8.9U	7.4U	9.1U	11.7U	11U	15.5	2.1	0.8U	0.8U	1U	15.1	0.8U
Mn	µg/L	601	4310	1940	1630	13/13	4060	2480	5920	5380J	6340	5610	4810	2040	1210	1520	77.3	11.2	2.6	0.96	0.66	0.1U	1	2.5	1.3
Mo	µg/L	144	264	212	219	13/13	253	185	279	188	137	110	115	84.3	54.8	56.1	43	46.7	31.4	29.9	25.8	26.2	26.3	25.2	25
Se	µg/L	1.0U	50.8J	11.6	9.1	10/13	7.0	6.1	9.6	19.3	49.9	49.0J	54.6	104	142	133	122	173	197	125	106	104	113	88.7	85
U	µg/L	819	2870J	1760	1560	11/11	1620	1950	1770	1400	1670	1210	1110	677	492	566	270	423	370	307	254	292	321	362	317
V	µg/L	756	1000	881	885	13/13	953	762	842	717	541	543	615	625	574	560	578	556	494	534	577	530	502	518	562
Radiological																										
Alpha[c,f]	pCi/L	600	2330	1370	1280	13/13	1000	1330	1080J	995	807J	639	643J	342	282	186	126	191	186	126J	130	151	210	199	161
Alpha-U[c,g]	pCi/L	0[h]	1390[i]	324	135	13/13	0[h]	0[h]	0[h]	33.2	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]
Beta[c]	pCi/L	110	1040	440	400	13/13	433	360	525	399	380	455	322	131	166	186	91.1	60.4	107	44.1	44.6	54.9	85.3	64.0	54.2
U	µg/L	819	2870J	1760	1560	11/11	1620	1950	1770	1400	1670	1210	1110	677	492	566	270	423	370	307	254	292	321	362	317
U-234[c]	pCi/L	304	968	562	500	12/12	--	647	--	--	--	--	--	--	--	--	--	137	--	--	--	--	--	--	--
U-235[c]	pCi/L	18.6	51.5	29.5	26.1	9/9	--	34.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U-238[c]	pCi/L	317	986	574	510	12/12	--	681	--	--	--	--	--	--	--	--	--	135	--	--	--	--	--	--	--

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[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- 95-01[a]

Analyte	Unit	November 1992 – December 1996[b]														
		Minimum	Maximum	Average	Median	FOD	10/14/97	04/21/98	10/06/98	04/13/99	10/25/99	04/10/00	11/01/00	04/10/01	10/17/01	10/08/02
Field Measurements																
Alkalinity[c]	mg/L	183	206	193	192	4/4	179	177	185	166	220	213	175	222	167	195
Conductivity[d]	µmhos/cm	485	614	577	605	4/4	612	570	598	577	598	6730	610	732	603	599
DO[d]	mg/L	0.18	2.99	1.09	0.6	4/4	--	--	--	--	0.41	0.57	6.4	0.4	--	--
ORP[d]	mV	-65	225	53	26	4/4	--	--	-57	11	-80	48	-89	-18	-50	--
pH[d]	s.u.	7.01	7.18	7.14	7.18	4/4	7.12	7.01	7.07	7.32	6.86	7	7.35	7.17	7.2	7.19
Temperature[d]	C	10.0	16.4	12.5	11.7	4/4	13.1	10.1	13.2	10.5	12.5	9.2	12.3	8.8	13.1	14
Turbidity[d]	NTU	0.77	3.91	2.51	2.68	4/4	1.23	0.93	0.77	4.62	2.68	2.12	4.98	4.7	2.13	4.51
Common Ions[e]																
Ca	mg/L	37.4	40.1	39.3	39.6	5/5	39.8	36.2	36.6	38.8	39.0	48.1	42.2	45.8	36.9	36.8
Chloride[c]	mg/L	5.17	5.33	5.25	5.28	5/5	5.67	5.61	5.66	5.96	6.03	8.18	7.03	8.41	7.04	6.76
Fluoride[c]	µg/L	205	317	269	273	5/5	277	281	254	257	265	260	276	222	400	189
Hardness	mg/L	136	150	146	147	5/5	144	133	136	143	144	177	154	171	136	138
K	mg/L	2.15J	3.09J	2.78	2.84	5/5	2.79	2.67J	2.84J	2.93J	2.96	3.14	2.98	2.81	2.64	2.83
Mg	mg/L	10.3	12.1	11.5	11.8	5/5	10.8	10.4	10.8	11.1	11.3	13.9	11.7	13.8	10.7	11.1
Na	mg/L	67.8	78.2	74.4	76.1	5/5	71.8	69.5	70.6	77.7	73.7	79.0	73.0	76.8	70.0	69.3
NO_3+NO_2 as N[c]	µg/L	7.0U	18.7	7.58	5	2/5	21.1	3.3U	7.2	104J	12.1	32.4U	32.4UJ	5.4	944	68.1
SO_4[c]	mg/L	112	115	113	113	5/5	113	112	111	111	110	114	117	150	126	123
TDS[d]	mg/L	345	378	368	373	5/5	367	390	367	360	362	410	385	460	--	--
Metals[e]																
As	µg/L	0.44U	5.2J	3.24	4	4/5	4.1J	1.9J	2.5J	1.9J	2.6	3.5	2.6	3.2	2.4	2
Fe	µg/L	--	--	--	--	--	--	--	--	684	673	805	644	1280	555	634
Mn	µg/L	205	280	231	211	5/5	200	189	192	200	210	336	237	354	193	194
Mo	µg/L	0.56U	1.5J	0.876	0.55	2/5	1.1U	1.0U	1.2J	2.5J	0.8U	0.4U	0.42	0.4U	1.9U	1.7U
Se	µg/L	1.1UJ	2.2UJ	0.89	0.85	0/5	2.2U	1.0U	1.0U	1.0U	0.1U	0.2U	0.1U	0.3U	1.2	0.1U
U	µg/L	0.42J	1.3J	0.767	0.58	3/3	1.1U	1.0U	1.0U	1.3J	1.6	3.7	2.6	2.1	0.26	0.47
V	µg/L	1.1J	7.7U	2.99	3.35	1/5	1.1U	1.0U	2.0U	1.0U	1U	3.5	1.3U	0.4U	0.47	0.3U
Radiological																
Alpha[c,f]	pCi/L	4.4U	13.3UJ	6.03	6.65	3/5	3.5	3.4U	5.4J	2.3UJ	4.7UJ	2.5UJ	7.8U	5.2	4.0UJ	4.4U
Alpha-U[c,g]	pCi/L	4.1	13.3UJ	5.59	6.1	3/5	3.5[j]	3.4U	5.4[j]	2.3UJ	4.7UJ	2.5UJ	7.8U	4.2	4.0UJ	4.4U
Beta[c]	pCi/L	4.6U	12.2U	4.13	4.6	1/5	4.3	3.7U	5.9	3.1	4.8U	4.8	7.5U	4.0U	5.1	5.0U
U	µg/L	0.42J	1.3J	0.767	0.58	3/3	1.1U	1.0U	1.0U	1.3J	1.6	3.7	2.6	2.1	0.26	0.47
U-234[c]	pCi/L	0.37	1.0	0.552	0.41	5/5	1.0U	1.5J	2.0U	0.80U	0.80U	1.1U	0.52U	0.40U	--	--
U-235[c]	pCi/L	0.020	1.1U	0.134	0.025	1/5	1.1U	0.40U	0.40U	0.40U	--	--	--	--	--	--
U-238[c]	pCi/L	0.25	1.1U	0.33	0.3	4/5	1.1U	0.40U	0.40U	0.40U	0.63	1.5	1.2	1.0	--	--

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- 95-03[a]

Analyte	Unit	November 1992 – December 1996[b]															
		Minimum	Maximum	Average	Median	FOD	10/15/97	04/21/98	10/06/98	04/13/99	07/28/99	10/25/99	04/10/00	10/31/00	04/10/01	10/11/01	10/08/02
Field Measurements																	
Alkalinity[c]	mg/L	237	258	250	252	4/4	239	225	228	242	198	237	234	225	244	235	237
Conductivity[d]	µmhos/cm	1602	1690	1650	1650	4/4	1607	1403	1535	1526	1512	1475	1519	1490	1490	1353	1415
DO[d]	mg/L	0.11	1.43	0.758	0.745	4/4	--	--	--	--	--	0.31	0.57	--	2.5	--	--
ORP[d]	mV	-80	216	2	-64	4/4	--	--	-45	-36	--	-100	23	-84	0	-75	--
pH[d]	s.u.	6.97	7.32	7.11	7.08	4/4	7.12	6.97	7.01	7.67	7.02	6.84	6.92	7.16	8.02	7.27	7.13
Temperature[d]	C	10.1	14.6	11.7	11	4/4	12.0	9.1	12.3	9.4	11.7	12.1	9	11.7	8	11.8	14.3
Turbidity[d]	NTU	1.18	4.53	2.47	2.08	4/4	1.34	0.20	2.46	4.90	2.69	2.82	4.44	10.2	1.97	3.76	2.1
Common Ions[e]																	
Ca	mg/L	165	168	167	167	5/5	164	147	147	151	--	148	151	147	135	145	137
Chloride[c]	mg/L	79.0	82.9	80.9	80.7	5/5	74.1	73.7	70.2	66.2	--	66.4	67.8	73.6	2.85	72.0	67.9
Fluoride[c]	µg/L	135	184	163	170	5/5	188	177	225	169J	--	217	243	12.5U	230	259	550
Hardness	mg/L	624	668	655	660	5/5	629	580	582	594	--	586	597	586	537	570	546
K	mg/L	2.49J	3.24J	3.03	3.17	5/5	3.22	3.13J	3.32J	3.24J	--	3.26	3.17	3.40	2.86	3.05	3.09
Mg	mg/L	51.6	60.4	57.8	59	5/5	53.3	51.7	52.2	52.6	--	52.5	53.3	53.1	48.5	50.4	49.6
Na	mg/L	110	128	123	126	5/5	113	110	111	118	--	107	111	110	106	106	102
NO_3+NO_2 as N[c]	µg/L	7.0U	18.2	9.1	3.5	2/5	16.8	3.3U	4.0U	90.1J	--	12U	32.4U	32.4UJ	4.7U	100	16.1
SO_4[c]	mg/L	522	535	531	534	5/5	516	517	491	468	--	471	478	488	76.9	512	475
TDS[d]	mg/L	1170	1210	1190	1190	5/5	1140	1140	1130	1100	--	1120	1080	1090	1100	--	--
Metals[e]																	
As	µg/L	0.44U	1.1U	0.594	0.55	1/5	2.2UJ	1.0U	1.0UR	1.0U	1.0U	0.4U	0.2U	0.2U	0.5U	0.6U	0.1U
Fe	µg/L	--	--	--	--	--	--	--	--	1370	5.9U	1290	1320	1280	1200	1250	1180
Mn	µg/L	400	434	420	421	5/5	392	368	364	367	374	361	368	366	332	347	336
Mo	µg/L	1.1U	7.1J	4.3	6.5	3/5	6.6	5.9J	6.4J	6.7J	5.5J	4	5.5	6.4	4.6	3.1	4.4
Se	µg/L	1.1UJ	2.2UJ	0.94	1.1	0/5	2.2U	1.0U	1.0U	1.0U	1.0U	0.1U	0.2U	0.1U	0.3U	0.3U	0.1U
U	µg/L	5.9	6.2	6.05	6.05	2/2	7.0	6.5	7.1	7.6	7.0	7.5	7.8	8.1	7.5	6.8	7.4
V	µg/L	1.1U	7.7U	2.67	2.8	0/5	1.1U	1.0U	2.0U	1.0U	0.60U	1U	0.40U	1.3U	0.4U	0.3U	0.3U
Radiological																	
Alpha[c,f]	pCi/L	9.1U	39.7UJ	12.7	13.1	0/5	10.8	11.8	11.0UJ	10.2UJ	--	11.7UJ	10.5J	8.2UJ	9.4	10.8UJ	9.2
Alpha-U[c,g]	pCi/L	9.1U	39.7UJ	12.7	13.1	0/5	8.4	9.4	11.0UJ	10.2UJ	--	11.7UJ	7.2J	8.2UJ	2.1	10.8UJ	4.1
Beta[c]	pCi/L	11.5U	40.1U	13.9	15.5	0/5	9.3U	9.2U	14.7	9.8U	--	13.5	9.8	9.9	7.5U	11.5U	10.1
U	µg/L	5.9	6.2	6.05	6.05	2/2	7.0	6.5	7.1	7.6	7.0	7.5	7.8	8.1	7.5	6.8	7.4
U-234[c]	pCi/L	1.0U	3.8	2.4	2.6	4/5	1.0U	1.0U	3.6	3.1	--	2.4	1.1U	0.52U	3.9	--	--
U-235[c]	pCi/L	0.060U	1.1U	0.366	0.55	2/5	1.1U	0.40U	0.40U	0.40U	--	--	--	--	--	--	--
U-238[c]	pCi/L	2.1	2.6	2.38	2.4	5/5	2.4	2.4	2.7	2.6	--	2.8	3.3	2.9	3.4	--	--

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[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- MW00-06[a]

Analyte	Unit	08/02/00	11/01/00	01/30/01	04/10/01	07/19/01	10/16/01	01/30/02	04/02/02	07/10/02	10/02/02
Field Measurements											
Alkalinity[c]	mg/L	172	172	163	104	92	117	75	131	165	210
Conductivity[d]	µmhos/cm	3030	2940	2720	2390	2080	1805	1841	1671	3206	1915
DO[d]	mg/L	0.7	--	1.5	0.9	--	--	--	--	--	--
ORP[d]	mV	-68	164	97	211	69	--	--	132	--	--
pH[d]	s.u.	6.63	6.73	6.4	6.4	5.98	6.33	6.44	6.41	6.44	6.51
Temperature[d]	C	11.6	11	9.8	8.9	11.3	12.2	7	12.17	11.73	12.4
Turbidity[d]	NTU	13.2	334	1	3.94	1.14	0.56	1.71	6.47	1.46	1.83
Common Ions[e]											
Ca	mg/L	208	273	217	167	150	111	123	121	131	159
Chloride[c]	mg/L	51.1	104	108	134	127	99.3	77.9	85.8	76.5	74.6
Fluoride[c]	µg/L	363	354	296	241	280	285	211	258	348	239
Hardness	mg/L	748	974	786J	630	584	436	505	524	556	618
K	mg/L	11.6	18.4	17.4	14.1	13.9	13.2	15.0	13.8	14.8	16.4
Mg	mg/L	55.5	71.1	59.2J	51.8	50.9	38.6	48.1	53.9	55.6	53.7
Na	mg/L	145	330	308	265	243	191	178	166	173	199
NO_3+NO_2 as N[c]	µg/L	2340J	22300	16400	7280	3000	2660	2400	969J	2220	3590
SO_4[c]	mg/L	818	1220	1150	459	837	715	697	621	642	722
TDS[d]	mg/L	1540	2390	2200	1880	1560	--	--	--	--	--
Metals[e]											
As	µg/L	2.9	4.1	3.3	2.6	2.9	3	3.1	2.8	2.5	3.6
Fe	µg/L	9.1U	11.7U	11U	1.0U	0.8U	0.8U	0.8U	1U	4U	0.8U
Mn	µg/L	69.6	53.6	15.9	52.4	89.5	117	6.6	1.8	0.63	0.1U
Mo	µg/L	43.1	43.6	44.2	29.1	23.7	33.1	28.5	29.8	34.8	44.6
Se	µg/L	3.2	14	14.3	11.5	7	6.2	10	5.6	19.9	39.7
U	µg/L	152	379	367	119	59.5	87.1	127	83.9	250	411
V	µg/L	146	173	150	114	114	130	119	114	127	147
Radiological											
Alpha[c,f]	pCi/L	87.1	275J	260	49.5	22.8J	48.0	65.9	50.3	158	267
Alpha-U[c,g]	pCi/L	0[h]	14.6J	24.0	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]
Beta[c]	pCi/L	61.3	111	51.2	31.6	21.8	28.3	34.7	36.8	57.1	78.2
U	µg/L	152	379	367	119	59.5	87.1	127	83.9	250	411
U-234[c]	pCi/L	--	--	117	--	17.7J	--	--	--	--	--
U-238[c]	pCi/L	--	--	119	--	24.2J	--	--	--	--	--

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[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- MW00-07[a]

Analyte	Unit	08/02/00	07/20/01	10/16/01	01/30/02	10/07/02
Field Measurements						
Alkalinity[c]	mg/L	181	--	367	--	--
Conductivity[d]	µmhos/cm	2720	2200	1990	--	1880
DO[d]	mg/L	1.54	--	--	--	--
ORP[d]	mV	180	118	--	--	--
pH[d]	s.u.	6.69	6.33	6.74	--	6.76
Temperature[d]	C	10.5	12.6	12	--	12
Turbidity[d]	NTU	3.37	>1000	--	--	338
Common Ions[e]						
Ca	mg/L	212	222	235	177	226
Chloride[c]	mg/L	35.0	--	81.9	61.5	80.5
Fluoride[c]	µg/L	305	--	308	421J	25.1U
Hardness	mg/L	740	759	792	607	758
K	mg/L	11.0	12.4	14.0	16.4	12.7
Mg	mg/L	51.1	49.6	49.8	40.0	47.1
Na	mg/L	103	169	149	118	152
NO_3+NO_2 as N[c]	µg/L	2080	--	778	464	475
SO_4[c]	mg/L	725	--	725	69.2	724
TDS[d]	mg/L	1390	--	--	--	--
Metals[e]						
As	µg/L	1.9	0.55	0.62	0.67	1.3
Fe	µg/L	9.1U	121	51	365	899
Mn	µg/L	6.4	324	501	805	1260
Mo	µg/L	42.7	34.9	38.9	24.3	29.9
Se	µg/L	7.8	10	9.9	7.4	18.5
U	µg/L	154	214	319	232	297
V	µg/L	74.1	24.9	18.5	11.6	8.4
Radiological						
Alpha[c,f]	pCi/L	76.2	--	168	--	176
Alpha-U[c,g]	pCi/L	0[h]	--	0[h]	--	0[h]
Beta[c]	pCi/L	53.3	--	71.6	--	88.1
U	µg/L	154	214	319	232	297
U-234[c]	pCi/L	--	64.2J	--	--	--
U-238[c]	pCi/L	--	79.4J	--	--	--

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- P92-02[a]

Analyte	Unit	November 1992 – December 1996[b]													
		Minimum	Maximum	Average	Median	FOD	04/14/99	07/28/99	10/18/99	04/12/00	10/31/00	04/10/01	10/17/01	04/03/02	10/09/02
Field Measurements															
Alkalinity[c]	mg/L	396	440	423	428	4/4	409	403	418	410	428	411	438	431	429
Conductivity[d]	µmhos/cm	3010	3250	3140	3160	4/4	3100	3280	3280	2490	3180	3000	3080	3062	2908
DO[d]	mg/L	0.26	0.91	0.583	0.58	4/4	--	--	0.33	1.45	0.6	1.8	--	--	--
ORP[d]	mV	-40	223	66	40.5	4/4	15	--	-158	39	-28	-17	--	47	--
pH[d]	s.u.	6.76	7.04	6.93	6.97	4/4	7.37	6.76	6.72	6.9	7.17	6.83	6.9	6.8	6.88
Temperature[d]	C	11.4	13.7	12.4	12.2	4/4	9.5	10.3	11.2	10	11.4	9.1	11.4	11.33	12.9
Turbidity[d]	NTU	0.98	36.2	10.7	2.83	4/4	2.15	2.92	0.82	1.23	1.23	0.85	0.7	5.2	1.13
Common Ions[e]															
Ca	mg/L	340	368	355	356	3/3	371	--	345	381	393	331	348	342	323
Chloride[c]	mg/L	149	180	163	162	4/4	189	--	193	201	175	169	191	180	173
Fluoride[c]	µg/L	251	454	315	277	4/4	373J	--	347	277	315	242	411	50.2U	50.2UJ
Hardness	mg/L	1400	1450	1430	1430	3/3	1530	--	1450	1580	1580	1360	1420	1410	1330
K	mg/L	1.37J	1.81J	1.63	1.7	3/3	1.97J	--	2.20	1.86	1.85	1.65	1.79	1.74	1.70
Mg	mg/L	125	137	132	133	3/3	147	--	144	153	146	129	135	135	126
Na	mg/L	242	295	268	268	3/3	271	--	240	244	229	219	217	200	211
NO_3+NO_2 as N[c]	µg/L	7.0U	26.4	12.5	10.1	2/4	221	--	79.2	55.4	32.4UJ	19.3	7.3U	6.9J	373
SO_4[c]	mg/L	1240	1340	1290	1290	4/4	1300	--	1330	1340	1270	1220	1280	1130	1180
TDS[d]	mg/L	2590	2770	2680	2680	4/4	2090	--	2860	2810	2680	2600	--	--	--
Metals[e]															
As	µg/L	1.1U	10.3J	3.66	1.9	3/4	1.0U	1.0U	0.4U	0.2U	0.24	0.5U	0.6U	0.22	0.1U
Fe	µg/L	--	--	--	--	--	628	859	664	845	978	904	1120	888	480
Mn	µg/L	189	196	192	192	3/3	173	183	170	184	191	156	184	147	209
Mo	µg/L	1.1U	15.6U	3.66	3.15	2/4	3.4J	2.8J	1.9	3.3	2.4	2.5	1.9U	1.8U	1.7U
Se	µg/L	1.1U	2.2UJ	0.9	0.975	0/4	2.1J	1.4J	1.1	1.3	1.2	0.88	0.73	0.2U	0.71
U	µg/L	66.2	66.2	66.2	66.2	1/1	73.8	69.0	69.2	65.9	62.1	58.5	54.3	54.2	52
V	µg/L	1.1U	7.7U	2.64	3.08	0/4	1.0U	0.60U	1U	0.4U	1.3U	0.4U	0.3U	0.3U	0.3U
Radiological															
Alpha[c,f]	pCi/L	28.5U	110	63.6	65.1	2/4	31.3J	--	21.2J	28.5J	19.9J	18.1	22.2	32.0	39.2
Alpha-U[c,g]	pCi/L	28.5U	84.1UJ	36.2	40.1	2/4	0[h]	--	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	3.5
Beta[c]	pCi/L	23.4U	81.2U	22.9	19.6	0/4	17.5U	--	34.6	13.5U	18.3	12.0U	20.1	17.5	11.9U
U	µg/L	66.2	66.2	66.2	66.2	1/1	73.8	69.0	69.2	65.9	62.1	58.5	54.3	54.2	52

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[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- P92-03[a]

Analyte	Unit	10/18/99	04/12/00	10/31/00	04/11/01	10/17/01	04/03/02
Field Measurements							
Alkalinity[c]	mg/L	420	383	--	400	409	450
Conductivity[d]	µmhos/cm	2980	2770	2510	2670	2730	2541
DO[d]	mg/L	0.12	1.74	--	1.6	--	--
ORP[d]	mV	-132	27	-35	31	-35	95
pH[d]	s.u.	--	6.97	7.01	7.02	6.91	6.98
Temperature[d]	C	11.6	8.6	11.4	7.5	12.3	9.87
Turbidity[d]	NTU	2.26	1.77	19.7	4.48	2.99	7.1
Common Ions[e]							
Ca	mg/L	346	325	358	297	327	287
Chloride[c]	mg/L	178	123	155	138	173	144
Fluoride[c]	µg/L	317	12U	317	727	404	25.1U
Hardness	mg/L	1320	1210	1310	1110	1220	1100
K	mg/L	4.95	2.89	3.66	2.70	3.84	3.75
Mg	mg/L	110	97.9	101	89.0	99.0	92.6
Na	mg/L	237	219	222	202	214	197
NO_3+NO_2 as N[c]	µg/L	439	140	61.1J	13.4	478	11.9J
SO_4[c]	mg/L	1170	1040	1060	464	1100	895
TDS[d]	mg/L	2540	2260	2300	2150	--	--
Metals[e]							
As	µg/L	0.4U	0.2U	0.25	0.5U	0.6U	0.21
Fe	µg/L	433	596	1310	943	1310	324
Mn	µg/L	185	234	235	227	193	93.7
Mo	µg/L	13.1	11.8	13.5	11.4	7.7	12.3
Se	µg/L	4.5	6.6	3.7	1.5	1.3	0.2U
U	µg/L	135	104	113	111	114	112
V	µg/L	1U	0.77	1.3U	0.4U	0.42	0.35
Radiological							
Alpha[c,f]	pCi/L	69.1J	46.2J	53.1J	46.9	55.5	49.6
Alpha-U[c,g]	pCi/L	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]
Beta[c]	pCi/L	61.0	28.3	34.6	32.1	18.6	35.2
U	µg/L	135	104	113	111	114	112

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- P92-04[a]

Analyte	Unit	November 1992 - December 1996[b]															
		Minimum	Maximum	Average	Median	FOD	10/06/98	01/26/99	04/12/99	07/29/99	10/19/99	01/10/00	04/13/00	07/26/00	11/01/00	04/10/01	10/16/01
Field Measurements																	
Alkalinity[c]	mg/L	234	401	316	308	5/5	380	391	359	363	400	388	399	375	331	445	342
Conductivity[d]	µmhos/cm	2150	2970	2550	2440	5/5	2640	2570	1161	1786	2420	2350	2190	2100	1640	2350	2450
DO[d]	mg/L	4.76	6.37	5.35	5.14	4/4	--	--	--	6.67	4.58	5.48	2.14	4.4	3.6	6.7	--
ORP[d]	mV	76	231	157	153	5/5	221	--	213	130	14	69	51	106	60	44	112
pH[d]	s.u.	6.67	7.30	6.86	6.78	5/5	5.90	7.09	6.75	6.65	6.48	--	6.72	6.97	6.82	6.73	6.59
Temperature[d]	C	9.8	21.4	13.4	10.6	5/5	10.2	9.8	10.9	9.7	11.0	9.4	11.3	13.2	10.6	8.7	9.4
Turbidity[d]	NTU	1.37	4.67	3.08	3.23	5/5	4.87	3.35	1.09	4.21	0.90	0.47	3.43	1.31	4.85	1.44	4.92
Common Ions[e]																	
Ca	mg/L	263	372	322	309	5/5	303	306	252	261	260	277	248	250	344	268	282
Chloride[c]	mg/L	104	138	123	132	5/5	193	181	159	159	177	136	141	158	156	137	162
Fluoride[c]	µg/L	251	359	300	291	5/5	488	489	332	365	359	317	327	384	288	336	378
Hardness	mg/L	994	1480	1230	1150	5/5	1160	1180	965	1020	1030	1080	975	955	1340	1060	1100
K	mg/L	1.28U	1.97J	1.35	1.62	3/5	2.11J	2.32J	1.94J	1.93J	2.27	2.09	2.09	1.84	2.13	2.09	2.01
Mg	mg/L	81.8	133	103	93	5/5	98.7	102	81.6	88.7	92.6	93.2	86.5	80.3	116	94.4	95.4
Na	mg/L	138	168	157	163	5/5	167	170	153	146	148	148	142	137	153	146	135
NO_3+NO_2 as N[c]	µg/L	3230	5370	4680	4980	5/5	5800	2500J	844	1860J	1890	1640J	1420	3360	3570J	1580	3310
SO_4[c]	mg/L	678	1230	962	955	5/5	838	845	630	634	752	702	591	630	999	472	954
TDS[d]	mg/L	1670	2490	2080	2010	5/5	2050	1970	1650	1790	1900	1860	1630	1610	2140	1870	--
Metals[e]																	
As	µg/L	0.44U	6.4J	1.76	0.55	2/5	1.0UR	0.10U	1.0U	1.0U	0.4U	0.4U	0.2U	0.3U	0.2U	0.5U	0.6U
Fe	µg/L	--	--	--	--	--	--	--	5.0U	265	9U	8.9U	7.4U	9.1U	11.7U	1.0U	9.6
Mn	µg/L	1.9J	11.9	5.28	4.3	5/5	1.0U	1.0UJ	1.0U	1.9J	0.97	0.9U	0.4U	1.5U	2U	0.1U	0.23
Mo	µg/L	0.56U	15.6U	2.12	0.55	1/5	1.0U	1.0U	2.0U	0.9U	0.8U	0.4U	0.40U	0.3U	0.3U	0.40U	1.9U
Se	µg/L	3.8J	7.9J	5.76	5.6	5/5	3.9J	4.2J	2.4J	3.0J	2	2.4	2.6	2.1	6.2	3.6	0.41
U	µg/L	27.3	31.5	29.4	29.4	2/2	39.3	40.8	33.3	32.1	39.4	37	32.1	31.3	33.1	36.2	26.7
V	µg/L	1.1U	7.7U	2.78	3.35	0/5	2.0U	1.0U	1.0U	0.95J	1U	1U	0.4U	1.3U	1.3U	0.4U	0.3U
Radiological																	
Alpha[c,f]	pCi/L	18.0	64.5UJ	22.8	23.3	1/5	19.7UJ	18.3U	15.8UJ	18.4	20.0J	18.7	9.8J	20.1J	15.0UJ	14.3	11.7
Alpha-U[c,g]	pCi/L	0[h]	64.5UJ	19.2	23.3	1/5	19.7UJ	18.3U	15.8UJ	0[h]	0[h]	0[h]	0[h]	0[h]	15.0UJ	0[h]	0[h]
Beta[c]	pCi/L	15.5U	50.4U	18.2	20	0/5	19.4U	16.3U	14.8U	17.0U	19.7	22.9	8.1U	12.0U	13.2U	13.8	8.2U
U	µg/L	27.3	31.5	29.4	29.4	2/2	39.3	40.8	33.3	32.1	39.4	37	32.1	31.3	33.1	36.2	26.7
U-234[c]	pCi/L	8.7	24.8	14	12	5/5	16.3	--	--	--	--	--	--	--	--	--	--
U-235[c]	pCi/L	0.37	1.3J	0.642	0.5	4/5	0.58J	--	--	--	--	--	--	--	--	--	--
U-238[c]	pCi/L	6.7	16.2	10.5	9.8	5/5	14.5	--	--	--	--	--	--	--	--	--	--

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[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- P92-05[a]

Analyte	Unit	01/26/99	04/13/99	07/28/99	10/19/99	01/11/00	04/13/00	07/26/00	04/10/01
Field Measurements									
Alkalinity[c]	mg/L	--	--	410	399	--	315	380	--
Conductivity[d]	µmhos/cm	3280	3200	3170	3450	3300	2880	2800	3130
DO[d]	mg/L	--	--	--	--	--	--	1.52	--
ORP[d]	mV	--	233	-65	-151	183	81	-61	225
pH[d]	s.u.	7.13	7.78	6.59	6.80	6.68	6.84	6.14	7.09
Temperature[d]	C	6.3	7.9	15.8	12.0	6	7.7	16	5.8
Turbidity[d]	NTU	58.6	41.3	6.73	27.1	25.1	34.2	4.17	91.3
Common Ions[e]									
Ca	mg/L	407	350	294	346	345	341	342	323
Chloride[c]	mg/L	163	172	202	197	189	201	216	--
Fluoride[c]	µg/L	723	546	707	692	538	596	742	--
Hardness	mg/L	1630	1310	1070	1330	1320	1260	1230	1190
K	mg/L	4.10J	3.95J	4.96J	4.59	3.33	3.34	5.28	3.59
Mg	mg/L	150	107	81.1	112	112	100	90.9	93.0
Na	mg/L	285	258	250	244	223	211	258	201
NO_3+NO_2 as N[c]	µg/L	1090J	2230	3900J	2000	1960J	2940	703	--
SO_4[c]	mg/L	1500	1080	838	1210	1140	1110	1100	--
TDS[d]	mg/L	2870	2480	2440	2580	--	2290J	2360	--
Metals[e]									
As	µg/L	0.10U	1.0U	1.0U	0.4U	0.4U	0.2U	0.3U	0.5U
Fe	µg/L	--	126	5.9U	88.5	8.9U	7.4U	34	1.0U
Mn	µg/L	121J	27.0	7.3J	32.9	44.6	2.3	10	26.1
Mo	µg/L	3.2J	2.7J	0.9U	0.8U	0.4U	0.4U	0.3U	0.4U
Se	µg/L	25.9	32.7	15.1	11.2	52	56.6	2.8	152
U	µg/L	45.8	31.8	35.7	39.3	36.8	28.1	34.3	43.8
V	µg/L	1.0U	1.0U	0.60U	1.4	1.7	0.99	1.3U	0.4U
Radiological									
Alpha[c,f]	pCi/L	--	21.6UJ	20.4U	23.2J	--	11.0UJ	22.6J	--
Alpha-U[c,g]	pCi/L	--	21.6UJ	20.4U	0[h]	--	11.0UJ	0[h]	--
Beta[c]	pCi/L	--	21.6	22.6U	24.9	--	10.3	14.3U	--
U	µg/L	45.8	31.8	35.7	39.3	36.8	28.1	34.3	43.8

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- P92-06[a]

Analyte	Unit	01/27/99	04/12/99	07/29/99	10/15/99	01/12/00	04/13/00	07/26/00	11/02/00	04/10/01	07/19/01	10/16/01	04/02/02	07/11/02	10/07/02
Field Measurements															
Alkalinity[c]	mg/L	406	411	414	411	423	347	345	374	337	306	325	296	291	299
Conductivity[d]	µmhos/cm	4190	4630	4310	5190	4970	4440	4250	4180	4250	4560	4080	3583	6124	2937
DO[d]	mg/L	--	--	3.10	3.5	2.7	2.83	3.49	5.4	8.3	--	--	--	--	--
ORP[d]	mV	--	238	99	-22	195	85	104	191	229	84	124	169	--	--
pH[d]	s.u.	6.72	6.89	6.57	6.60	--	6.91	6.83	6.73	6.77	6.47	6.71	6.7	6.65	6.71
Temperature[d]	C	8.3	8.1	9.7	11.4	9	8.1	10	10.2	7.3	11.1	11.8	9.51	10.86	12.6
Turbidity[d]	NTU	4.44	3.37	3.87	1.65	>1000	1.66	1.58	4.75	1.97	1.26	0.83	9.87	1.23	3.64
Common Ions[e]															
Ca	mg/L	471	509	595	601	587	485	477	455	445	511	421	344	309	265
Chloride[c]	mg/L	158	173	222	257	229	215	212	201	207	242	222	164	150	130
Fluoride[c]	µg/L	466	184J	647J	184	180	192	219	205	205	227	323	272	448	331
Hardness	mg/L	1620	1760	2050	2100	2020	1720	1710	1650	1630	1880	1590	1330	1190	1010
K	mg/L	6.56	6.43	7.69	9.40	6.84	7.33	7.21	7.56	6.74	8.61	8.12	7.72	7.35	6.67
Mg	mg/L	109	119	137	145	134	123	126	124	127	147	130	115	102	84.3
Na	mg/L	489	512	555	579	526	518	499	459	414	510	416	355	355	321
NO_3+NO_2 as N[c]	µg/L	16300J	22300	26300J	29900	28300J	20900	18600	20300	20500	20300	17700	12500J	10100	8310
SO_4[c]	mg/L	1820	1910	1230	2600	2170	1860	1920	1860	1850	2150	2070	1540	1430	1290
TDS[d]	mg/L	3580	3970	4730	4950	4560J	3910	3920	3650	3770	4220	--	--	--	--
Metals[e]															
As	µg/L	0.10U	1.0U	1.0U	0.4U	0.4U	0.2U	0.3U	0.2U	0.5U	0.5U	0.6U	0.13	0.1	0.1U
Fe	µg/L	--	27.9J	5.9U	9U	8.9U	7.4U	9.1U	11.7U	1.0U	0.8U	0.8U	1U	4U	0.8U
Mn	µg/L	1.3J	1.3J	0.90U	1.3	2.5	0.4U	1.5U	2U	0.4	0.1U	0.1U	0.1U	0.1U	1.2
Mo	µg/L	18.4J	20.6	16.7J	17.9	17.6	19.9	18.8	19.3	15.4	12	13.8	12	12.5	12.6
Se	µg/L	10.7	15.8	19.2	28.3	29	40	30.4	26.9	31.8	38.3	34.9	43.6	47.7	45.1
U	µg/L	997	1180	1260	1320	1080	895	697	546	550	604	492	414	364	306
V	µg/L	1.0U	1.0U	0.60U	1U	1U	0.4U	1.3U	1.3U	0.4U	0.3U	0.39	0.3U	0.3U	0.67
Radiological															
Alpha[c,f]	pCi/L	587	776J	915	800J	650	645J	609J	319J	13.8U	336J	299	256	235	236
Alpha-U[c,g]	pCi/L	0[h]	0[h]	49.4	0[h]	0[h]	30.1J	130J	0[h]	13.8U	0[h]	0[h]	0[h]	0[h]	25.8
Beta[c]	pCi/L	244	246	399	407	171	250	237	142	14.4U	83.6	83.8	104	18.7U	54.3
U	µg/L	997	1180	1260	1320	1080	895	697	546	550	604	492	414	364	306
U-234[c]	pCi/L	--	--	--	--	--	--	--	--	--	199J	--	--	--	--
U-238[c]	pCi/L	--	--	--	--	--	--	--	--	--	226J	--	--	--	--

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- P92-07[a]

Analyte	Unit	01/27/99	04/15/99	08/05/99	10/20/99	01/12/00	04/14/00	08/02/00
Field Measurements								
Alkalinity[c]	mg/L	--	346	--	--	--	--	--
Conductivity[d]	µmhos/cm	3270	2940	2660	2800	2760	2610	3930
DO[d]	mg/L	--	--	4.24	--	5.48	--	2.33
ORP[d]	mV	--	202	76	33	132	88	14
pH[d]	s.u.	7.18	7.01	6.74	6.46	--	6.89	6.8
Temperature[d]	C	5.9	8.4	12.8	11.9	7.6	10.1	13.6
Turbidity[d]	NTU	>1000	296	248	75.8	166	>1000	>1000
Common Ions[e]								
Ca	mg/L	355	298	270	--	276	276	256
Chloride[c]	mg/L	242	234	--	--	--	182	172
Fluoride[c]	µg/L	362J	384	--	--	--	319	390
Hardness	mg/L	1260	1060	960	--	1000	992	917
K	mg/L	2.62J	2.09J	1.95J	--	1.90	1.87	1.66
Mg	mg/L	91.4	76.6	69.3	--	75.5	73.6	67.5
Na	mg/L	295	267	243	--	240	245	234
NO_3+NO_2 as N[c]	µg/L	9500J	4250	--	--	--	2840	5070
SO_4[c]	mg/L	1080	945	--	--	--	701	772
TDS[d]	mg/L	2540	--	--	--	--	1990J	1920
Metals[e]								
As	µg/L	0.10U	1.0U	1.0U	--	0.4U	0.2U	0.3U
Fe	µg/L	--	5.0U	60.6J	--	8.9U	8.2	9.1U
Mn	µg/L	16.9J	26.5	20.9	--	17	12.9	5.8
Mo	µg/L	5.0J	3.5J	0.9U	--	0.44	3.5	2.9
Se	µg/L	2.2J	1.9J	1.0U	--	0.88	0.93	1.4
U	µg/L	91.0	81.4	63.2	--	68.6	85.6	66.3
V	µg/L	1.0U	1.0U	1.0J	--	8.1	0.4U	1.3U
Radiological								
Alpha[c,f]	pCi/L	--	--	--	--	--	37.8J	--
Alpha-U[c,g]	pCi/L	--	--	--	--	--	0[h]	--
Beta[c]	pCi/L	--	--	--	--	--	19.8	--
U	µg/L	91.0	81.4	63.2	--	68.6	85.6	66.3

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- P92-09[a]

Analyte	Unit	November 1992 - December 1996[b]													
		Minimum	Maximum	Average	Median	FOD	01/25/99	04/13/99	07/29/99	10/19/99	01/11/00	04/13/00	07/28/00	11/01/00	04/10/01
Field Measurements															
Alkalinity[c]	mg/L	447	577	512	512	2/2	513	486	490	608	600	575	441	511	385
Conductivity[d]	µmhos/cm	3710	4700	4160	4060	3/3	3230	3200	3250	2800	2710	2720	1820	660	2780
DO[d]	mg/L	--	--	--	--	--	--	--	3.62	3.3	2.47	3.85	4.1	--	7.9
ORP[d]	mV	128	144	136	136	2/2	--	-54	-31	-113	9	59	-25	46	59
pH[d]	s.u.	6.96	7.92	7.28	6.96	3/3	7.03	7.26	6.96	6.77	--	6.87	6.82	7.07	6.96
Temperature[d]	C	8.6	19.8	14.4	14.9	3/3	9.2	8.9	10.8	11.7	9.1	8.7	11.3	11	7.2
Turbidity[d]	NTU	10.9	20.1	14.7	13	3/3	1.91	3.31	1.48	0.87	2.15	1.07	0.55	17.7	4.74
Common Ions[e]															
Ca	mg/L	354	528	427	400	3/3	282	276	276	221	217	226	243	256	208
Chloride[c]	mg/L	207	355	273	256	3/3	176	163	181	129	105	112	146	138	162
Fluoride[c]	µg/L	557	936	780	846	3/3	873	621	520	450	466	491	492	508	459
Hardness	mg/L	1560	2210	1850	1770	3/3	1320	1290	1280	1050	1010	1050	1110	1140	939
K	mg/L	1.47U	3.06J	2.27	3.01	2/3	1.71J	1.48J	1.49J	1.70	1.45	1.29	1.31	1.52	1.18
Mg	mg/L	163	217	189	188	3/3	150	147	143	120	113	117	121	122	102
Na	mg/L	383	476	422	407	3/3	333	328	314	284	269	267	276	286	268
NO_3+NO_2 as N[c]	µg/L	1170	3120	2110	2050	3/3	3950J	4810	7570J	12200	9720J	8830	8650	9390J	5490
SO_4[c]	mg/L	1450	2250	1810	1720	3/3	1230	1100	1040	818	740	814	971	934	969
TDS[d]	mg/L	3180	4560	3740	3490	3/3	2680	2670	2750	2280	2040J	2160	2340	2310	2220
Metals[e]															
As	µg/L	1.1U	1.9J	1.42	1.8	2/3	0.14J	1.0U	1.0U	0.41	0.4U	0.28	0.3U	0.2U	0.5U
Fe	µg/L	--	--	--	--	--	--	221	143	29.4	8.9U	7.4U	9.1U	11.7U	1.0U
Mn	µg/L	1.0U	31.5	13.4	8.2	2/3	22.5J	36.8	8.7J	10	20.1	15.5	1.5U	36.5	0.62
Mo	µg/L	15.6U	22.7J	15.7	16.6	2/3	20.4J	19.6	17.2J	15.8	18	15.1	14	15	17.7
Se	µg/L	5.6	6.9	6.3	6.4	3/3	6.4	8.2	8.7J	9.3	9	7.8	10.8	9.9	9.8
U	µg/L	119	119	119	119	1/1	76.6	77.6	72.7	61.3	60	55.5	54.9	59.8	53.7
V	µg/L	1.1U	7.7U	2.58	3.35	0/3	1.0U	1.0U	0.60U	1U	1.7	0.4U	1.3U	1.3U	0.42
Radiological															
Alpha[c,f]	pCi/L	106	120	113	113	2/2	36.2	47.2J	45.6	20.6J	25.6	18.1J	41.8	28.9J	21.9
Alpha-U[c,g]	pCi/L	24.6	26.5	25.6	25.6	2/2	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	4.1	0[h]	0[h]
Beta[c]	pCi/L	31.1U	70.0U	25.3	25.3	0/2	34.4	23.8U	27.5U	28.2	21.1	19.8	22.9	15.8	11.2
U	µg/L	119	119	119	119	1/1	76.6	77.6	72.7	61.3	60	55.5	54.9	59.8	53.7

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

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Alluvial Ground Water -- Downgradient -- PW-10[a]

Analyte	Unit	01/29/01	07/19/01	10/16/01	04/02/02	07/10/02	10/01/02
Field Measurements							
Alkalinity[c]	mg/L	--	280	316	298	276	289
Conductivity[d]	µmhos/cm	3600	2930	2530	2600	2337	3786
ORP[d]	mV	173	--	--	137	--	--
pH[d]	s.u.	6.9	6.36	6.94	6.64	7	6.88
Temperature[d]	C	--	19.2	14.2	13.4	16.72	13.1
Turbidity[d]	NTU	172	30.2	95.9	306	147	46.7
Common Ions[e]							
Ca	mg/L	331	291	244	257	225	240
Chloride[c]	mg/L	--	89.2	94.5	81.3	75.0	73.9
Fluoride[c]	µg/L	--	627	582	468	330J	331
Hardness	mg/L	1100J	977	846	899	806	841
K	mg/L	18.2	19.0	22.2	20.5	19.8	20.0
Mg	mg/L	66.8J	60.8	57.6	62.4	59.4	58.6
Na	mg/L	371	355	266	231	214	248
NO_3+NO_2 as N[c]	µg/L	--	16200	11000	9270J	7340	6910
SO_4[c]	mg/L	--	1120	1070	997	899	927
Metals[e]							
As	µg/L	0.2U	2	4.8	4.2	3.9	5.6
Fe	µg/L	26.6	66.8	20.5	1U	11.6	0.8U
Mn	µg/L	199	79.6	22	23.9	29.7	14
Mo	µg/L	74.1	63.3	93.7	83.3	83.5	91.5
Se	µg/L	56	85	59.1	112	91.5	92.3
U	µg/L	799	711	719	714	811	828
V	µg/L	8.6	59.7	179	138	115	191
Radiological							
Alpha[c,f]	pCi/L	--	--	587	578	--	615
Alpha-U[c,g]	pCi/L	--	--	93.0	87.5	--	46.2
Beta[c]	pCi/L	--	--	153	191	--	127
U	µg/L	799	711	719	714	811	828
U-234[c]	pCi/L	238	225J	--	--	--	--
U-238[c]	pCi/L	253	263J	--	--	--	--

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- PW-16[a]

Analyte	Unit	04/11/01	07/19/01	10/16/01	01/29/02	04/03/02	07/11/02	10/01/02
Field Measurements								
Alkalinity[c]	mg/L	69	101	99	93	124	106	121
Conductivity[d]	µmhos/cm	1930	1832	1635	1605	1611	1357	1368
DO[d]	mg/L	0	--	--	--	--	--	--
ORP[d]	mV	120	54	--	--	-49	--	--
pH[d]	s.u.	6.52	6.35	6.94	7.19	7.12	7	7.07
Temperature[d]	C	8.3	12.8	14.3	8.7	10.4	12.68	15.8
Turbidity[d]	NTU	2.25	0.81	1.08	2.5	2.61	1.1	2.16
Common Ions[e]								
Ca	mg/L	91.7	95.8	76.5	86.0	106	78.3	68.8
Chloride[c]	mg/L	105	102	94.4	74.6	77.5	71.4	68.8
Fluoride[c]	µg/L	149	216	223	134	108J	25.1U	25.1U
Hardness	mg/L	454	429	392	440	520	400	379
K	mg/L	17.1	16.1	18.0	17.5	16.5	16.5	17.3
Mg	mg/L	54.6	46.2	48.9	54.7	62.0	49.7	50.2
Na	mg/L	237	228	175	154	150	157	147
NO_3+NO_2 as N[c]	µg/L	1140	195	111	335	353	19.2	29.4
SO_4[c]	mg/L	501	727	652	612	606	510	488
TDS[d]	mg/L	1440	1320	--	--	--	--	--
Metals[e]								
As	µg/L	3	5	6.2	4	2.4	2.3	3.5
Fe	µg/L	8.4	0.8U	18.1	0.8U	1U	25.7	79.8
Mn	µg/L	1190	1990	1650	844	693	871	1040
Mo	µg/L	13.2	24.8	12.6	5	5.8	3	4.1
Se	µg/L	1.1	1.4	0.56	0.55	0.94	0.25	0.18
U	µg/L	5.9	20.7	28.4	32.3	52.9	20.3	20.5
V	µg/L	90.4	101	70.8	52	37.1	25.2	17.8
Radiological								
Alpha[c,f]	pCi/L	10.3U	11.2UJ	9.6	14.5	29.5J	8.6U	8.9
Alpha-U[c,g]	pCi/L	10.3U	11.2UJ	0[h]	0[h]	0[h]	8.6U	0[h]
Beta[c]	pCi/L	18.1	13.6	18.1	21.3	36.3	19.6	18.7
U	µg/L	5.9	20.7	28.4	32.3	52.9	20.3	20.5
U-234[c]	pCi/L	--	6.2J	--	--	--	--	--
U-238[c]	pCi/L	--	8.2J	--	--	--	--	--

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- PW-17[a]

Analyte	Unit	04/13/00	08/15/00	10/18/00	01/29/01	04/11/01	07/19/01	10/16/01	01/29/02	04/02/02	07/10/02	10/01/02
Field Measurements												
Alkalinity[c]	mg/L	--	403	--	281	248	252	318	273	217	272	309
Conductivity[d]	µmhos/cm	--	3590	--	3230	2960	2720	2600	--	2548	2411	2403
DO[d]	mg/L	--	--	--	--	1	--	--	--	--	--	--
ORP[d]	mV	--	--	--	191	158	--	--	--	122	--	--
pH[d]	s.u.	--	6.52	6.48	6.7	6.44	6.02	6.9	--	6.6	6.33	6.48
Temperature[d]	C	--	15	--	8.7	9.7	12.8	13	--	12.75	15.75	12.7
Turbidity[d]	NTU	--	>1000	--	>1000	56.8	47.1	19.2	--	824	--	204
Common Ions[e]												
Ca	mg/L	--	--	452	296	280	254	243	246	257	235	246
Chloride[c]	mg/L	--	--	109	101	102	85.9	93.8	76.7	83.6	73.9	75.1
Fluoride[c]	µg/L	--	--	332	452	342	370	643	320J	909	418J	225
Hardness	mg/L	--	--	1580	1040J	988	893	852	867	916	847	868
K	mg/L	--	--	32.2	25.8	22.6	22.8	23.1	23.0	22.4	21.3	21.6
Mg	mg/L	--	--	109	74.1J	70.2	62.8	59.6	61.4	66.5	63.3	61.7
Na	mg/L	--	--	485	356	320	317	266	248	229	222	262
NO_3+NO_2 as N[c]	µg/L	--	--	33100	24300	21800	15700	11000	10200	9300J	8410	7610
SO_4[c]	mg/L	--	--	1670	1410	618	1120	1100	1060	1010	977	998
TDS[d]	mg/L	--	--	--	2740	2570	2160	--	--	--	--	--
Metals[e]												
As	µg/L	2.9	5.4	7.8	6	6.8	7.6	8.4	7.8	8.3	8.8	8.8
Fe	µg/L	--	--	101	11U	10	11.9	15.9	0.8U	26.3	8.5	0.8U
Mn	µg/L	--	--	420	537	141	112	211	33.9	11.2	22.8	3.9
Mo	µg/L	124	86.1	94.9	116	91	86.5	98.5	85.6	91.3	90.9	94.3
Se	µg/L	18.1	5.9	9.4	15.5	48.4	44	38.9	54.5	83.4	76.3	77.2
U	µg/L	902	916	973	833	727	761	759	686	753	881	836
V	µg/L	121	211	273	221	219	232	292	269	264	254	293
Radiological												
Alpha[c,f]	pCi/L	--	--	--	--	509	492J	536	374	548	708	642
Alpha-U[c,g]	pCi/L	--	--	--	--	9.6	0[h]	14.6	0[h]	30.7	103	67.7
Beta[c]	pCi/L	--	--	--	--	266	101	148	101	188	234	128
U	µg/L	902	916	973	833	727	761	759	686	753	881	836
U-234[c]	pCi/L	--	--	--	249	--	247J	--	--	--	--	--
U-238[c]	pCi/L	--	--	--	1480	--	276J	--	--	--	--	--

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- PW-18[a]

Analyte	Unit	04/11/01	07/11/01	10/16/01	01/29/02	04/01/02	07/11/02	10/01/02
Field Measurements								
Alkalinity[c]	mg/L	309	338	357	317	355	363	375
Conductivity[d]	µmhos/cm	2960	2300	2300	1915	2043	1967	2044
DO[d]	mg/L	4.1	--	--	0.92	--	--	--
ORP[d]	mV	219	--	--	11.1	151	--	--
pH[d]	s.u.	6.49	6.49	6.28	6.52	6.44	6.65	6.55
Temperature[d]	C	6.6	15	13.8	5.63	9.87	14.4	14.7
Turbidity[d]	NTU	219	3.64	0.85	4	9.28	3.38	3.13
Common Ions[e]								
Ca	mg/L	308	292	267	260	266	267	264
Chloride[c]	mg/L	179	144	124	85.0	83.9	87.9	85.3
Fluoride[c]	µg/L	292	357	741	253J	289	277	229
Hardness	mg/L	1100	1040	945	925	948	929	938
K	mg/L	14.6	15.5	12.8	9.43	9.07	9.38	10.1
Mg	mg/L	81.0	74.4	67.5	66.9	69.0	63.7	67.6
Na	mg/L	240	219	161	124	125	117	135
NH_4[c]	µg/L	--	--	--	4.2U	--	--	--
NO_3+NO_2 as N[c]	µg/L	14700	6200	3750	2830	2370J	2440	2160
SO_4[c]	mg/L	477	943	876	763	727	692	706
TDS[d]	mg/L	2300	2090	--	--	--	--	--
Metals[e]								
As	µg/L	3.6	5.5	5	4.1	4.4	6	6
Fe	µg/L	1U	4	9.5	0.8U	1U	8.9	0.8U
Mn	µg/L	28.1	47.2	74.1	1.9	0.1U	1.1	3.2
Mo	µg/L	25.1	33.1	32.1	19.4	24.1	31.2	32.9
Se	µg/L	151	104	82.6	73.6	82.6	75.8	72.6
U	µg/L	373	339	314	309	306	339	338
V	µg/L	196	266	272	200	205	278	308
Radiological								
Alpha[c,f]	pCi/L	179	148J	143	180	179	189	201
Alpha-U[c,g]	pCi/L	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]
Beta[c]	pCi/L	126	70.2	57.9	15.7U	73.8	87.6	49.6
U	µg/L	373	339	314	309	306	339	338

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[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- PW-20[a]

Analyte	Unit	04/11/01	07/11/01	10/16/01	01/29/02	04/01/02	07/11/02	10/01/02
Field Measurements								
Alkalinity[c]	mg/L	420	435	351	312	328	343	380
Conductivity[d]	µmhos/cm	2870	2480	2290	1854	2025	1968	2046
DO[d]	mg/L	2.1	--	--	2	--	--	--
ORP[d]	mV	129	--	--	-25	133	--	--
pH[d]	s.u.	6.47	6.5	6.25	6.51	6.51	6.66	6.56
Temperature[d]	C	6.8	13.7	14.2	6.34	10.98	14.05	14.7
Turbidity[d]	NTU	5	2.61	1.58	6.5	8.24	4.61	2.68
Common Ions[e]								
Ca	mg/L	303	289	263	253	260	259	263
Chloride[c]	mg/L	176	145	74.8	78.1	81.1	86.9	85.2
Fluoride[c]	µg/L	293	384	253	244J	226	363	218
Hardness	mg/L	1090	1030	938	902	924	924	932
K	mg/L	14.4	15.1	13.1	9.29	8.59	10.4	10.1
Mg	mg/L	80.7	74.1	68.3	65.7	66.8	67.4	66.8
Na	mg/L	238	223	164	117	118	131	134
NH_4[c]	µg/L	--	--	--	4.2U	--	--	--
NO_3+NO_2 as N[c]	µg/L	14400	6470	569	2470	2310	2450	2130
SO_4[c]	mg/L	473	949	878	750	711	684	709
TDS[d]	mg/L	2250	2080	--	--	--	--	--
Metals[e]								
As	µg/L	4	6.2	5.6	4.3	4.6	6.6	6.7
Fe	µg/L	13.7	2.3	11.3	0.8U	1U	12.7	0.8U
Mn	µg/L	15.5	24.4	42.4	1.7	2.5	0.1U	1.3
Mo	µg/L	26.6	28.8	32.3	20.9	25.3	30.1	28.9
Se	µg/L	152	110	82.9	67.4	71.8	79.2	71.5
U	µg/L	375	335	315	310	318	343	330
V	µg/L	207	259	278	197	195	273	309
Radiological								
Alpha[c,f]	pCi/L	189	168J	152	169	177J	183	185
Alpha-U[c,g]	pCi/L	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]
Beta[c]	pCi/L	132	66.2	71.9	10U	98.2	93.8	56.0
U	µg/L	375	335	315	310	318	343	330

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- PW-22[a]

Analyte	Unit	04/11/01	07/11/01	10/16/01	01/29/02	04/03/02	07/11/02	10/02/02
Field Measurements								
Alkalinity[c]	mg/L	306	362	371	362	310	361	382
Conductivity[d]	µmhos/cm	2300	2500	2310	2090	1993	2002	2069
ORP[d]	mV	75	--	--	--	-42	--	--
pH[d]	s.u.	7.35	6.53	6.56	4.35	6.75	6.66	6.57
Temperature[d]	C	7.5	13.7	14.4	8	9.7	14.03	14.5
Turbidity[d]	NTU	568	5.74	3.13	6.1	4.71	3.73	4.18
Common Ions[e]								
Ca	mg/L	305	292	264	251	262	261	263
Chloride[c]	mg/L	178	154	126	83.6	80.9	89.2	86.0
Fluoride[c]	µg/L	393	359	760	26.2U	234J	260	253
Hardness	mg/L	1090	1040	940	906	945	925	931
K	mg/L	11.6	13.5	13.1	10.6	9.10	9.68	10.4
Mg	mg/L	80.3	76.2	68.2	67.8	70.7	66.4	66.5
Na	mg/L	227	220	167	132	112	125	139
NH_4[c]	µg/L	--	--	--	33.5	--	--	--
NO_3+NO_2 as N[c]	µg/L	14000	6660	3840	3550	2410	2490	2100
SO_4[c]	mg/L	480	974	867	800	714	702	464
TDS[d]	mg/L	2310	2110	--	--	--	--	--
Metals[e]								
As	µg/L	2.6	3.7	3.8	3.7	3.3	4.1	4.6
Fe	µg/L	1.0U	3.8	12	0.8U	1U	13.6	0.8U
Mn	µg/L	35.6	32.5	42.3	2.3	6.6	4.7	4.6
Mo	µg/L	24.6	27	33	21.4	26.8	30	31.4
Se	µg/L	162	108	76	74	82.2	80.5	74.5
U	µg/L	379	339	321	286	362	350	331
V	µg/L	172	210	244	194	178	229	264
Radiological								
Alpha[c,f]	pCi/L	95.2	166J	155	174	187J	195	179
Alpha-U[c,g]	pCi/L	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]
Beta[c]	pCi/L	83.1	60.4	60.1	15.6U	120	97.2	54.4
U	µg/L	379	339	321	286	362	350	331

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- PW-23[a]

Analyte	Unit	04/11/01	07/19/01	10/16/01	01/29/02	04/02/02	07/10/02	10/01/02
Field Measurements								
Alkalinity[c]	mg/L	369	375	314	--	354	273	339
Conductivity[d]	µmhos/cm	3720	3370	3300	3200	3240	2996	3113
DO[d]	mg/L	2.1	--	--	--	--	--	--
ORP[d]	mV	157	--	--	91	117	--	--
pH[d]	s.u.	6.58	5.92	7.04	6.64	6.56	6.76	6.79
Temperature[d]	C	10	12.9	13.2	7.6	13.3	22.59	12
Turbidity[d]	NTU	108	464	1.24	>1000	378	10.9	993
Common Ions[e]								
Ca	mg/L	242	330	317	287	323	257	283
Chloride[c]	mg/L	113	98.3	106	--	95.7	86.0	90.5
Fluoride[c]	µg/L	335	477	473	--	487	376J	482
Hardness	mg/L	859	1160	1120	1020	1150	965	1000
K	mg/L	21.7	25.9	26.1	23.7	24.5	23.8	22.4
Mg	mg/L	61.9	81.6	78.9	73.5	83.5	78.4	71.9
Na	mg/L	286	424	345	312	347	303	366
NO_3+NO_2 as N[c]	µg/L	29200	23800	20400	--	18300J	16600	14500
SO_4[c]	mg/L	1120	1510	1540	--	1410	1320	1390
TDS[d]	mg/L	3180	2200	--	--	--	--	--
Metals[e]								
As	µg/L	6.8	8.9	9	8.8	9.2	9.9	9.5
Fe	µg/L	1U	17.1	12.6	0.8U	37.8	18.1	0.8U
Mn	µg/L	437	570	748	615	266	315	229
Mo	µg/L	91.3	93.8	108	92.9	104	106	109
Se	µg/L	51	32	19.6	29.3	49.1	41.8	39.3
U	µg/L	558	1040	922	891	996	1030	929
V	µg/L	303	296	350	275	308	302	317
Radiological								
Alpha[c,f]	pCi/L	830	428J	795	--	667	708	--
Alpha-U[c,g]	pCi/L	447	0[h]	162	--	0[h]	0.39	--
Beta[c]	pCi/L	393	204	208	--	260	272	--
U	µg/L	558	1040	922	891	996	1030	929
U-234[c]	pCi/L	--	353J	--	--	--	--	--
U-238[c]	pCi/L	--	382J	--	--	--	--	--

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[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits

Alluvial Ground Water -- Downgradient -- PW-28[a]

Analyte	Unit	10/18/00	01/30/01	04/11/01	07/11/01	10/16/01	01/29/02	04/01/02	07/11/02	10/01/02
Field Measurements										
Alkalinity[c]	mg/L	360	358	309	320	329	368	310	347	358
Conductivity[d]	µmhos/cm	3560	3530	2800	2700	2600	2440	2380	2173	2181
DO[d]	mg/L	2.3	3	2.8	--	--	--	--	--	--
ORP[d]	mV	74	148	79	--	--	--	157	--	--
pH[d]	s.u.	6.55	6.64	7.27	6.39	6.24	6.6	6.31	6.58	6.48
Temperature[d]	C	15	8.7	8.8	13	13.2	8.8	10.85	12.88	13.9
Turbidity[d]	NTU	132	89.7	3.73	4.34	4.63	3.1	9.98	2.01	5.6
Common Ions[e]										
Ca	mg/L	444	364	371	340	289	279	278	268	266
Chloride[c]	mg/L	225	240	219	178	149	118	117	95.8	95.7
Fluoride[c]	µg/L	429	463	451	491	640	353	487	405	373
Hardness	mg/L	1640	1370J	1410	1280	1090	1050	1050	1020	977
K	mg/L	13.5	11.5	10.1	9.31	8.24	7.27	6.64	7.07	7.23
Mg	mg/L	130	113J	117	104	89.3	85.5	87.5	85.4	76.0
Na	mg/L	300	266	268	245	193	167	167	160	154
NH_4[c]	µg/L	--	--	--	--	--	31.1	--	--	--
NO_3+NO_2 as N[c]	µg/L	17300	15700	15800	7820	5170	4530	3760J	3600	3020
SO_4[c]	mg/L	1480	1350	687	1200	1090	925	868	813	772
TDS[d]	mg/L	--	2870	2920	2540	--	--	--	--	--
Metals[e]										
As	µg/L	2	1.4	1.7	2	1.9	2	1.9	2	1.8
Fe	µg/L	11.7U	11U	70	4.7	11.2	0.8U	1U	9.5	0.8U
Mn	µg/L	44.6	36.5	1.1	1.9	0.92	2.7	7.5	1.7	1.1
Mo	µg/L	22.2	22.4	17.9	15.3	13.9	9.9	13.8	17.5	17.4
Se	µg/L	128	142	131	98.3	70.6	59.6	65.6	58	60.4
U	µg/L	324	370	304	247	206	216	233	263	256
V	µg/L	221	179	172	194	210	188	187	205	225
Radiological										
Alpha[c,f]	pCi/L	--	187	59.4	99.8J	99.1	98.0	134	123	139
Alpha-U[c,g]	pCi/L	--	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]
Beta[c]	pCi/L	--	61.3	34.1	46.0	37.0	39.2	59.5	73.6	42.2
U	µg/L	324	370	304	247	206	216	233	263	256
U-234[c]	pCi/L	--	123	--	--	--	--	--	--	--
U-238[c]	pCi/L	--	124	--	--	--	--	--	--	--

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[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- PW99-16[a]

Analyte	Unit	10/18/00	01/31/01	04/11/01	07/11/01	10/16/01	01/29/02	04/01/02	07/11/02	10/01/02
Field Measurements										
Alkalinity[c]	mg/L	405	329	356	386	343	380	323	333	362
Conductivity[d]	µmhos/cm	3490	3470	3420	2810	2530	2450	2314	2121	2165
DO[d]	mg/L	1.2	3.4	0.4	--	--	--	--	--	--
ORP[d]	mV	88	117	209	--	--	--	156	--	--
pH[d]	s.u.	6.39	6.75	6.41	6.46	6.49	6.25	6.3	6.6	6.5
Temperature[d]	C	14.3	8.1	8.4	12.5	13.2	7.3	11.93	13.21	13.4
Turbidity[d]	NTU	22	4.15	4.4	3.44	1.92	3	2.83	15.4	3.71
Common Ions[e]										
Ca	mg/L	430	364	372	318	286	272	276	274	262
Chloride[c]	mg/L	221	235	216	172	143	106	113	98.5	95.4
Fluoride[c]	µg/L	415	421	379	794	564	339	489	409	25.1U
Hardness	mg/L	1590	1380J	1410	1190	1070	1010	1030	998	962
K	mg/L	24.3	12.3	11.7	10.5	8.89	7.40	7.49	6.49	6.97
Mg	mg/L	125	114J	118	95.0	85.4	81.0	83.8	76.2	74.8
Na	mg/L	295	268	272	241	186	159	159	134	150
NH_4[c]	µg/L	--	--	--	--	--	26.4	--	--	--
NO_3+NO^2 as N[c]	µg/L	26000	15100	16000	7450	4900	5550	3570J	3350	2990
SO_4[c]	mg/L	1440	1350	643	1140	1030	852	827	780	774
TDS[d]	mg/L	--	2820	2840	2430	--	--	--	--	--
Metals[e]										
As	µg/L	3.4	2.6	3	3.4	2.9	3.3	3.3	3.5	3.1
Fe	µg/L	11.7U	11U	1.0U	1.6	0.8U	0.8U	1U	10	0.8U
Mn	µg/L	2.0U	3U	0.10U	0.15	0.51	1.3	0.1U	0.1U	1.6
Mo	µg/L	25.8	26	19.5	17.4	17.2	11.3	16.9	18.4	18.5
Se	µg/L	126	140	150	103	72.9	65.4	71.7	60.6	59.8
U	µg/L	330	387	327	263	218	227	251	272	253
V	µg/L	224	207	204	218	231	202	211	226	237
Radiological										
Alpha[c,f]	pCi/L	--	172	134	89.4J	107	144	146	130	145
Alpha-U[c,g]	pCi/L	--	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]	0[h]
Beta[c]	pCi/L	--	48.2	104	59.9	46.5	15.5U	67.0	79.3	40.0
U	µg/L	330	387	327	263	218	227	251	272	253
U-234[c]	pCi/L	--	122	--	--	--	--	--	--	--
U-238[c]	pCi/L	--	129	--	--	--	--	--	--	--

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R1-M1[a]

Analyte	Unit	09/14/99	10/20/99	11/17/99	01/10/00	04/13/00	08/16/00	10/17/00	01/23/01	04/16/01	07/10/01
Field Measurements											
Alkalinity[c]	mg/L	298	223	162	283	225	206	263	235	215	272
Conductivity[d]	µmhos/cm	3380	2910	3080	3180	4480	4400	2940	2500	2300	2170
DO[d]	mg/L	0.33	0.39	0.86	0.44	0.28	0.45	0.26	1.7	0.676	0.713
ORP[d]	mV	194	-46	-1	133	164	42	76	92	-145	154
pH[d]	s.u.	6.59	6.50	6.53	--	6.17	6.71	6.78	6.45	7.16	6.59
Temperature[d]	C	15.9	15.0	14.0	10.8	9.3	14.4	14.4	9.5	9.9	12.2
Turbidity[d]	NTU	--	10.1	3.96	1.22	8.71	8.85	5.25	4.59	3.27	6.39
Common Ions[e]											
Ca	mg/L	329	--	--	--	--	--	--	--	194	207
Chloride[c]	mg/L	--	--	--	--	--	--	--	--	--	82.9
Fluoride[c]	µg/L	--	--	--	--	--	--	--	--	--	385
Hardness	mg/L	1170	--	--	--	--	--	--	--	692	733
K	mg/L	26.6	--	--	--	--	--	--	--	18.9	20.5
Mg	mg/L	84.6	--	--	--	--	--	--	--	50.3	52.4
Na	mg/L	345	--	--	--	--	--	--	--	224	223
NH_4[c]	µg/L	--	--	--	--	--	--	--	--	--	707
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	--	--	9520
SO_4[c]	mg/L	--	--	--	--	--	--	--	--	--	759
Metals[e]											
As	µg/L	11.4	13.1	12.2	9.4	8.7	12.1	13.6	12.4	9.3	11.3
Fe	µg/L	9.0U	--	--	--	--	--	--	17.7	1.0U	0.7U
Mn	µg/L	872	--	--	--	--	--	--	757	645	634
Mo	µg/L	91.1	102	97.5	96J	77.6	83.8	90.8	91.8	83.4	88.9
Se	µg/L	14.7	8.1	4.6	18.9	25.2	3.8	5.5	36.5	68.4	76.7
U	µg/L	739	300	417	706	456	391	455	436	419	424
V	µg/L	430	481	450	450	345	396	455	420	339	420
Radiological											
U	µg/L	739	300	417	706	456	391	455	436	419	424

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R1-M2[a]

Analyte	Unit	09/13/99	10/20/99	11/17/99	01/11/00	04/11/00	08/16/00	10/17/00	01/23/01	04/17/01	07/09/01
Field Measurements											
Alkalinity[c]	mg/L	246	226	244	280	240	230	302	241	170	235
Conductivity[d]	µmhos/cm	3400	2950	3120	3130	4800	2930	2880	2490	2340	2170
DO[d]	mg/L	0.59	0.54	0.92	0.74	0.85	0.2	0.22	4.2	1.6	0.058
ORP[d]	mV	-14	184	9	107	68	168	98	171	22	9
pH[d]	s.u.	6.61	6.36	6.54	6.52	6.19	6.44	6.69	6.74	6.5	6.68
Temperature[d]	C	16.7	16.0	14.5	10.7	9	13	14.9	9.4	10.2	11.5
Turbidity[d]	NTU	--	4.15	18.3	22.2	1.6	>1000	26.7	114	42.3	6.09
Common Ions[e]											
Ca	mg/L	350	287	255	303	259	253	275	218	193	207
Chloride[c]	mg/L	140J	124	124	151	121	82.7	85.1	97.4	18.3J	88.6
Fluoride[c]	µg/L	--	--	--	--	--	--	--	387	351	436J
Hardness	mg/L	1250	1020	915	1070	924	888	961	776	692	734
K	mg/L	24.7	21.5	24.2	23.6	20.2	21.4	23.6	22.1	18.7	20.5
Mg	mg/L	90.8	74.2	67.6	77.3	67.4	62.3	66.5	56.3	51.0	52.8
Na	mg/L	351	332	351	367	294	316	326	266	217	221
NH_4[c]	µg/L	--	--	--	808	955J	916	878	--	--	669
NO_2 as N[c]	µg/L	--	--	--	8.5U	27.2U	183	27.2U	--	--	--
NO_3 as N[c]	µg/L	24200	27300	27600	22200	36800	21400	18400	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	14200	13500	9070J
SO_4[c]	mg/L	1200	1210	1260	1220	1150	1170	1180	935	579	757
Metals[e]											
As	µg/L	10.0	12.7	13.3	11.2	8.6	11.9	13.3	11.1	8.3	11.4
Fe	µg/L	9.0U	9.0U	9.0U	8.9U	7.4U	9.1U	11.6U	22.3	1.0U	0.7U
Mn	µg/L	596	648	660	845	765	681	789	759	638	679
Mo	µg/L	76.3J	91.7	87.6	84.9	73.2J	80.4	94	91.5	78.1J	87.7
Se	µg/L	17.5	9.3	3.8	17.2	30.4	4.1	9	40.4	82.7	77.3
U	µg/L	680	292	391	609	447J	394	446	442	410	418
V	µg/L	428	425	412	424	293	370	439	388	323	405
Radiological											
U	µg/L	680	292	391	609	447J	394	446	442	410	418

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]*Total gross alpha excluding radon which is lost during analysis.*
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R1-M3[a]

Analyte	Unit	09/14/99	10/20/99	11/17/99	01/11/00	04/11/00	08/16/00	10/17/00	01/23/01	04/17/01	07/10/01	10/15/01	01/28/02	04/02/02	07/09/02	09/30/02
Field Measurements																
Alkalinity[c]	mg/L	249	237	275	303	255	241	290	266	235	281	327	283	315	315	340
Conductivity[d]	µmhos/cm	3400	2970	3120	3220	4950	2540	2580	2650	2380	2400	2100	1863	2010	1812	1941
DO[d]	mg/L	0.43	0.44	0.65	0.64	0.7	0.16	0.35	0.9	0.707	0.4	0.306	684	0.5	0.86	2.3
ORP[d]	mV	211	159	21	-9	-114	-132	75	-48	-133	-11	33	14.1	-24	80	-50
pH[d]	s.u.	6.72	6.51	6.59	7.17	6.52	6.65	6.77	6.81	7.18	6.42	6.46	6.38	6.64	6.61	6.61
Temperature[d]	C	15.9	13.8	14.9	10.5	8.8	13.2	15.2	9.1	9.8	12.3	13.8	9.54	12	13.19	13.9
Turbidity[d]	NTU	--	15.4	61.4	5.67	5.4	66	33.1	37.4	31.4	28.8	25	1	22.8	5.37	31.3
Common Ions[e]																
Ca	mg/L	339	275	269	322	281	216	266	255	228	237	230	233	239	228	236
Chloride[c]	mg/L	134J	123	141	172	146	85.7	114	132	113J	116	105	79.9	81.0	75.1	74.3
Fluoride[c]	µg/L	--	--	--	--	--	--	--	343	311	369	749	335J	233	270J	245
Hardness	mg/L	1210	971	962	1150	1000	759	921	903	810	848	807	820	851	797	828
K	mg/L	21.8	18.9	21.8	21.4	17.8	18.8	20.9	20.7	17.8	20.9	18.9	15.8	14.6	14.0	16.0
Mg	mg/L	88.0	69.1	70.4	83.3	73.0	53.3	62.3	64.6	58.4	62.2	56.6	57.9	61.7	55.3	57.9
Na	mg/L	347	326	350	353	285	275	271	258	226	245	164	144	135	123	133
NH_4[c]	µg/L	--	--	--	723	525	468	486	--	--	234	--	--	--	--	--
NO_2 as N[c]	µg/L	--	--	--	8.5U	27.2U	27.0U	13.6U	--	--	--	--	--	--	--	--
NO_3 as N[c]	µg/L	25800	26700	26900	21100	34600	14400	14200	--	--	--	--	--	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	14600	14000	8060	2090	3030	3150	2480	2110
SO_4[c]	mg/L	1190	1170	1370	1270	1140	980	990	913	623	811	800	744	697	662	666
Metals[e]																
As	µg/L	10.0	11.8	11.9	10	7.6	9.8	12.7	8.5	10	11	10	9.9	8.9	11.5	12.4
Fe	µg/L	9.0U	9.0U	9.0U	8.9U	7.4U	9.1U	11.6U	11.0U	1.0U	0.7U	14.3	0.8U	1U	4.7	0.8U
Mn	µg/L	608	516	496	560	376	293	386	398	330	341	307	303	243	172	206
Mo	µg/L	67.5J	70.7	73.2	70.2	54.9J	68.3	73.8	59.7	54	61.3	62.6	45.4	47	53.8	59.8
Se	µg/L	14.9	11.0	6.1	26.9	49.6	12.2	38	72	102	117	97.3	119	122	125	109
U	µg/L	483	246	384	722	464J	288	356	409	361	391	495	447	497	629	636
V	µg/L	387	379	364	357	248	371	413	343	298	365	419	344	314	385	428
Radiological																
U	µg/L	483	246	384	722	464J	288	356	409	361	391	495	447	497	629	636

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]*Uranium activity is below detection limits.*

Alluvial Ground Water -- Downgradient -- R1-M4[a]

Analyte	Unit	09/13/99	10/19/99	11/17/99	01/11/00	04/11/00	08/15/00	10/16/00	01/23/01	04/17/01	07/10/01	10/11/01	10/15/01	01/28/02	04/02/02	07/09/02	09/30/02
Field Measurements																	
Alkalinity[c]	mg/L	369	347	361	384	319	284	300	325	304	350	342	--	350	322	311	360
Conductivity[d]	µmhos/cm	3370	3280	3080	3290	3300	4330	2690	2580	2640	2620	2280	--	1889	2080	1877	2012
DO[d]	mg/L	0.26	0.78	0.55	0.52	0.45	0.54	1.4	0.3	0.742	0.316	0.324	--	694	0.3	7.47	1.3
ORP[d]	mV	-100	158	70	205	90	102	35	44	225	-51	26	--	-44	-24	194	-9.5
pH[d]	s.u.	6.53	6.52	6.88	6.3	6.49	6	6.56	6.78	6.6	6.27	6.71	--	6.69	6.69	6.45	6.6
Temperature[d]	C	15.4	12.8	13.5	10.5	8.5	15	14.3	9.1	9	12.1	14	--	8.4	12	12.74	15.6
Turbidity[d]	NTU	--	3.82	50.4	26	4.35	56.4	150	24.6	24.3	7.44	6.53	--	30.7	53.8	0.59	6.17
Common Ions[e]																	
Ca	mg/L	428	380	304	410	303	273	277	276	268	297	258	--	257	257	240	244
Chloride[c]	mg/L	173J	189	154	207	214	126	121	152	161J	148	109	121	90.3	92.7	83.7	81.8
Fluoride[c]	µg/L	--	--	--	--	--	--	--	537	349	350	506	558	26.2UJ	25.1U	407	379
Hardness	mg/L	1510	1350	1090	1470	1100	973	971	981	951	1050	902	--	907	923	865	858
K	mg/L	12.7	13.3	12.9	14.5	10.5	13.3	14.0	13.8	12.3	15.9	14.2	--	12.9	12.2	12.0	12.8
Mg	mg/L	106	96.6	80.9	108	83.5	70.7	67.9	70.8	68.4	75.5	62.6	--	64.3	68.2	64.6	60.4
Na	mg/L	315	318	280	326	245	291	284	262	221	260	187	--	150	144	132	132
NH_4[c]	µg/L	--	--	--	9.9	31.8	40.7	36.1	--	--	46.5	--	--	--	--	--	--
NO_2 as N[c]	µg/L	--	--	--	8.5U	27.2U	27.0U	13.6U	--	--	--	--	--	--	--	--	--
NO_3 as N[c]	µg/L	16100	19700	14000	14900	25000	15900	12400	--	--	--	--	--	--	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	15400	14800	8870	3760	3800	3400	3020	2460	2050
SO_4[c]	mg/L	1250	1380	1240	1320	1260	1040	985	1020	460	896	822	848	777	728	687	691
Metals[e]																	
As	µg/L	7.9	7.6	6.8	6.3	5.6	6.6	7.3	7.1	7.7	7.6	7.5	--	6.9	6.3	7.8	8.8
Fe	µg/L	--	--	--	--	--	9.1U	11.6U	11U	1.0U	6	34	--	14.7	1U	4U	0.8U
Mn	µg/L	--	--	--	--	--	6.7	17.4	59.8	37	58	171	--	113	120	102	135
Mo	µg/L	42.3	42.8	43.0	35.6J	24.8J	39.9	47.5	43.9	37.3	39.6	44.8	--	31.1	33.1	37	44.3
Se	µg/L	51.8	35.6	24.3	53	96.7	25	13.3	68.8	139	131	93.8	--	97.9	93.9	99.4	97.5
U	µg/L	584	370	446	526	449	332	342	420	401	360	388	--	363	386	398	434
V	µg/L	353	355	321	330	208	313	354	295	261	324	356	--	295	272	317	356
Radiological																	
U	µg/L	584	370	446	526	449	332	342	420	401	360	388	--	363	386	398	434

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[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R1-M5[a]

Analyte	Unit	09/13/99	10/18/99	11/16/99	01/12/00	04/12/00	08/15/00	10/16/00	01/22/01	04/16/01	07/09/01
Field Measurements											
Alkalinity[c]	mg/L	321	340	439	391	330	413	336	333	292	309
Conductivity[d]	*µmhos/cm*	*3200*	*3220*	*5190*	*3080*	*4680*	*4540*	*2780*	*2860*	*2690*	*2680*
DO[d]	mg/L	0.92	1.29	4.17	0.32	0.5	0.88	1.4	3	1.1	0.245
ORP[d]	mV	-121	-73	113	122	-88	177	-32	16	31	-84
pH[d]	s.u.	6.64	6.59	7.02	6.39	6.13	6.88	6.56	6.75	6.67	6.22
Temperature[d]	C	17.5	15.1	15.2	10.3	8.2	15.5	15	9.1	10	12.6
Turbidity[d]	NTU	--	16.2	6.20	13.6	5.27	16	2.41	3.22	2.05	4.29
Common Ions[e]											
Ca	mg/L	--	--	--	--	340	291	295	289	287	315
Chloride[c]	mg/L	--	--	--	--	193	138	128	171	174J	159
Fluoride[c]	µg/L	--	--	--	--	--	--	--	584	305	366
Hardness	mg/L	--	--	--	--	1210	1030	1030	1030	1020	1120
K	mg/L	--	--	--	--	9.70	12.2	13.0	12.6	11.4	14.1
Mg	mg/L	--	--	--	--	87.6	74.1	72.3	75.1	74.2	81.2
Na	mg/L	--	--	--	--	230	285	291	263	230	251
NH_4[c]	µg/L	--	--	--	--	--	4.6U	20.0	--	--	11.1
NO_2 as N[c]	µg/L	--	--	--	--	--	27.0U	27.2U	--	--	--
NO_3 as N[c]	µg/L	--	--	--	--	--	15100	12400	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	21300	--	--	17000	14800	8560
SO_4[c]	mg/L	--	--	--	--	1150	1030	1030	1080	474	949
Metals[e]											
As	µg/L	7.2	6.6	5.0	5.8	5.1	5.3	5.8	4.7	3.3	5
Fe	µg/L	--	--	--	--	7.4U	9.1U	11.6U	11.9	22.6	11.3
Mn	µg/L	--	--	--	--	8.6	17.5	38.5	43.8	39.5	45
Mo	µg/L	49.1	47.1	48.1	37.8	26.7	30.7	35.4	29.5	24.5	26.2
Se	µg/L	54.6	36.8	19.6	50.4	80.6	41.8	18.5	87	143	121
U	µg/L	566	384	465	536	397	245	258	306	310	300
V	µg/L	339	346	314	304	214	306	350	284	243	296
Radiological											
U	µg/L	566	384	465	536	397	245	258	306	310	300

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]*Total gross alpha excluding radon which is lost during analysis.*
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R1-M6[a]

Analyte	Unit	10/18/00	01/29/01	04/17/01	07/09/01
Field Measurements					
Alkalinity[c]	mg/L	480	336	290	319
Conductivity[d]	µmhos/cm	2720	2860	2940	2690
DO[d]	mg/L	0.28	1.6	9.1	0.463
ORP[d]	mV	177	244	-1	-71
pH[d]	s.u.	6.79	6.73	6.42	6.13
Temperature[d]	C	15.7	9.1	10.1	13.6
Turbidity[d]	NTU	550	8.3	24.4	3.27
Common Ions[e]					
Ca	mg/L	--	--	291	325
Chloride[c]	mg/L	--	--	--	164
Fluoride[c]	µg/L	--	--	--	319
Hardness	mg/L	--	--	1040	1150
K	mg/L	--	--	10.6	13.3
Mg	mg/L	--	--	75.2	82.1
Na	mg/L	--	--	234	242
NH_4[c]	µg/L	--	--	--	25.7
NO_3+NO_2 as N[c]	µg/L	--	--	--	9060
SO_4[c]	mg/L	--	--	--	954
Metals[e]					
As	µg/L	5.9	6.3	5	5.3
Fe	µg/L	--	11U	1.0U	11.2
Mn	µg/L	--	48.3	55.4	73.4
Mo	µg/L	38.5	29	24.7J	27.5
Se	µg/L	26.7	68.2	143	127
U	µg/L	270	314	316	298
V	µg/L	288	276	243	301
Radiological					
U	µg/L	270	314	316	298

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R2-M1[a]

Analyte	Unit	09/13/99	10/20/99	11/16/99	01/11/00	04/12/00	08/16/00	10/17/00	01/23/01	04/16/01	07/09/01
Field Measurements											
Alkalinity[c]	mg/L	25	111	53	107	--	108	226	228	265	275
Conductivity[d]	µmhos/cm	2950	2650	2620	2570	5040	2490	2660	2440	2360	2170
DO[d]	mg/L	0.28	0.45	1.17	0.16	0.09	0.31	0.3	3.2	0.639	0.056
ORP[d]	mV	-368	-244	-279	-312	-228	-283	-214	-99	32	-71
pH[d]	s.u.	8.54	7.52	8.76	8.02	6.74	7.73	7.87	7.23	7.37	7.23
Temperature[d]	C	18.7	15.9	15.6	10.6	9.5	14	15.1	9.6	10.7	14.5
Turbidity[d]	NTU	--	13.5	20.1	17.4	9.07	3.2	5.21	2.43	9.43	9.7
Common Ions[e]											
Ca	mg/L	214	--	--	--	--	--	--	--	191	211
Chloride[c]	mg/L	--	--	--	--	--	--	--	--	--	89.4
Fluoride[c]	µg/L	--	--	--	--	--	--	--	--	--	1380J
Hardness	mg/L	774	--	--	--	--	--	--	--	693	748
K	mg/L	16.6	--	--	--	--	--	--	--	16.1	19.1
Mg	mg/L	58.3	--	--	--	--	--	--	--	52.5	53.8
Na	mg/L	331	--	--	--	--	--	--	--	231	239
NH_4[c]	µg/L	--	--	--	--	--	--	--	--	--	2870
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	--	--	1530J
SO_4[c]	mg/L	--	--	--	--	--	--	--	--	--	771
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	2070	--	--	--	--	--	--	10600	12400	15100
Mn	µg/L	613	--	--	--	--	--	--	434	360	455
Mo	µg/L	18.0J	21.4	20.7	21.8	53.5	20.1	20.5	21.2	26.6	25.6
Se	µg/L	0.30	3.8	0.60	3.5	28.7	0.45	2.2	15.7	42.4	37.4
U	µg/L	0.20U	0.20U	0.20U	18.7	79.7	12.6	35.6	53.3	77.8	70.5
V	µg/L	1.0U	1.0U	1.0U	1U	0.4U	1.2U	1.2U	1.4U	0.4U	0.3U
Radiological											
U	µg/L	0.20U	0.20U	0.20U	18.7	79.7	12.6	35.6	53.3	77.8	70.5

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UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R2-M2[a]

Analyte	Unit	09/13/99	10/20/99	11/17/99	01/11/00	04/11/00	08/16/00	10/17/00	01/23/01	04/16/01	07/09/01
Field Measurements											
Alkalinity[c]	mg/L	55	94	--	265	285	211	279	250	249	257
Conductivity[d]	µmhos/cm	2830	2550	2890	2900	4930	2600	2740	2480	2270	2210
DO[d]	mg/L	0.17	0.47	0.29	0.21	0.22	0.35	0.3	2.5	0.504	0.063
ORP[d]	mV	-331	-203	-235	48	-36	56	-69	7	-20	-50
pH[d]	s.u.	8.19	7.64	8.08	7.26	6.72	7.08	7.23	6.9	6.93	6.85
Temperature[d]	C	16.7	16.4	15.2	10.9	9	14.2	15	9.2	10.4	11.8
Turbidity[d]	NTU	--	14.0	21.7	11.2	5.37	8.19	1.43	8.35	12.5	3.29
Common Ions[e]											
Ca	mg/L	189	167	194	265	255	203	266	219	195	212
Chloride[c]	mg/L	146J	7.18	126	156	127	83.5	85.3	104	94.8J	90.5
Fluoride[c]	µg/L	--	--	--	--	--	--	--	380	327	504J
Hardness	mg/L	810	685	755	984	914	749	939	780	695	747
K	mg/L	17.4	15.8	20.7	21.0	19.2	20.7	22.4	21.6	18.6	20.1
Mg	mg/L	82.2	65.2	65.6	78.3	67.4	58.8	66.8	56.6	50.6	52.8
Na	mg/L	334	307	338	365	282	308	316	261	218	221
NH_4[c]	µg/L	--	--	--	5120	4050	3960	1550	--	--	594
NO_2 as N[c]	µg/L	--	--	--	1270	1710	623	1220	--	--	--
NO_3 as N[c]	µg/L	24.8	1970	5240	9580	28700	4370	9630	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	10200	10700	6450J
SO_4[c]	mg/L	1100	62.5	1200	1230	1170	1080	1130	939	567	757
Metals[e]											
As	µg/L	0.40U	0.45	0.40U	0.4U	0.24	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	5190	2720	3180	5600	7250	3040	1920	2950	1640	1410
Mn	µg/L	879	350	315	583	548	353	437	489	439	545
Mo	µg/L	16.0J	28.4	27.6	28.5	41.2J	56.4	42.6	66.1	62.8	70.5
Se	µg/L	2.0	3.2	2.3	12.8	29.4	2	6.1	39.1	69.2	67.3
U	µg/L	1.8	14.3	46.0	145	161J	143	265	323	329	367
V	µg/L	1.0U	1.0U	1.0U	1U	0.4U	1.2U	1.2U	20.1	26.9	40.8
Radiological											
U	µg/L	1.8	14.3	46.0	145	161J	143	265	323	329	367

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R2-M3[a]

Analyte	Unit	09/13/99	10/20/99	11/17/99	01/11/00	04/12/00	08/16/00	10/17/00	01/24/01	04/17/01	07/10/01
Field Measurements											
Alkalinity[c]	mg/L	104	175	140	343	280	197	333	252	253	273
Conductivity[d]	µmhos/cm	2980	2700	2730	3000	4800	3420	2650	2430	2280	2240
DO[d]	mg/L	0.21	0.41	0.75	0.4	0.13	0.3	0.19	0.1	0.879	0.366
ORP[d]	mV	-285	-245	-208	-149	-144	-158	-142	31	107	-52
pH[d]	s.u.	7.74	7.58	7.82	7.01	6.74	7.58	7.29	7.34	6.86	6.81
Temperature[d]	C	17.4	16.0	16.3	10.9	8.9	16.6	15.8	8.2	8.5	12
Turbidity[d]	NTU	--	118	10.1	3.93	8.25	4.47	7.05	6.42	3.65	2.36
Common Ions[e]											
Ca	mg/L	224	--	--	--	--	--	--	--	202	228
Chloride[c]	mg/L	--	--	--	--	--	--	--	--	--	98.5
Fluoride[c]	µg/L	--	--	--	--	--	--	--	--	--	362
Hardness	mg/L	886	--	--	--	--	--	--	--	719	801
K	mg/L	17.6	--	--	--	--	--	--	--	17.0	19.4
Mg	mg/L	79.3	--	--	--	--	--	--	--	52.2	56.3
Na	mg/L	324	--	--	--	--	--	--	--	219	220
NH_4[c]	µg/L	--	--	--	--	--	--	--	--	--	690
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	--	--	5800J
SO_4[c]	mg/L	--	--	--	--	--	--	--	--	--	768
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	6220	--	--	--	--	--	--	1380	1290	2770
Mn	µg/L	1000	--	--	--	--	--	--	305	286	355
Mo	µg/L	16.6	36.7	28.7	32.4J	32.8	46	18	30.8	34.4	45.8
Se	µg/L	6.9	8.0	3.6	17.4	29.3	2.2	11.1	38	59.4	76.4
U	µg/L	9.3	37.4	36.3	228	138	153	206	151	211	288
V	µg/L	1.0U	1.0U	1.0U	1U	0.4U	1.2U	1.2U	1.4U	0.40U	4.6
Radiological											
U	µg/L	9.3	37.4	36.3	228	138	153	206	151	211	288

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R2-M4[a]

Analyte	Unit	09/14/99	10/20/99	11/16/99	01/11/00	04/11/00	08/16/00	10/17/00	01/23/01	04/17/01	07/11/01	10/15/01	01/28/02	04/02/02	07/09/02	09/30/02
Field Measurements																
Alkalinity[c]	mg/L	42	74	64	195	250	319	282	267	272	315	363	355	350	354	356
Conductivity[d]	µmhos/cm	2900	2460	2540	3000	4830	2390	2540	2530	2360	2340	2120	1883	2000	1795	1898
DO[d]	mg/L	0.18	0.39	1.70	0.4	0.46	0.26	0.08	0.7	0.71	0.376	0.207	812	0.7	0.82	2.2
ORP[d]	mV	-271	-181	-260	-121	-133	-184	-116	-125	24	-118	-67	-31	-155	-133	-34.1
pH[d]	s.u.	8.27	7.88	8.25	7.63	6.73	7.13	7.42	7.11	7.13	7.01	6.81	6.64	7.06	7	7.2
Temperature[d]	C	16.9	14.3	16.1	11.3	8.3	14.8	15.2	9.2	8.5	11.9	14.4	9.23	12.4	14.42	14.6
Turbidity[d]	NTU	--	5.90	7.55	14.7	14.7	--	8.09	12.7	3.23	2.98	7.85	15.9	55.3	3.67	12.2
Common Ions[e]																
Ca	mg/L	214	155	129	239	236	177	230	227	202	237	222	222	229	205	201
Chloride[c]	mg/L	151J	126	139	174	149	86.6	107	138	115J	115	99.2	79.9	80.7	75.5	74.6
Fluoride[c]	µg/L	--	--	--	--	--	--	--	303	280	261	422	162J	364	319J	25.1U
Hardness	mg/L	822	623	542	917	901	656	843	829	732	845	785	785	826	754	739
K	mg/L	13.9	12.9	14.7	16.0	16.5	18.3	21.1	20.1	16.8	19.6	18.8	15.3	14.7	15.9	15.8
Mg	mg/L	69.8	57.2	53.4	77.8	75.8	51.9	65.3	63.6	55.2	61.4	56.1	56.0	61.7	58.8	57.5
Na	mg/L	320	301	322	347	289	275	280	251	217	217	163	142	136	138	132
NH_4[c]	µg/L	--	--	--	4040	6300	3520	3050	--	--	1460	--	--	--	--	--
NO_2 as N[c]	µg/L	--	--	--	218	603	578	964	--	--	--	--	--	--	--	--
NO_3 as N[c]	µg/L	2160	434	544	5490	13500	4210	4470	--	--	--	--	--	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	7720	5260	2760	1420	223	656	498	201
SO_4[c]	mg/L	1140	1080	1160	1230	1120	956	983	925	589	783	645	656	671	638	613
Metals[e]																
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U	0.6U	0.6U	0.2	0.58	0.21
Fe	µg/L	3330	2270	617	4480	5870	4590	9370	14500	9730	19800	20500	20600	22400	28100	34500
Mn	µg/L	667	547	148	431	426	277	470	419	383	467	304	339	293	264	260
Mo	µg/L	18.8J	19.8	21.8	24.3	19.1J	35.6	24.2	25.6	28.4	24.9	28.6	16.3	19	19.9	11.6
Se	µg/L	0.48	0.63	0.36	14.1	27.6	5.9	18.9	45.7	66.7	39.8	43.6	41.5	37	30.6	8.9
U	µg/L	0.56	0.68	1.8	101	136J	86.4	104	113	124	130	259	178	169	172	90
V	µg/L	1.0U	1.0U	1.0U	1U	0.4U	1.2U	1.2U	2.5	0.40U	4.5	31.1	15.4	10	34.6	12.3
Radiological																
U	µg/L	0.56	0.68	1.8	101	136J	86.4	104	113	124	130	259	178	169	172	90

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R2-M5[a]

Analyte	Unit	09/14/99	10/19/99	11/16/99	01/11/00	04/11/00	08/16/00	10/17/00	01/23/01	04/17/01	07/10/01
Field Measurements											
Alkalinity[c]	mg/L	61	110	173	331	265	375	311	301	252	295
Conductivity[d]	µmhos/cm	2850	2630	2820	3010	3110	2510	2610	2570	2440	2340
DO[d]	mg/L	0.26	0.26	1.30	0.25	0.5	0.88	0.3	0	0.867	0.358
ORP[d]	mV	-288	-227	-183	-173	-35	-99	-60	-119	-98	-99
pH[d]	s.u.	7.92	7.42	7.07	6.93	6.9	6.74	7.05	6.83	6.86	6.33
Temperature[d]	C	16.7	16.2	16.0	10.1	8.3	16	15.1	9.1	8.8	13.2
Turbidity[d]	NTU	--	3.70	2.51	5.35	6.08	21.1	1.24	3.68	3.16	9.79
Common Ions[e]											
Ca	mg/L	204	--	--	--	--	--	--	--	223	243
Chloride[c]	mg/L	--	--	--	--	--	--	--	--	--	122
Fluoride[c]	µg/L	--	--	--	--	--	--	--	--	--	341
Hardness	mg/L	828	--	--	--	--	--	--	--	792	865
K	mg/L	14.6	--	--	--	--	--	--	--	16.8	20.3
Mg	mg/L	77.3	--	--	--	--	--	--	--	57.0	62.8
Na	mg/L	325	--	--	--	--	--	--	--	219	240
NH_4[c]	µg/L	--	--	--	--	--	--	--	--	--	527
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	--	--	5230
SO_4[c]	mg/L	--	--	--	--	--	--	--	--	--	816
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.34	0.83	1.7	3	2.6
Fe	µg/L	9990	--	--	--	--	--	--	3920	2540	5010
Mn	µg/L	1650	--	--	--	--	--	--	302	285	357
Mo	µg/L	14.7	25.1	27.9	33.3J	39	50.6	52.6	45.5	48.4	47.8
Se	µg/L	0.93	2.8	2.9	26.1	41.7	9.3	41.4	68.4	106	92.6
U	µg/L	0.20U	21.1	72.3	346	344	209	283	320	321	298
V	µg/L	1.0U	1.0U	1.0U	1U	6.1	39.7	78.2	105	132	144
Radiological											
U	µg/L	0.20U	21.1	72.3	346	344	209	283	320	321	298

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R2-M6[a]

Analyte	Unit	09/14/99	10/19/99	11/17/99	01/11/00	04/12/00	08/16/00	10/17/00	01/23/01	04/17/01	07/10/01
Field Measurements											
Alkalinity[c]	mg/L	333	276	313	354	315	250	311	307	300	329
Conductivity[d]	µmhos/cm	3280	3010	3260	3050	5180	4210	2640	2690	2530	2590
DO[d]	mg/L	0.88	0.55	0.58	0.27	0.31	0.78	0.6	0.2	0.494	0.378
ORP[d]	mV	-86	-96	-28	-63	-82	214	13	23	-29	-80
pH[d]	s.u.	6.60	6.61	6.64	6.57	6.28	7.08	6.84	6.85	6.7	6.35
Temperature[d]	C	14.7	14.3	13.8	10	9.3	16.1	15.9	9.6	9	11.9
Turbidity[d]	NTU	--	9.38	1.36	3.67	2.96	1.86	1.65	96.3	2.03	11.1
Common Ions[a]											
Ca	mg/L	--	--	--	--	--	--	--	--	256	295
Chloride[c]	mg/L	--	--	--	--	--	--	--	--	--	147
Fluoride[c]	µg/L	--	--	--	--	--	--	--	--	--	336
Hardness	mg/L	--	--	--	--	--	--	--	--	897	1040
K	mg/L	--	--	--	--	--	--	--	--	13.6	16.1
Mg	mg/L	--	--	--	--	--	--	--	--	62.7	74.4
Na	mg/L	--	--	--	--	--	--	--	--	220	264
NH_4[c]	µg/L	--	--	--	--	--	--	--	--	--	451
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	--	--	6540
SO_4[c]	mg/L	--	--	--	--	--	--	--	--	--	900
Metals[e]											
As	µg/L	0.40U	0.67	1.0	0.86	1.1	0.51	0.27	0.73	0.5U	0.91
Fe	µg/L	--	--	--	--	--	--	--	617	575	3610
Mn	µg/L	--	--	--	--	--	--	--	173	116	201
Mo	µg/L	52.4	59.7	56.0	43.2J	38.9	53.1	32.4	36.7	33.4J	36.3
Se	µg/L	27.4	15.9	13.5	37.6	63	10	12.9	69.1	110	106
U	µg/L	444	310	487	677	466	310	257	334	358	316
V	µg/L	15.0	122	159	103	82.3	39.9	30.6	51.5	44.3	83.9
Radiological											
U	µg/L	444	310	487	677	466	310	257	334	358	316

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R2-M7[a]

Analyte	Unit	09/13/99	10/19/99	11/16/99	01/11/00	04/11/00	08/15/00	10/16/00	01/23/01	04/17/01	07/10/01	10/11/01	10/15/01	01/28/02	04/02/02	07/09/02	09/30/02
Field Measurements																	
Alkalinity[c]	mg/L	380	338	380	382	316	279	237	275	292	333	428	--	825	363	392	421
Conductivity[d]	µmhos/cm	3350	3170	3180	3260	3230	4030	2460	2490	2600	2580	2290	--	2140	2090	1888	2043
DO[d]	mg/L	0.49	0.40	0.42	0.45	0.67	0.48	0.6	0	0.602	0.292	0.171	--	354	0.7	--	3
ORP[d]	mV	-179	-103	-87	31	102	-56	-90	-25	-80	-196	-164	--	-82	-94	-104	-24.1
pH[d]	s.u.	6.82	6.96	6.71	6.59	6.49	7	7	7.22	6.83	6.78	7.3	--	6.89	6.91	7.04	7.02
Temperature[d]	C	16.1	14.3	14.9	10.5	8.6	14.8	15.4	9.4	9.3	12.2	14.1	--	8.3	10.9	13.96	16.1
Turbidity[d]	NTU	--	1.49	4.27	8.58	3.15	5.29	9.17	4.8	8.9	4.01	1.87	--	25.8	13.9	1.19	7.75
Common Ions[e]																	
Ca	mg/L	371	311	307	383	301	223	211	227	232	263	233	--	242	251	229	229
Chloride[c]	mg/L	163J	172	163	198	196	109	107	149	133J	151	118	120	90.4	93.7	85.2	81.8
Fluoride[c]	µg/L	--	--	--	--	--	--	--	271	252	230	372	443	26.2UJ	25.1U	536	236
Hardness	mg/L	1340	1120	1110	1380	1090	806	778	856	849	976	833	--	867	907	833	823
K	mg/L	17.2	16.3	17.7	17.7	12.9	13.8	14.6	13.6	12.0	15.7	13.9	--	12.7	12.1	12.5	13.0
Mg	mg/L	99.3	82.5	82.7	102	81.9	60.4	60.9	70.2	65.5	77.5	61.1	--	63.9	68.0	63.5	61.1
Na	mg/L	328	315	323	332	260	279	284	265	222	262	186	--	152	143	143	132
NH_4[c]	µg/L	--	--	--	401	749	1540	1030	--	--	2620	--	--	--	--	--	--
NO_2 as N[c]	µg/L	--	--	--	65.8	48.4	44.2	49.9	--	--	--	--	--	--	--	--	--
NO_3 as N[c]	µg/L	6800	10100	16100	14000	23800	4110	3190	--	--	--	--	--	--	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	4670	6760	128	175	22.2	280	366	129	188
SO_4[c]	mg/L	1240	1350	1270	1280	1200	976	933	967	787	877	780	812	755	718	653	656
Metals[e]																	
As	µg/L	0.40U	0.40U	0.40U	0.79	0.86	0.3U	0.2U	0.2U	0.5U	0.5U	0.6U	--	0.6U	0.13	0.11	0.1U
Fe	µg/L	--	--	--	--	--	3780	3630	2140	5050	20400	40900J	--	30100	24600	30000	27200
Mn	µg/L	--	--	--	--	--	197	191	221	258	607	447	--	512	333	327	268
Mo	µg/L	22.2	32.1	49.5	42.1J	37J	46.3	46.2	32	24.7	13.5	7.6	--	9.3	1.8U	9.8	13.3
Se	µg/L	14.9	13.2	17.1	48.6	83	6.4	4	28.8	73.8	11.1	11.5	--	13.5	22	12.1	13.8
U	µg/L	173	180	470	654	522	274	168	249	291	109	104	--	108	130	90	128
V	µg/L	1.0U	3.5	76.2	133	88.3	24.2	17.3	15.9	14.7	4.2	1.1	--	0.57	2.1	1.3	4.3
Radiological																	
U	µg/L	173	180	470	654	522	274	168	249	291	109	104	--	108	130	90	128

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.y
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R2-M8[a]

Analyte	Unit	09/13/99	10/18/99	11/16/99	01/12/00	04/12/00	08/16/00	10/18/00	01/23/01	04/16/01	07/10/01
Field Measurements											
Alkalinity[c]	mg/L	342	306	360	391	370	312	318	404	353	328
Conductivity[d]	µmhos/cm	3220	3000	3170	3190	5150	2770	2660	2550	2710	2610
DO[d]	mg/L	0.11	0.27	0.74	0.57	0.14	0.24	--	0	0.794	0.263
ORP[d]	mV	-280	-241	-192	-157	-206	-134	-146	-73	-100	-144
pH[d]	s.u.	7.34	7.38	7.55	7.16	6.82	6.96	7.35	7.24	6.93	6.59
Temperature[d]	C	15.9	15.3	15.7	8.1	9	16.3	15.7	7.4	9.8	12.4
Turbidity[d]	NTU	--	1.75	1.91	22.6	43.9	6.2	5.72	12.6	23.2	15.9
Common Ions[e]											
Ca	mg/L	--	--	--	--	--	--	--	--	262	291
Chloride[c]	mg/L	--	--	--	--	--	--	--	--	--	152
Fluoride[c]	µg/L	--	--	--	--	--	--	--	--	--	289
Hardness	mg/L	--	--	--	--	--	--	--	--	934	1050
K	mg/L	--	--	--	--	--	--	--	--	11.7	16.2
Mg	mg/L	--	--	--	--	--	--	--	--	67.9	77.8
Na	mg/L	--	--	--	--	--	--	--	--	219	231
NH_4[c]	µg/L	--	--	--	--	--	--	--	--	--	951
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	--	--	3420
SO_4[c]	mg/L	--	--	--	--	--	--	--	--	--	911
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.21	0.3U	0.2U	0.2U	0.5U	0.56
Fe	µg/L	--	--	--	--	--	--	--	10000	9770	14500
Mn	µg/L	--	--	--	--	--	--	--	228	223	336
Mo	µg/L	8.4	20.7	15.6	27.4	12	20.4	17	16.7	16.3	15
Se	µg/L	2.1	11.0	8.4	35.1	49	15.5	11.5	54.6	95	71.1
U	µg/L	0.82	33.7	42.5	208	108	147	155	190	251	204
V	µg/L	1.0U	1.0U	1.1	1.1	0.4U	11.3	6.9	15.1	23.4	21.8
Radiological											
U	µg/L	0.82	33.7	42.5	208	108	147	155	190	251	204

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]*Total gross alpha excluding radon which is lost during analysis.*
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R2-M9[a]

Analyte	Unit	09/13/99	10/18/99	11/16/99	01/12/00	04/12/00	08/15/00	10/16/00	01/22/01	04/16/01	07/09/01
Field Measurements											
Alkalinity[c]	mg/L	*186*	*142*	*216*	*330*	*365*	*227*	334	364	354	346
Conductivity[d]	µmhos/cm	3100	2900	2860	2890	5260	4340	2700	2800	2700	2680
DO[d]	mg/L	0.23	1.44	1.35	0.3	0.18	0.62	1.4	0.2	0.769	0.779
ORP[d]	mV	-265	-232	-249	-224	-158	-60	-62	-71	-100	-157
pH[d]	s.u.	7.29	7.57	8.00	7.23	6.64	6.79	6.44	7.01	7.08	6.56
Temperature[d]	C	16.9	15.9	15.0	10.4	8.1	16.2	16.4	8.3	10.5	13.3
Turbidity[d]	NTU	--	4.31	4.67	7.51	8.54	9.43	4.6	13.2	12.7	11.3
Common Ions[e]											
Ca	mg/L	--	--	--	--	317	237	261	265	267	303
Chloride[c]	mg/L	--	--	--	--	200	134	124	165	167J	156
Fluoride[c]	µg/L	--	--	--	--	--	--	--	303	306	262
Hardness	mg/L	--	--	--	--	1160	892	949	971	961	1090
K	mg/L	--	--	--	--	9.65	12.3	12.6	12.3	11.8	15.2
Mg	mg/L	--	--	--	--	*90.5*	*72.9*	*72.3*	*75.1*	*71.4*	*80.1*
Na	mg/L	--	--	--	--	267	283	281	264	228	251
NH_4[c]	µg/L	--	--	--	--	--	3140	2680	--	--	1470
NO_2 as N[c]	µg/L	--	--	--	--	--	627	643	--	--	--
NO_3 as N[c]	µg/L	--	--	--	--	--	4570	5640	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	12100	--	--	6380	6970	2980
SO_4[c]	mg/L	--	--	--	--	1180	1010	1020	1060	466	925
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.21	0.2U	0.5U	0.52
Fe	µg/L	--	--	--	--	22000	15800	13000	14700	16500	22600
Mn	µg/L	--	--	--	--	483	264	203	240	269	311
Mo	µg/L	5.4	10.0	10.8	20.4	16.9	19.5	24.9	17.5	16.4	14
Se	µg/L	0.13	3.5	2.2	18.4	56.6	16.1	9.7	49.6	91.1	68.6
U	µg/L	*0.31*	*2.0*	*12.1*	*60.1*	*96.6*	*124*	*121*	*118*	*112*	*118*
V	µg/L	1.0U	1.0U	1.0U	1U	0.40U	8.7	23.8	30.2	31.4	43.8
Radiological											
U	µg/L	0.31	2.0	12.1	60.1	96.6	124	121	118	112	118

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UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]*Gross alpha minus uranium activity. Result rounded as appropriate.*
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R2-M10[a]

Analyte	Unit	09/13/99	10/18/99	11/16/99	01/12/00	04/12/00	08/15/00	10/18/00	01/22/01	04/16/01	07/09/01
Field Measurements											
Alkalinity[c]	mg/L	63	105	54	123	180	275	170	340	304	375
Conductivity[d]	µmhos/cm	2830	2620	2600	2570	4500	3570	2330	2530	2666	2710
DO[d]	mg/L	0.69	0.90	0.19	0.25	0.04	0.51	0.742	0.7	1	0.178
ORP[d]	mV	-232	-107	-254	-299	-316	-130	-236	-178	-192	-219
pH[d]	s.u.	7.60	7.58	8.24	7.63	7.41	7.98	7.76	7.6	7.7	7.03
Temperature[d]	C	17.6	16.2	14.7	10.7	9.2	16.4	16.6	8.9	9.8	13.9
Turbidity[d]	NTU	--	4.73	4.21	7.33	43.9	12	6.48	19	2.8	3.7
Common Ions[e]											
Ca	mg/L	--	--	--	--	--	--	--	--	240	290
Chloride[c]	mg/L	--	--	--	--	--	--	--	--	--	163
Fluoride[c]	µg/L	--	--	--	--	--	--	--	--	--	152
Hardness	mg/L	--	--	--	--	--	--	--	--	901	1070
K	mg/L	--	--	--	--	--	--	--	--	10.9	13.7
Mg	mg/L	--	--	--	--	--	--	--	--	73.2	83.2
Na	mg/L	--	--	--	--	--	--	--	--	222	246
NH_4[c]	µg/L	--	--	--	--	--	--	--	--	--	1870
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	--	--	34.2
SO_4[c]	mg/L	--	--	--	--	--	--	--	--	--	940
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	--	--	--	--	--	--	--	35500	36400	43800
Mn	µg/L	--	--	--	--	--	--	--	449	383	542
Mo	µg/L	9.2	7.8	5.3	0.4U	4.9	4.9	6.8	13.7	17.5	3.9
Se	µg/L	0.10U	0.10U	0.11	1.5	10	0.25	0.87	10	82.5	14.4
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.1U	0.1U	0.10U	0.27	3.4	1.2
V	µg/L	1.0U	1.0U	1.0U	1U	0.4U	1.2U	1.2U	1.4U	0.4U	0.3U
Radiological											
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.1U	0.1U	0.10U	0.27	3.4	1.2

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]*Gross alpha minus uranium activity. Result rounded as appropriate.*
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R3-M1[a]

Analyte	Unit	09/13/99	10/20/99	11/17/99	01/11/00	04/11/00	08/16/00	10/17/00	01/23/01	04/16/01	07/09/01
Field Measurements											
Alkalinity[c]	mg/L	59	103	112	236	--	230	288	280	267	298
Conductivity[d]	µmhos/cm	2840	2590	2790	2910	--	2610	2700	2540	2340	2230
DO[d]	mg/L	0.16	0.32	2.24	0.2	--	0.22	0.1	--	0.967	0.044
ORP[d]	mV	-345	-241	-205	-75	--	-132	-184	-52	-57	-111
pH[d]	s.u.	8.09	7.65	7.93	7.44	--	7.12	7.46	7.25	7.1	7.06
Temperature[d]	C	16.8	16.4	14.6	10.9	--	14.7	15.6	7.3	10.7	12
Turbidity[d]	NTU	--	6.02	13.7	14.4	--	4.45	2.77	2.13	3.47	2.26
Common Ions[e]											
Ca	mg/L	176	191	164	220	241	205	247	217	192	219
Chloride[c]	mg/L	138J	117	123	159	129	83.9	86.8	108	97.3J	91.9
Fluoride[c]	µg/L	--	--	--	--	--	--	--	325	337	379J
Hardness	mg/L	787	743	684	873	867	754	892	783	688	768
K	mg/L	17.7	18.7	21.6	21.7	18.2	20.9	22.0	21.1	17.8	19.5
Mg	mg/L	84.4	64.5	66.6	78.5	64.5	58.9	66.8	58.5	50.7	53.6
Na	mg/L	330	333	343	362	274	306	312	260	217	227
NH_4[c]	µg/L	--	--	--	9320	3680	3720	3080	--	--	1170
NO_2 as N[c]	µg/L	--	--	--	734	1120	646	1260	--	--	--
NO_3 as N[c]	µg/L	5.9	2530	2580	3840	29500	3940	5850	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	4500	6940	3510J
SO_4[c]	mg/L	1070	1090	1210	1240	1170	1080	1110	949	578	765
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	5430	4120	4130	21600	13200	7820	8970	14600	10800	12600
Mn	µg/L	1550	347	379	880	466	360	484	529	480	508
Mo	µg/L	9.9J	28.9	19.4	18.7	44.5J	55.8	34.6	42.9	47.4	43.8
Se	µg/L	0.21	3.2	0.96	9	31.5	2.7	5.3	35	60.8	53.3
U	µg/L	0.20U	20.3	15.6	41.4	157J	135	160	131	166	184
V	µg/L	1.0U	1.0U	1.0U	1U	3	1.2U	1.5	6	18.1	5.4
Radiological											
U	µg/L	0.20U	20.3	15.6	41.4	157J	135	160	131	166	184

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R3-M2[a]

Analyte	Unit	09/14/99	10/20/99	11/16/99	01/11/00	04/11/00	08/16/00	10/17/00	01/23/01	04/16/01	07/11/01	09/30/02
Field Measurements												
Alkalinity[c]	mg/L	33	38	40	180	330	220	294	293	276	318	399
Conductivity[d]	µmhos/cm	2880	2490	3780	2850	4920	2450	2550	2510	2390	2370	1961
DO[d]	mg/L	0.17	0.34	1.20	0.23	0.28	0.22	0.196	0.9	0.78	0.369	3.2
ORP[d]	mV	-361	-284	-280	-187	-211	-177	-156	-129	-13	-85	-34
pH[d]	s.u.	8.64	8.18	8.61	7.55	7	7.08	7.52	7.16	7.03	6.89	7.19
Temperature[d]	C	17.1	15.2	14.6	11.2	8.1	15.3	15.2	9.2	8.5	12.3	15
Turbidity[d]	NTU	--	5.00	6.77	2.46	7.4	2.8	13.6	14.3	7.16	4.18	14.5
Common Ions[e]												
Ca	mg/L	206	152	123	224	263	184	239	234	232	246	222
Chloride[c]	mg/L	161J	124	138	175	146	85.6	108	108	115J	116	74.3
Fluoride[c]	µg/L	--	--	--	--	--	--	--	209	330	337	259
Hardness	mg/L	811	628	543	894	955	679	866	852	825	870	794
K	mg/L	14.7	13.1	16.0	16.6	16.2	18.3	21.4	20.5	17.7	20.0	15.7
Mg	mg/L	72.1	60.3	57.3	81.3	72.5	53.4	65.4	65.0	59.7	62.0	58.1
Na	mg/L	326	316	336	355	270	283	283	255	227	215	129
NH_4[c]	µg/L	--	--	--	5040	4880	3160	2870	--	--	933	--
NO_2 as N[c]	µg/L	--	--	--	8.5U	712	795	988	--	--	--	--
NO_3 as N[c]	µg/L	447	2.3U	49.0	1810	15000	4630	4860	--	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	4300	7970	3720	118
SO_4[c]	mg/L	1180	1070	1190	1260	1110	956	981	755	608	791	624
Metals[e]												
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.25	0.3U	0.2U	0.2U	0.5U	0.5U	0.1U
Fe	µg/L	2310	3990	503	7710	11900	8710	20000	19400	12400	17300	36700
Mn	µg/L	700	881	249	635	498	343	488	417	345	431	288
Mo	µg/L	16.1J	16.8	21.8	24.8	21.2J	42.4	24.9	31.4	35	32.5	16.9
Se	µg/L	0.10U	0.10U	0.10U	8.5	33.2	6.5	19.8	43.4	93.4	62.8	10.6
U	µg/L	0.20U	0.20U	0.20U	15.9	98.2J	70.6	65	69.9	188	215	97
V	µg/L	1.0U	1.0U	1.0U	1U	0.4U	1.2U	1.2U	1.4U	6.5	15.6	2.4
Radiological												
U	µg/L	0.20U	0.20U	0.20U	15.9	98.2J	70.6	65	69.9	188	215	97

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R3-M3[a]

Analyte	Unit	09/13/99	10/19/99	11/17/99	01/11/00	04/11/00	08/15/00	10/16/00	01/23/01	04/17/01	07/10/01	09/30/02
Field Measurements												
Alkalinity[c]	mg/L	398	338	256	389	317	292	235	316	303	387	399
Conductivity[d]	µmhos/cm	3360	3180	3250	3220	3250	3970	2320	2670	2540	2630	2061
DO[d]	mg/L	0.70	0.65	0.51	0.47	0.44	0.56	0.7	0.1	1.014	0.295	3.9
ORP[d]	mV	-153	-94	-88	-72	113	-39	-107	-126	-126	-192	-13.8
pH[d]	s.u.	6.76	6.79	6.76	6.66	6.47	7.23	7.18	7.32	7.03	6.75	6.85
Temperature[d]	C	15.7	14.1	13.8	10.4	8.5	15.1	16	10.1	9.1	12.6	16.3
Turbidity[d]	NTU	--	1.55	3.57	8.85	3.03	2.79	9.26	3.77	22.7	7.94	11.8
Common Ions[e]												
Ca	mg/L	396	372	308	380	258	227	208	241	241	293	247
Chloride[c]	mg/L	161J	168	170	199	196	106	103	150	131J	151	81.7
Fluoride[c]	µg/L	--	--	--	--	--	--	--	302	250	254	350
Hardness	mg/L	1400	1320	1110	1360	929	812	755	885	876	1050	877
K	mg/L	16.6	18.5	17.5	18.2	11.0	14.5	15.0	13.3	12.4	15.7	13.3
Mg	mg/L	*100*	*94.2*	*82.6*	*100*	*69.2*	*59.5*	*57.3*	*68.8*	*66.6*	*77.3*	63.3
Na	mg/L	327	364	323	334	220	278	285	260	227	261	134
NH_4[c]	µg/L	--	--	--	913	932	2140	1690	--	--	1640	--
NO_2 as N[c]	µg/L	--	--	--	104	65.1	125	64.8	--	--	--	--
NO_3 as N[c]	µg/L	12300	17100	14900	13500	23300	3820	1940	--	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	6490	4340	1500	390
SO_4[c]	mg/L	1230	1330	1340	1290	1200	981	921	976	790	900	665
Metals[e]												
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.36	0.3U	0.2U	0.2U	0.5U	0.5U	0.1U
Fe	µg/L	--	--	--	--	--	1010	1290	6830	2610	17800	23000
Mn	µg/L	--	--	--	--	--	197	172	269	296	587	212
Mo	µg/L	32.3	43.5	45.8	38J	35.1J	51.2	53.6	25.6	23.9J	18	16.3
Se	µg/L	27.5	21.0	17.5	45.2	82.4	8.4	4	37.2	56.9	30.4	18.1
U	µg/L	278	273	425	594	534	345	202	268	286	164	192
V	µg/L	1.0U	11.9	24.7	40.5	53	15.1	7.9	4.7	6.7	2.1	4.4
Radiological												
U	µg/L	278	273	425	594	534	345	202	268	286	164	192

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]*Gross alpha minus uranium activity. Result rounded as appropriate.*
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R3-M4[a]

Analyte	Unit	09/13/99	10/18/99	11/16/99	01/12/00	04/12/00	08/15/00	10/16/00	01/22/01	04/16/01	07/09/01
Field Measurements											
Alkalinity[c]	mg/L	168	137	169	247	375	225	300	342	388	345
Conductivity[d]	µmhos/cm	3030	2770	5030	2810	5300	4070	2600	2770	2800	2690
DO[d]	mg/L	0.20	1.08	0.75	0.27	0.11	0.5	1.5	0.4	0.974	0.296
ORP[d]	mV	-278	-283	-280	-290	-212	-203	-182	-121	-112	-151
pH[d]	s.u.	7.27	7.50	7.81	7.5	6.84	7.32	7.4	7.38	7.12	6.61
Temperature[d]	C	16.8	15.5	16.0	10.4	8.1	16.8	16.5	8.2	10.3	13.1
Turbidity[d]	NTU	--	4.51	3.78	2.95	11.9	7.81	8.49	13.2	16.9	6.2
Common Ions[e]											
Ca	mg/L	--	--	--	--	312	197	246	259	275	303
Chloride[c]	mg/L	--	--	--	--	201	130	122	165	170J	155
Fluoride[c]	µg/L	--	--	--	--	--	--	--	321	273	288
Hardness	mg/L	--	--	--	--	1150	785	919	956	984	1090
K	mg/L	--	--	--	--	9.49	12.3	12.9	12.5	11.7	15.5
Mg	mg/L	--	--	--	--	90.9	71.1	73.9	75.1	72.1	80.3
Na	mg/L	--	--	--	--	247	289	288	263	228	253
NH_4[c]	µg/L	--	--	--	--	--	4300	3920	--	--	1340
NO_2 as N[c]	µg/L	--	--	--	--	--	168	827	--	--	--
NO_3 as N[c]	µg/L	--	--	--	--	--	470	3380	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	10900	--	--	5060	9040	3340
SO_4[c]	mg/L	--	--	--	--	1190	1010	1020	1050	470	919
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	--	--	--	--	31100	25700	20700	22700	15300	24200
Mn	µg/L	--	--	--	--	606	401	359	321	224	309
Mo	µg/L	2.4	5.7	5.0	10	15.1	10.6	16	16.8	18.9	17.7
Se	µg/L	0.10U	0.30	0.25	13.1	54	6.1	6.4	47.4	97.1	69
U	µg/L	0.20U	0.20U	0.20U	1.7	36.5	27	85	73.2	164	161
V	µg/L	1.0U	1.0U	1.0U	1U	0.4U	1.2U	1.2U	3.6	11.2	15.6
Radiological											
U	µg/L	0.20U	0.20U	0.20U	1.7	36.5	27	85	73.2	164	161

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[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R4-M1[a]

Analyte	Unit	09/13/99	10/20/99	11/17/99	01/11/00	04/11/00	08/16/00	10/17/00	01/23/01	04/16/01	07/09/01
Field Measurements											
Alkalinity[c]	mg/L	12	35	40	43	83	50	39	67	118	105
Conductivity[d]	µmhos/cm	2860	2370	2520	2610	4320	2360	2330	2080	2060	1913
DO[d]	mg/L	0.10	0.28	1.36	0.18	0.06	0.16	0.19	1.6	0.605	0.099
ORP[d]	mV	-398	-261	-365	-186	-533	-393	-380	-325	-148	-181
pH[d]	s.u.	9.29	9.41	9.81	7.76	8.34	9.38	9.4	8.1	8.28	7.94
Temperature[d]	C	16.7	16.4	14.9	11.2	10.4	13.7	15.1	9.7	9.9	12.2
Turbidity[d]	NTU	--	4.02	5.82	7.62	84	4.34	3.78	3.79	8.78	3.97
Common Ions[e]											
Ca	mg/L	179	123	118	120	137	127	94.6	83.6	106	102
Chloride[c]	mg/L	144J	117	128	157	126	85.3	89.3	108	98.5J	90.9
Fluoride[c]	µg/L	--	--	--	--	--	--	--	194	417	742J
Hardness	mg/L	792	537	552	610	625	548	561	449	493	474
K	mg/L	18.9	18.5	22.1	21.6	19.4	20.9	22.3	21.1	18.7	19.5
Mg	mg/L	83.9	55.7	62.4	75.4	68.8	56.0	78.9	58.4	55.5	53.2
Na	mg/L	333	330	346	363	289	316	311	262	234	220
NH_4[c]	µg/L	--	--	--	11100	23500J	6360	9090	--	--	4430
NO_2 as N[c]	µg/L	--	--	--	8.5U	560	27.0U	13.6U	--	--	--
NO_3 as N[c]	µg/L	6.9	9.0U	9.0U	18.1U	5750	31.0U	14.8U	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	7.1U	4.7U	4.7UJ
SO_4[c]	mg/L	1110	1020	1190	1140	1140	1070	1060	837	495	709
Metals[e]											
As	µg/L	0.40U	0.47	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	149	130	83.4	95.8	13200	338	687	7950	15300	15900
Mn	µg/L	1050	257	246	223	744	89	562	616	342	364
Mo	µg/L	1.9J	6.9	4.4	0.4U	10.8J	5	5.1	0.73	0.30U	2.9U
Se	µg/L	0.10U	0.10U	0.10U	0.1U	3.8	0.11	0.1U	0.12	2.7	2.6
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10UJ	0.10U	0.10U	0.1U	0.10U	0.1U
V	µg/L	1.0U	1.4	1.0U	1U	0.4U	1.2U	1.2U	1.4U	0.4U	0.3U
Radiological											
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10UJ	0.10U	0.10U	0.1U	0.10U	0.1U

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[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R4-M2[a]

Analyte	Unit	09/13/99	10/20/99	11/17/99	01/11/00	04/12/00	08/16/00	10/17/00	01/24/01	04/16/01	07/10/01
Field Measurements											
Alkalinity[c]	mg/L	8	41	36	32	105	31	110	120	149	218
Conductivity[d]	µmhos/cm	2850	2350	2570	2500	4420	3500	2320	2230	2180	2160
DO[d]	mg/L	0.22	0.32	1.47	0.14	0.09	0.53	0.37	0	1.1	0.193
ORP[d]	mV	-381	-283	-271	-390	-308	-15	-239	-273	-190	-177
pH[d]	s.u.	8.69	9.96	9.99	9.03	7.45	8.65	7.86	7.97	8.06	7.58
Temperature[d]	C	17.4	16.2	15.7	11.7	9.8	17.2	16.3	9.3	12.2	12.1
Turbidity[d]	NTU	--	31.4	6.57	5.05	5.18	3.69	10.5	7.68	4.71	3.02
Common Ions[e]											
Ca	mg/L	174	--	--	--	--	--	--	--	129	174
Chloride[c]	mg/L	--	--	--	--	--	--	--	--	--	109
Fluoride[c]	µg/L	--	--	--	--	--	--	--	--	--	539
Hardness	mg/L	766	--	--	--	--	--	--	--	547	680
K	mg/L	18.4	--	--	--	--	--	--	--	16.5	19.5
Mg	mg/L	80.4	--	--	--	--	--	--	--	54.5	59.6
Na	mg/L	325	--	--	--	--	--	--	--	220	220
NH_4[c]	µg/L	--	--	--	--	--	--	--	--	--	3230
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	--	--	4.7UJ
SO_4[c]	mg/L	--	--	--	--	--	--	--	--	--	767
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	950	--	--	--	--	--	--	21600	25000	36200
Mn	µg/L	1120	--	--	--	--	--	--	402	350	483
Mo	µg/L	5.0	13.4	13.2	0.4UJ	4.6	5.7	0.3U	1.9	6.4	2.9U
Se	µg/L	0.10U	0.10U	0.10U	0.1U	6.8	0.11	0.1U	2.4	25.9	4
U	µg/L	0.20U	0.20U	0.20U	0.11	0.10U	0.10U	0.10U	0.1U	0.1U	0.1U
V	µg/L	1.0U	1.0U	1.0U	1U	0.4U	1.2U	1.2U	1.4U	0.4U	0.3U
Radiological											
U	µg/L	0.20U	0.20U	0.20U	0.11	0.10U	0.10U	0.10U	0.1U	0.1U	0.1U

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[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]*Uranium activity greater than gross alpha.*
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

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Alluvial Ground Water -- Downgradient -- R4-M3[a]

Analyte	Unit	09/14/99	10/20/99	11/16/99	01/11/00	04/11/00	08/16/00	10/17/00	01/23/01	04/17/01	07/11/01	10/15/01	01/31/02	04/02/02	07/09/02	09/30/02
Field Measurements																
Alkalinity[c]	mg/L	15	17	35	39	45	30	93	60	92	88	278	241	288	355	284
Conductivity[d]	µmhos/cm	2840	2360	2510	2710	4330	2100	2240	2080	2090	1936	1870	1730	1874	1767	1647
DO[d]	mg/L	0.25	0.34	1.61	0.43	0.05	0.13	0.06	0	0.856	0.597	0.178	0.78	0.6	0.83	1.6
ORP[d]	mV	-371	-295	-340	-352	-414	-423	-316	-286	-74	-162	-189	-137	-203	-216	-52
pH[d]	s.u.	9.83	9.71	9.51	9.3	8.05	8.5	8.19	8.05	7.64	7.73	7.61	7.48	7.45	7.54	7.51
Temperature[d]	C	17.4	15.1	15.5	11.8	8.8	14.7	15.7	9.2	8.8	12.5	14.5	8.47	11.6	14.98	15.5
Turbidity[d]	NTU	--	1.79	1.95	2.99	6.8	3.22	3.28	13.6	4.42	3.39	8.31	4.2	17	6.84	12.1
Common Ions[e]																
Ca	mg/L	205	134	107	137	138	82.5	105	102	118	103	144	169	182	188	150
Chloride[c]	mg/L	159J	128	125	177	158	87.6	108	136	117J	117	98.1	80.1	80.4	73.8	73.1
Fluoride[c]	µg/L	--	--	--	--	--	--	--	416	731	695	413	177	248	25.1UJ	141
Hardness	mg/L	808	530	485	697	646	409	544	509	543	515	591	661	710	699	606
K	mg/L	14.1	13.0	16.2	18.5	15.8	18.1	21.4	19.2	17.5	18.9	18.7	15.5	14.8	14.0	16.3
Mg	mg/L	71.9	47.4	52.8	86.2	73.1	49.2	68.4	61.8	60.2	62.7	56.3	58.0	62.1	55.8	56.2
Na	mg/L	320	318	330	365	277	274	280	247	231	214	163	143	136	121	130
NH_4[c]	µg/L	--	--	--	7380	17000	6340	8220	--	--	2430	--	--	--	--	--
NO_2 as N[c]	µg/L	--	--	--	8.5U	13.6U	13.5U	13.6U	--	--	--	--	--	--	--	--
NO_3 as N[c]	µg/L	9.0U	2.3	42.5	18.1U	41.6	15.5U	14.8U	--	--	--	--	--	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	150	6.9	7.9	7.3U	7.3U	156	4.9U	30.6
SO_4[c]	mg/L	1180	1030	1100	1210	1090	876	930	865	530	710	680	675	636	601	557
Metals[e]																
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U	0.6U	0.6U	0.1U	0.1U	0.1U
Fe	µg/L	85.3	113	9.0U	348	7250	1880	12400	12000	16600	12300	29900	39800	45900	46000	36400
Mn	µg/L	392	383	306	1070	616	171	885	338	357	336	396	519	454	411	321
Mo	µg/L	0.8UJ	10.6	3.2	8.8	4.5J	6.5	9.1	3.8	0.3U	2.9U	1.9U	1.5U	1.8U	1.8U	1.7U
Se	µg/L	0.10U	0.10U	0.10U	0.13	0.49	0.1U	0.1U	0.88	4.2	0.3U	0.3U	0.3U	0.2U	0.21	0.12
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10UJ	0.10U	0.10U	0.1U	0.10U	0.1U	0.1U	0.17	0.1U	0.1U	0.1U
V	µg/L	1.0U	1.0U	1.0U	1U	0.4U	1.2U	1.2U	1.4U	0.4U	0.3U	0.3U	0.4U	0.3U	0.3U	0.3U
Radiological																
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10UJ	0.10U	0.10U	0.1U	0.10U	0.1U	0.1U	0.17	0.1U	0.1U	0.1U

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[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

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Alluvial Ground Water -- Downgradient -- R4-M4[a]

Analyte	Unit	09/14/99	10/19/99	11/16/99	01/11/00	04/11/00	08/16/00	10/17/00	01/23/01	04/17/01	07/10/01
Field Measurements											
Alkalinity[c]	mg/L	17	23	38	44	117	50	102	85	140	196
Conductivity[d]	µmhos/cm	2700	2420	4400	2720	2870	2120	2220	2150	2160	2110
DO[d]	mg/L	0.32	0.30	0.86	0.22	0.12	0.34	0.19	0	0.735	0.258
ORP[d]	mV	-337	-307	-298	-378	47	-289	-375	-272	-191	-266
pH[d]	s.u.	9.62	9.69	--	9.17	7.96	8.7	8.58	7.96	7.72	7.46
Temperature[d]	C	16.8	16.1	15.9	11	9.7	15.5	15.2	9.9	9.2	13.1
Turbidity[d]	NTU	--	3.27	2.51	3.73	9.17	17.7	3.02	5.21	4	7.45
Common Ions[e]											
Ca	mg/L	166	--	--	--	--	--	--	--	119	153
Chloride[c]	mg/L	--	--	--	--	--	--	--	--	--	123
Fluoride[c]	µg/L	--	--	--	--	--	--	--	--	--	292
Hardness	mg/L	699	--	--	--	--	--	--	--	535	641
K	mg/L	15.0	--	--	--	--	--	--	--	16.5	20.1
Mg	mg/L	69.2	--	--	--	--	--	--	--	57.8	62.8
Na	mg/L	324	--	--	--	--	--	--	--	219	243
NH_4[c]	µg/L	--	--	--	--	--	--	--	--	--	1750
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	--	--	16.8
SO_4[c]	mg/L	--	--	--	--	--	--	--	--	--	765
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.42	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	162	--	--	--	--	--	--	12200	22400	33100
Mn	µg/L	717	--	--	--	--	--	--	399	446	487
Mo	µg/L	3.8	11.0	7.9	0.4UJ	0.4U	3.4	0.3U	1	0.3U	2.9U
Se	µg/L	0.10U	0.10U	0.10U	0.1U	6.4	0.1U	0.1U	0.34	7.3	0.3U
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10U	0.1U	0.10U	0.12	0.1U	0.1U
V	µg/L	1.0U	1.0U	1.2	1U	0.4U	1.2	1.2U	1.4U	0.4U	0.3U
Radiological											
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10U	0.1U	0.10U	0.12	0.1U	0.1U

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UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R4-M5[a]

Analyte	Unit	09/14/99	10/19/99	11/16/99	01/11/00	04/12/00	08/16/00	10/17/00	01/23/01	04/17/01	07/10/01
Field Measurements											
Alkalinity[c]	mg/L	186	170	208	156	110	44	35	30	81	65
Conductivity[d]	µmhos/cm	3070	2870	2970	2760	4500	3120	1960	2060	2080	2030
DO[d]	mg/L	0.10	0.52	1.04	0.17	0.08	0.54	0.636	0.3	0.988	0.3
ORP[d]	mV	-288	-252	-221	-262	-286	59	-350	-415	-229	-331
pH[d]	s.u.	7.41	7.48	7.51	7.51	7.36	9.18	9.36	9.33	8.18	7.83
Temperature[d]	C	14.9	14.5	14.3	10.5	9.1	16	16	10.2	9.6	12.5
Turbidity[d]	NTU	--	4.17	6.34	5.18	15.4	9.87	3.13	9.02	10.2	5.75
Common Ions[e]											
Ca	mg/L	--	--	--	--	--	--	--	--	77.7	105
Chloride[c]	mg/L	--	--	--	--	--	--	--	--	--	138
Fluoride[c]	µg/L	--	--	--	--	--	--	--	--	--	296
Hardness	mg/L	--	--	--	--	--	--	--	--	481	559
K	mg/L	--	--	--	--	--	--	--	--	13.7	17.5
Mg	mg/L	--	--	--	--	--	--	--	--	69.6	72.0
Na	mg/L	--	--	--	--	--	--	--	--	226	248
NH_4[c]	µg/L	--	--	--	--	--	--	--	--	--	2390
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	--	--	19.5
SO_4[c]	mg/L	--	--	--	--	--	--	--	--	--	782
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	--	--	--	--	--	--	--	146	4150	11800
Mn	µg/L	--	--	--	--	--	--	--	35.7	107	483
Mo	µg/L	3.7	0.8U	2.2	13.1J	20.5	24.1	31.6	21.8	11.4J	3
Se	µg/L	0.10U	0.30	0.13	0.1U	3.3	0.1U	0.1	0.1	0.3U	0.3U
U	µg/L	0.20U	0.20U	0.26	0.43	0.10U	0.1U	0.10U	0.11	0.12	0.1U
V	µg/L	1.0U	1.0U	1.0U	1U	0.4U	1.2U	1.2U	1.4U	0.4U	0.3U
Radiological											
U	µg/L	0.20U	0.20U	0.26	0.43	0.10U	0.1U	0.10U	0.11	0.12	0.1U

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R4-M6[a]

Analyte	Unit	09/14/99	10/19/99	11/16/99	01/11/00	04/11/00	08/16/00	10/16/00	01/23/01	04/17/01	07/10/01	10/11/01	10/15/01	01/28/02	04/02/02	07/09/02	09/30/02
Field Measurements																	
Alkalinity[c]	mg/L	50	26	51	69	42	34	38	45	241	10	48	--	199	243	258	293
Conductivity[d]	µmhos/cm	2980	2680	2700	2730	2720	3100	1935	2000	1990	2090	1472	--	1809	1845	1612	1695
DO[d]	mg/L	0.00	0.44	0.56	0.34	0.42	1.3	0.6	0.1	0.58	0.193	0.195	--	396	295	0.82	3.3
ORP[d]	mV	-337	-361	-332	-320	124	153	-162	-343	-202	-322	-200	--	-193	-253	-245	-53
pH[d]	s.u.	8.07	8.79	9.26	9.59	8.12	9.24	9.37	9.28	8.58	8.33	9.04	--	7.59	7.76	7.54	7.52
Temperature[d]	C	15.4	14.6	15.3	10.9	9	14.1	15.1	9.7	9.1	12.4	13.9	--	8.6	11	15.06	16.5
Turbidity[d]	NTU	--	3.62	3.51	5.49	6.39	1.61	2.07	2.12	8.34	8.93	4.66	--	8.81	9.3	5.33	389
Common Ions[e]																	
Ca	mg/L	228	165	138	165	147	66.8	51.3	55.0	67.8	101	23.8	--	123	158	137	128
Chloride[c]	mg/L	160J	164	161	206	195	111	102	141	132J	149	112	108	89.4	91.6	84.2	80.8
Fluoride[c]	µg/L	--	--	--	--	--	--	--	322	513	215	26.2U	26.2U	925J	537	265	139
Hardness	mg/L	985	744	669	821	732	353	341	393	441	578	283	--	584	686	613	580
K	mg/L	17.8	16.3	17.2	17.7	13.8	15.0	15.7	14.5	12.8	16.1	15.1	--	13.0	12.2	12.4	13.0
Mg	mg/L	101	80.5	78.9	99.2	88.7	45.1	51.8	62.0	66.1	79.2	54.4	--	67.2	70.7	65.8	63.3
Na	mg/L	329	324	319	334	281	283	285	248	225	256	178	--	151	144	140	136
NH_4[c]	µg/L	--	--	--	10400	14600	4060	2650	--	--	1180	--	--	--	--	--	--
NO_2 as N[c]	µg/L	--	--	--	8.5U	27.2U	27.0U	13.6U	--	--	--	--	--	--	--	--	--
NO_3 as N[c]	µg/L	129	9.0U	33.9	18.1U	29.6U	31.0U	14.8U	--	--	--	--	--	--	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	7.1U	10	33.2	7.3U	7.3U	104	190	4.9U	23.4
SO_4[c]	mg/L	1210	1230	1170	1200	1100	788	763	788	462	805	566	542	672	644	572	569
Metals[e]																	
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U	0.6U	--	0.6U	0.1U	0.1U	0.1U
Fe	µg/L	--	--	--	--	--	9.1U	93.2	593	1100	382	753J	--	29300	46600	39300	39300
Mn	µg/L	--	--	--	--	--	13.2	27.9	194	163	92.5	160	--	432	469	391	354
Mo	µg/L	2.5	0.8U	3.1	0.4UJ	0.4UJ	3.9	5.9	4.6	4.4J	9.2	2.2	--	1.5U	1.8U	1.8U	1.7U
Se	µg/L	0.10U	0.10U	0.10U	0.1U	0.2U	0.1U	0.1U	0.1U	0.3U	0.3U	0.3U	--	0.3U	0.2U	0.12	0.13
U	µg/L	0.20U	0.20U	0.20U	0.42	0.10U	0.10U	0.10U	0.11	0.1U	0.1U	0.1U	--	0.1U	0.1U	0.1U	0.1U
V	µg/L	1.0U	1.0U	1.0U	1.5	0.4U	1.2U	1.2U	1.4U	0.4U	0.3U	0.3U	--	0.4U	0.3U	0.3U	0.3U
Radiological																	
U	µg/L	0.20U	0.20U	0.20U	0.42	0.10U	0.10U	0.10U	0.11	0.1U	0.1U	0.1U	--	0.1U	0.1U	0.1U	0.1U

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R4-M7[a]

Analyte	Unit	09/13/99	10/18/99	11/16/99	01/12/00	04/12/00	08/16/00	10/18/00	01/23/01	04/16/01	07/10/01
Field Measurements											
Alkalinity[c]	mg/L	24	48	72	143	80	34	35	35	98	18
Conductivity[d]	µmhos/cm	2890	2620	2760	5190	4500	2110	2160	1935	2040	2020
DO[d]	mg/L	0.44	0.32	0.49	0.2	0.07	0.2	0.382	1.5	0.26	0.305
ORP[d]	mV	-336	-350	-355	-365	-308	-315	-299	-343	-193	-291
pH[d]	s.u.	9.00	9.29	8.76	7.93	7.73	9.14	9	8.92	8.08	7.86
Temperature[d]	C	15.9	15.0	15.9	9.6	9.6	--	16	8.4	10.7	13.1
Turbidity[d]	NTU	--	2.31	8.60	6.31	4.51	7.8	1.84	3.27	7.23	5.66
Common Ions[e]											
Ca	mg/L	--	--	--	--	--	--	--	--	68.4	86.2
Chloride[c]	mg/L	--	--	--	--	--	--	--	--	--	156
Fluoride[c]	µg/L	--	--	--	--	--	--	--	--	--	355
Hardness	mg/L	--	--	--	--	--	--	--	--	438	518
K	mg/L	--	--	--	--	--	--	--	--	11.5	16.0
Mg	mg/L	--	--	--	--	--	--	--	--	64.8	73.4
Na	mg/L	--	--	--	--	--	--	--	--	217	264
NH_4[c]	µg/L	--	--	--	--	--	--	--	--	--	1630
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	--	--	58.3
SO_4[c]	mg/L	--	--	--	--	--	--	--	--	--	758
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	--	--	--	--	--	--	--	1450	1810	1880
Mn	µg/L	--	--	--	--	--	--	--	279	223	181
Mo	µg/L	5.7	8.0	4.2	0.4U	0.4U	5.7	8.6	4.8	4.5	5.3
Se	µg/L	0.10U	0.10U	0.10U	0.2	0.2U	0.15	0.1U	0.13	0.3U	0.3U
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10U	0.10U	0.10U	0.11	0.1U	0.1U
V	µg/L	1.0U	1.0U	1.0U	1U	0.4U	1.2U	1.2U	1.4U	0.4U	0.3U
Radiological											
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10U	0.10U	0.10U	0.11	0.1U	0.1U

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R4-M8[a]

Analyte	Unit	09/13/99	10/18/99	11/16/99	01/12/00	04/12/00	08/15/00	10/16/00	01/22/01	04/16/01	07/09/01
Field Measurements											
Alkalinity[c]	mg/L	*41*	*24*	*52*	*58*	*55*	*74*	*46*	*47*	*118*	*121*
Conductivity[d]	µmhos/cm	2770	2540	2620	2650	4440	3380	2200	2250	2400	2350
DO[d]	mg/L	0.35	1.27	0.80	0.3	0.01	0.54	1.2	0.2	1.027	0.252
ORP[d]	mV	-321	-331	-362	-375	-400	-14	-206	-241	-209	-241
pH[d]	s.u.	9.39	9.58	9.85	8.98	8.48	9.19	9.51	8.1	7.64	7.17
Temperature[d]	C	16.5	15.2	15.5	10.8	8.7	15.5	16.2	7.5	10.3	16
Turbidity[d]	NTU	--	4.25	4.48	2.24	3.23	5.42	3.98	6.42	8.86	14.5
Common Ions[e]											
Ca	mg/L	--	--	--	--	171	79.8	60.3	114	144	156
Chloride[c]	mg/L	--	--	--	--	197	121	119	160	165J	153
Fluoride[c]	µg/L	--	--	--	--	--	--	--	1230	963	1270
Hardness	mg/L	--	--	--	--	797	450	531	596	652	717
K	mg/L	--	--	--	--	11.3	12.7	14.0	13.0	12.0	16.2
Mg	mg/L	--	--	--	--	*89.8*	*60.8*	*92.4*	*75.5*	*70.9*	*79.5*
Na	mg/L	--	--	--	--	265	291	291	269	228	266
NH_4[c]	µg/L	--	--	--	--	--	3400	4130	--	--	2470
NO_2 as N[c]	µg/L	--	--	--	--	--	27.0U	13.6U	--	--	--
NO_3 as N[c]	µg/L	--	--	--	--	--	31.0U	14.8U	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	32.4U	--	--	570	7.3	33.9
SO_4[c]	mg/L	--	--	--	--	1100	851	911	916	457	862
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.7
Fe	µg/L	--	--	--	--	2930	9.1U	65.1	15600	34600	29100
Mn	µg/L	--	--	--	--	573	84.4	85.9	721	429	440
Mo	µg/L	2.4	0.8U	5.1	0.4U	0.4U	3.4	0.3U	1.1	0.30U	2.9U
Se	µg/L	0.10U	0.10U	0.10	0.1U	0.2U	0.1U	0.18	0.11	10	1.9
U	µg/L	*0.20U*	*0.20U*	*0.20U*	*0.1U*	*0.10U*	*0.10U*	*0.10U*	*0.1U*	*0.1U*	*0.1U*
V	µg/L	1.0U	1.0U	1.0	1U	0.4U	1.2U	1.2U	1.4U	0.4U	0.3U
Radiological											
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10U	0.10U	0.10U	0.1U	0.1U	0.1U

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UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]*Gross alpha minus uranium activity. Result rounded as appropriate.*
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R5-M1[a]

Analyte	Unit	09/13/99	10/20/99	11/16/99	01/11/00	04/12/00	08/16/00	10/18/00	01/23/01	04/16/01	07/09/01
Field Measurements											
Alkalinity[c]	mg/L	27	25	34	25	61	53	40	43	88	92
Conductivity[d]	µmhos/cm	3060	2400	2510	2290	4280	2330	2410	2050	2030	1857
DO[d]	mg/L	0.26	0.23	0.97	0.25	0.02	0.71	0.1	3	0.678	0.166
ORP[d]	mV	-4	-265	-383	-325	-346	-234	-165	-331	-173	-199
pH[d]	s.u.	9.41	9.31	9.66	9.68	8.72	9.86	10.09	8.75	8.18	7.9
Temperature[d]	C	18.3	15.7	15.8	10.9	9.9	14.4	15.1	10.4	10.4	12.5
Turbidity[d]	NTU	--	5.38	4.83	2.8	5.49	2.92	1.92	6.63	8.32	8.98
Common Ions[e]											
Ca	mg/L	220	--	--	--	--	--	--	--	86.0	90.8
Chloride[c]	mg/L	--	--	--	--	--	--	--	--	--	87.5
Fluoride[c]	µg/L	--	--	--	--	--	--	--	--	--	331J
Hardness	mg/L	822	--	--	--	--	--	--	--	433	448
K	mg/L	16.7	--	--	--	--	--	--	--	16.7	19.5
Mg	mg/L	66.2	--	--	--	--	--	--	--	52.9	53.8
Na	mg/L	338	--	--	--	--	--	--	--	226	230
NH_4[c]	µg/L	--	--	--	--	--	--	--	--	--	4150
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	--	--	5.5J
SO_4[c]	mg/L	--	--	--	--	--	--	--	--	--	701
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	153	--	--	--	--	--	--	540	8600	13300
Mn	µg/L	377	--	--	--	--	--	--	531	515	696
Mo	µg/L	0.8UJ	9.2	4.2	0.4U	7.8	9	10.5	3.3	0.3U	2.9U
Se	µg/L	0.10U	0.10U	0.10U	0.1U	0.2U	0.1U	0.1U	0.1U	1.6	0.73
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10U	0.1U	0.10U	0.1U	0.1U	0.1U
V	µg/L	1.0U	1.0U	1.1	1U	0.4U	1.2U	1.2U	1.4U	0.4U	0.3U
Radiological											
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10U	0.1U	0.10U	0.1U	0.1U	0.1U

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]*Uranium activity results were qualified as unusable ("R").*
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R5-M2[a]

Analyte	Unit	09/13/99	10/20/99	11/17/99	01/11/00	04/11/00	08/16/00	10/17/00	01/23/01	04/16/01	07/09/01
Field Measurements											
Alkalinity[c]	mg/L	9	36	32	31	66	41	40	46	65	100
Conductivity[d]	µmhos/cm	2870	2420	2480	2620	4370	2350	2290	2040	1990	1822
DO[d]	mg/L	0.18	0.29	0.53	0.19	0.05	0.14	0.09	1.2	0.594	0.033
ORP[d]	mV	-385	-242	-374	-362	-475	-386	-154	-344	-185	-188
pH[d]	s.u.	9.34	9.38	9.87	9.81	8.3	9.38	9.85	8.43	8.03	7.69
Temperature[d]	C	17.1	16.7	15.0	11.8	8.8	13.5	14.6	10	10.3	12.7
Turbidity[d]	NTU	--	2.31	2.82	2.47	9.1	2.46	5.31	3.94	2.53	2.88
Common Ions[e]											
Ca	mg/L	182	122	116	119	121	128	90.7	72.0	93.8	89.4
Chloride[c]	mg/L	147J	117	128	159	127	84.4	90.6	103	99.3J	91.5
Fluoride[c]	µg/L	--	--	--	--	--	--	--	12.5U	195	981J
Hardness	mg/L	801	525	527	603	584	536	563	422	462	445
K	mg/L	18.9	17.7	22.2	21.5	19.4	20.6	22.8	21.7	18.7	20.2
Mg	mg/L	84.1	53.5	57.7	74.2	68.5	52.5	81.8	58.7	55.3	53.9
Na	mg/L	330	317	344	363	289	307	316	264	229	247
NH_4[c]	µg/L	--	--	--	11400	30000J	6500	8670	--	--	4630
NO_2 as N[c]	µg/L	--	--	--	8.5U	319	27.0U	13.6U	--	--	--
NO_3 as N[c]	µg/L	9.0U	9.0U	31.2	18.1U	1750	31.0U	14.8U	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	7.1U	4.7U	4.7UJ
SO_4[c]	mg/L	1170	1010	1160	1140	1140	1070	1060	835	481	698
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	178	154	121	125	7100	228	11.6U	2620	9760	10900
Mn	µg/L	789	333	290	327	800	93.4	66.8	486	378	408
Mo	µg/L	0.8UJ	0.8U	3.0	0.4U	9.3J	6.7	10	1.4	0.30U	2.9U
Se	µg/L	0.10U	0.10U	0.10U	0.1U	1.6	0.1U	0.1U	0.1U	0.89	0.71
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.1UJ	0.10U	0.10U	0.1U	0.10U	0.1U
V	µg/L	1.0U	1.0U	1.0U	1U	0.4U	1.2U	1.2U	1.4U	0.4U	0.3U
Radiological											
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.1UJ	0.10U	0.10U	0.1U	0.10U	0.1U

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UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R5-M3[a]

Analyte	Unit	09/13/99	10/20/99	11/17/99	01/11/00	04/12/00	08/16/00	10/17/00	01/24/01	04/16/01	07/10/01
Field Measurements											
Alkalinity[c]	mg/L	2	36	38	42	80	36	80	54	77	77
Conductivity[d]	µmhos/cm	2850	2300	2510	2500	4400	3510	2210	2050	2060	2000
DO[d]	mg/L	0.17	0.42	0.76	0.4	0.1	0.35	0.3	0	0.968	0.916
ORP[d]	mV	-358	-247	-259	-238	-378	-6	-345	-275	-183	-158
pH[d]	s.u.	9.24	9.82	10.10	9.8	8.06	9.17	9.22	8.23	7.98	7.39
Temperature[d]	C	17.3	16.1	15.6	11.8	9.7	15.8	16.1	9.2	11.2	12.1
Turbidity[d]	NTU	--	3.18	5.89	1.43	5.79	9.87	6.85	5.24	3.2	2.75
Common Ions[e]											
Ca	mg/L	186	--	--	--	--	--	--	--	109	121
Chloride[c]	mg/L	--	--	--	--	--	--	--	--	112J	112
Fluoride[c]	µg/L	--	--	--	--	--	--	--	--	621	1980
Hardness	mg/L	796	--	--	--	--	--	--	--	516	553
K	mg/L	18.6	--	--	--	--	--	--	--	17.5	19.4
Mg	mg/L	80.4	--	--	--	--	--	--	--	59.1	61.0
Na	mg/L	327	--	--	--	--	--	--	--	230	220
NH_4[c]	µg/L	--	--	--	--	--	--	--	--	--	3740
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	--	4.7U	4.7UJ
SO_4[c]	mg/L	--	--	--	--	--	--	--	--	532	757
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	230	--	--	--	--	--	--	7780	14100	15500
Mn	µg/L	307	--	--	--	--	--	--	595	381	460
Mo	µg/L	2.1	11.9	13.9	0.4UJ	4.6	5.3	0.3U	1.2	0.30U	2.9U
Se	µg/L	0.10U	0.10U	0.10U	0.1U	1	0.1U	0.1U	0.13	1.9	0.3U
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10U	0.1U	0.10U	0.1U	0.10U	0.1U
V	µg/L	1.0U	1.0U	1.0U	1U	0.68	1.2U	1.2U	1.4U	0.4U	0.3U
Radiological											
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10U	0.1U	0.10U	0.1U	0.10U	0.1U

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R5-M4[a]

Analyte	Unit	09/14/99	10/20/99	11/16/99	01/11/00	04/11/00	08/16/00	10/17/00	01/23/01	04/17/01	07/11/01	07/09/02
Field Measurements												
Alkalinity[c]	mg/L	22	29	32	27	31	50	35	24	43	46	246
Conductivity[d]	µmhos/cm	2840	2330	2980	2720	4180	2050	2890	1958	2010	1927	1575
DO[d]	mg/L	0.16	0.35	1.76	0.27	0	0.14	0.1	0	0.874	0.474	0.63
ORP[d]	mV	-388	-314	-351	-400	-445	-316	-237	-288	-20	-198	-221
pH[d]	s.u.	9.82	9.68	9.49	10.28	8.84	9.52	9.96	8.7	7.51	8.04	7.51
Temperature[d]	C	17.4	16.0	8.0	11.9	9.2	15.7	16	9.2	8.8	12.3	14.55
Turbidity[d]	NTU	--	4.68	3.04	1.63	6.81	1.83	0.67	4.55	3.32	6.94	6.88
Common Ions[e]												
Ca	mg/L	211	135	116	146	132	66.7	56.9	75.0	94.2	92.8	132
Chloride[c]	mg/L	162J	129	144	183	157	88.7	104	141	116J	115	75.8
Fluoride[c]	µg/L	--	--	--	--	--	--	--	445	964	1120	374J
Hardness	mg/L	802	548	468	720	633	365	467	442	488	497	571
K	mg/L	14.2	12.0	15.3	17.7	16.5	17.9	21.4	19.6	17.7	19.5	14.9
Mg	mg/L	66.7	51.2	43.2	86.2	73.6	48.2	78.8	61.9	61.3	64.5	58.5
Na	mg/L	319	307	325	360	290	277	277	249	230	215	128
NH_4[c]	µg/L	--	--	--	8880	18700	7010	7190	--	--	2090	--
NO_2 as N[c]	µg/L	--	--	--	8.5U	13.6U	13.5U	13.6U	--	--	--	--
NO_3 as N[c]	µg/L	2.3U	2.3U	18.0	18.1U	14.8U	15.5U	14.8U	--	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	122	4.7U	7.3U	4.9U
SO_4[c]	mg/L	1160	1040	1040	1300	1050	835	886	824	479	719	569
Metals[e]												
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U	0.1U
Fe	µg/L	169	126	13.5	128	849	85.4	11.6U	609	5740	6150	32300
Mn	µg/L	390	418	287	437	515	81.1	80.7	439	561	560	394
Mo	µg/L	0.8UJ	0.8U	2.5	0.4U	7.4	8.7	10	4.8	0.3U	3.8	1.8U
Se	µg/L	0.10U	0.17	0.10U	0.1U	0.2U	0.1U	0.1U	0.1U	0.44	0.3U	0.23
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.1U	0.1U	0.10U	0.1U	0.10U	0.1U	0.1U
V	µg/L	1.0U	1.0U	1.1	1U	0.4U	1.2U	1.2U	1.4U	0.4U	0.3U	0.3U
Radiological												
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.1U	0.1U	0.10U	0.1U	0.10U	0.1U	0.1U

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UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R5-M5[a]

Analyte	Unit	09/14/99	10/19/99	11/16/99	01/11/00	04/11/00	08/16/00	10/17/00	01/23/01	04/17/01	07/10/01
Field Measurements											
Alkalinity[c]	mg/L	11	21	24	41	51	31	67	51	83	49
Conductivity[d]	µmhos/cm	2740	2340	2630	2580	2810	2040	2140	2090	2030	1818
DO[d]	mg/L	0.20	0.29	0.49	0.22	2.44	0.42	0.17	0	1.086	0.227
ORP[d]	mV	-416	-286	-325	-232	78	-291	-437	-320	-88	-274
pH[d]	s.u.	9.68	9.49	9.38	9.92	7.94	9.1	8.86	8.36	7.51	7.58
Temperature[d]	C	17.2	16.1	16.0	11.1	10.2	18.1	15.3	10	9.4	12.8
Turbidity[d]	NTU	--	4.24	2.88	3.84	10.6	11.1	3.28	5.69	31.1	13.4
Common Ions[e]											
Ca	mg/L	171	--	--	--	--	--	--	--	102	88.0
Chloride[c]	mg/L	--	--	--	--	--	--	--	--	--	124
Fluoride[c]	µg/L	--	--	--	--	--	--	--	--	--	819
Hardness	mg/L	729	--	--	--	--	--	--	--	487	473
K	mg/L	14.4	--	--	--	--	--	--	--	16.2	19.9
Mg	mg/L	73.4	--	--	--	--	--	--	--	56.4	61.4
Na	mg/L	313	--	--	--	--	--	--	--	212	237
NH_4[c]	µg/L	--	--	--	--	--	--	--	--	--	2050
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	--	--	16.3
SO_4[c]	mg/L	--	--	--	--	--	--	--	--	--	715
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	127	--	--	--	--	--	--	4370	18700	13300
Mn	µg/L	588	--	--	--	--	--	--	489	647	491
Mo	µg/L	2.4	0.8U	1.7	7.4J	0.4U	6	0.3U	1.3	3.8	2.9U
Se	µg/L	0.10U	0.10U	0.11	0.1U	0.59	0.1U	0.1U	0.15	0.3U	0.3U
U	µg/L	0.20U	0.20U	0.20U	0.46	0.10U	0.1U	0.10U	0.1U	0.1U	0.1U
V	µg/L	1.0U	1.0U	1.0U	1U	0.40U	1.2U	1.2U	1.4U	0.4U	0.3U
Radiological											
U	µg/L	0.20U	0.20U	0.20U	0.46	0.10U	0.1U	0.10U	0.1U	0.1U	0.1U

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[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[I]Uranium activity results were qualified as unusable ("R").
[J]*Uranium activity is below detection limits.*

Alluvial Ground Water -- Downgradient -- R5-M6[a]

Analyte	Unit	09/14/99	10/19/99	11/16/99	01/11/00	04/12/00	08/16/00	10/17/00	01/23/01	04/17/01	07/10/01
Field Measurements											
Alkalinity[c]	mg/L	82	60	70	38	45	54	34	58	67	57
Conductivity[d]	µmhos/cm	2910	2600	2970	2590	4390	3240	2040	2090	2060	1896
DO[d]	mg/L	0.19	0.24	0.53	0.17	0	0.72	0.72	0	0.522	0.276
ORP[d]	mV	-250	-337	-246	-332	-370	33	-262	-289	-223	-343
pH[d]	s.u.	7.43	8.22	7.90	8.3	7.97	8.97	9.22	8.26	7.87	8.07
Temperature[d]	C	15.2	14.8	14.6	10.5	9.3	16.6	15.4	9.9	9.5	12
Turbidity[d]	NTU	--	5.84	10.8	4.36	2.18	4.95	1.93	3.91	4.74	6.7
Common Ions[e]											
Ca	mg/L	--	--	--	--	--	--	--	--	85.5	69.0
Chloride[c]	mg/L	--	--	--	--	--	--	--	--	--	140
Fluoride[c]	µg/L	--	--	--	--	--	--	--	--	--	79
Hardness	mg/L	--	--	--	--	--	--	--	--	487	458
K	mg/L	--	--	--	--	--	--	--	--	13.1	16.9
Mg	mg/L	--	--	--	--	--	--	--	--	66.5	69.4
Na	mg/L	--	--	--	--	--	--	--	--	230	248
NH_4[c]	µg/L	--	--	--	--	--	--	--	--	--	2620
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	--	--	27.1
SO_4[c]	mg/L	--	--	--	--	--	--	--	--	--	699
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	--	--	--	--	--	--	--	6000	9750	4450
Mn	µg/L	--	--	--	--	--	--	--	366	391	224
Mo	µg/L	4.6	0.8U	4.3	0.4U	0.4U	4.6	6.4	2	0.3UJ	2.9U
Se	µg/L	0.10U	0.10U	0.10U	0.1U	0.2U	0.1U	0.1U	0.14	0.3U	0.3U
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10U	0.1U	0.10U	0.1U	0.1U	0.1U
V	µg/L	1.0U	1.0U	1.0U	1U	0.4U	1.2U	1.2U	1.4U	0.4U	0.3U
Radiological											
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10U	0.1U	0.10U	0.1U	0.1U	0.1U

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R5-M7[a]

Analyte	Unit	09/14/99	10/19/99	11/16/99	01/11/00	04/11/00	08/16/00	10/16/00	01/23/01	04/17/01	07/10/01	07/09/02
Field Measurements												
Alkalinity[c]	mg/L	32	38	48	66	40	--	51	44	117	72	174
Conductivity[d]	µmhos/cm	2940	2540	2600	2650	2740	3270	2050	2070	2090	1994	1465
DO[d]	mg/L	0.02	0.48	0.74	0.41	1.34	0.87	0.3	1.9	1.064	0.225	0.64
ORP[d]	mV	-345	-440	-299	-337	145	-61	-354	-222	-145	-335	-275
pH[d]	s.u.	7.49	9.28	9.72	9.21	8.58	8.89	8.95	8.21	7.59	7.9	7.77
Temperature[d]	C	15.2	14.7	15.0	11.4	9.1	14.1	15.1	9.5	9.2	12.8	13.88
Turbidity[d]	NTU	--	4.66	9.21	5.17	4.15	2.13	1.99	7.73	4.03	4.23	5.23
Common Ions[e]												
Ca	mg/L	230	162	144	181	150	77.1	65.4	67.5	88.9	90.7	98.3
Chloride[c]	mg/L	162J	165	166	200	203	93.1	99.3	141	128J	138	84.7
Fluoride[c]	µg/L	--	--	--	--	--	--	--	105	57.9	168	791
Hardness	mg/L	986	736	675	880	747	406	432	437	487	518	500
K	mg/L	16.9	16.1	17.3	18.3	14.0	17.4	17.2	16.3	13.5	16.8	11.5
Mg	mg/L	100	80.5	76.6	104	90.5	51.9	65.3	65.3	64.3	70.8	61.9
Na	mg/L	331	318	320	348	289	283	286	256	221	249	125
NH_4[c]	µg/L	--	--	--	6900	10200	6990	2790	--	--	2280	--
NO_2 as N[c]	µg/L	--	--	--	8.5U	27.2U	27.0U	13.6U	--	--	--	--
NO_3 as N[c]	µg/L	62.1	9.0U	59.0	18.1U	29.6U	31.0U	14.8U	--	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	151	6.1	27.1	4.9U
SO_4[c]	mg/L	1220	1210	1130	1170	1120	859	838	809	497	732	542
Metals[e]												
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2	0.3U	0.2U	0.2U	0.5U	0.5U	0.1U
Fe	µg/L	--	--	--	--	--	804	876	3620	14300	9600	26000
Mn	µg/L	--	--	--	--	--	226	183	389	452	457	360
Mo	µg/L	2.0	0.8U	3.9	0.4UJ	0.4UJ	9.1	7.8	5.3	0.3UJ	2.9U	1.8U
Se	µg/L	0.10U	0.10U	0.10U	0.1U	0.2U	0.1U	0.1U	0.1U	0.3U	0.3U	0.1U
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10U	0.1U	0.10U	0.1U	0.1U	0.1U	0.1U
V	µg/L	1.0U	1.2	1.2	1U	0.4U	1.2U	1.2U	1.4U	0.4U	0.3U	0.3U
Radiological												
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10U	0.1U	0.10U	0.1U	0.1U	0.1U	0.1U

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UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R5-M8[a]

Analyte	Unit	09/13/99	10/18/99	11/16/99	01/12/00	04/12/00	08/16/00	10/18/00	01/23/01	04/16/01	07/10/01
Field Measurements											
Alkalinity[c]	mg/L	34	28	64	41	35	35	34	22	74	20
Conductivity[d]	µmhos/cm	2910	2630	2690	2690	4290	1970	2090	1901	2950	2000
DO[d]	mg/L	0.07	0.36	0.57	0.13	0.05	0.23	--	0.1	0.64	0.272
ORP[d]	mV	-357	-274	-221	-423	-381	-178	-141	-160	-206	-381
pH[d]	s.u.	9.13	9.67	9.58	8.64	8.27	9.52	9.5	9.47	7.91	8.68
Temperature[d]	C	16.2	14.5	15.9	10.8	9.8	15	16.5	8.9	11.9	12.3
Turbidity[d]	NTU	--	1.72	3.65	5.76	2.8	9.6	1.56	2.01	40.7	19.9
Common Ions[e]											
Ca	mg/L	--	--	--	--	--	--	--	--	70.3	95.0
Chloride[c]	mg/L	--	--	--	--	--	--	--	--	--	151
Fluoride[c]	µg/L	--	--	--	--	--	--	--	--	--	432
Hardness	mg/L	--	--	--	--	--	--	--	--	413	499
K	mg/L	--	--	--	--	--	--	--	--	12.9	16.0
Mg	mg/L	--	--	--	--	--	--	--	--	57.7	63.5
Na	mg/L	--	--	--	--	--	--	--	--	208	261
NH_4[c]	µg/L	--	--	--	--	--	--	--	--	--	2480
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	--	--	60.3
SO_4[c]	mg/L	--	--	--	--	--	--	--	--	--	743
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	--	--	--	--	--	--	--	286	3050	737
Mn	µg/L	--	--	--	--	--	--	--	242	241	189
Mo	µg/L	3.0	10.0	7.0	0.4U	0.4U	6.3	8.3	4.5	5.4	2.9U
Se	µg/L	0.10U	0.10U	0.11	0.1U	0.2U	0.1U	0.1U	0.1U	0.3U	0.3U
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10U	0.10U	0.10U	0.1U	0.1U	0.1U
V	µg/L	1.0U	1.0U	1.0U	1U	0.4U	1.4	1.2U	1.4U	0.4U	0.3U
Radiological											
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10U	0.10U	0.10U	0.1U	0.1U	0.1U

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]*Uranium activity greater than gross alpha.*
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R5-M9[a]

Analyte	Unit	09/13/99	10/18/99	11/16/99	01/12/00	04/12/00	08/15/00	10/16/00	01/22/01	04/16/01	07/09/01
Field Measurements											
Alkalinity[c]	mg/L	35	28	--	45	50	75	66	60	123	70
Conductivity[d]	µmhos/cm	2880	2540	2620	2640	4350	3220	2150	2160	2180	2150
DO[d]	mg/L	0.50	1.11	0.78	0.31	0.2	0.48	1.1	0.3	1.025	0.204
ORP[d]	mV	-293	-349	-409	-345	-296	109	-69	-323	-211	-358
pH[d]	s.u.	9.44	9.59	9.89	9.2	8.81	9.2	9.42	8.52	7.75	7.87
Temperature[d]	C	16.1	15.3	15.1	10.9	8.8	15.6	16.2	8.8	11.1	13.5
Turbidity[d]	NTU	--	2.16	4.08	3.37	2.7	5.05	3.43	8.45	3.94	5.18
Common Ions[e]											
Ca	mg/L	--	--	--	--	159	66.9	60.7	87.0	111	117
Chloride[c]	mg/L	--	--	--	--	195	107	114	149	162J	151
Fluoride[c]	µg/L	--	--	--	--	--	--	--	787	1260	1160
Hardness	mg/L	--	--	--	--	759	409	503	500	563	619
K	mg/L	--	--	--	--	12.6	14.7	14.5	12.2	12.0	16.1
Mg	mg/L	--	--	--	--	88.0	58.8	85.4	68.6	69.5	79.3
Na	mg/L	--	--	--	--	272	308	289	257	228	265
NH_4[c]	µg/L	--	--	--	--	--	4920	3790	--	--	2210
NO_2 as N[c]	µg/L	--	--	--	--	--	27.0U	13.6U	--	--	--
NO_3 as N[c]	µg/L	--	--	--	--	--	31.0U	14.8U	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	32.4U	--	--	134	5.9	28.6
SO_4[c]	mg/L	--	--	--	--	1070	837	901	861	439	794
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	--	--	--	--	423	9.1U	11.6U	4640	15400	9030
Mn	µg/L	--	--	--	--	324	61.2	57.7	538	560	662
Mo	µg/L	4.3	0.8U	5.0	6.8	0.4U	4.3	5.1	1.1	0.30U	2.9U
Se	µg/L	0.10U	0.10U	0.10U	0.1U	0.2U	0.1U	0.1U	0.1U	0.43	0.3U
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.1U	0.10U	0.10U	0.1U	0.1U	0.1U
V	µg/L	1.0U	1.0U	1.0U	1U	0.41	1.2U	1.2U	1.4U	0.4U	0.3U
Radiological											
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.1U	0.10U	0.10U	0.1U	0.1U	0.1U

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UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R5-M10[a]

Analyte	Unit	09/13/99	10/18/99	11/16/99	01/12/00	04/12/00	08/15/00	10/18/00	01/22/01	04/16/01	07/09/01
Field Measurements											
Alkalinity[c]	mg/L	61	24	27	45	90	40	21	45	47	39
Conductivity[d]	µmhos/cm	2850	2620	2550	2590	4260	3440	2170	2200	2200	2120
DO[d]	mg/L	0.78	1.83	1.20	0.25	0.06	0.53	--	1.3	0.1	0.263
ORP[d]	mV	-204	-396	-345	-349	-315	229	-65	-355	-262	-395
pH[d]	s.u.	9.25	9.65	9.77	9.08	8.07	8.95	9.4	9.27	8.5	7.67
Temperature[d]	C	18.8	15.0	14.0	11.3	10.1	15.7	16.4	9.4	10.4	13.7
Turbidity[d]	NTU	--	7.29	3.86	2.84	5.32	4.49	1.15	10.4	4.71	8.63
Common Ions[e]											
Ca	mg/L	--	--	--	--	--	--	--	--	119	125
Chloride[c]	mg/L	--	--	--	--	--	--	--	--	--	159
Fluoride[c]	µg/L	--	--	--	--	--	--	--	--	--	1940
Hardness	mg/L	--	--	--	--	--	--	--	--	599	645
K	mg/L	--	--	--	--	--	--	--	--	11.2	14.0
Mg	mg/L	--	--	--	--	--	--	--	--	73.2	80.8
Na	mg/L	--	--	--	--	--	--	--	--	231	246
NH_4[c]	µg/L	--	--	--	--	--	--	--	--	--	3340
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	--	--	40.3
SO_4[c]	mg/L	--	--	--	--	--	--	--	--	--	822
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	--	--	--	--	--	--	--	1470	4750	4480
Mn	µg/L	--	--	--	--	--	--	--	243	385	346
Mo	µg/L	12.3	10.0	9.9	6.8	0.4U	6.1	7.4	1.7	0.3U	2.9U
Se	µg/L	0.10U	0.10U	0.10U	0.1U	0.2U	0.1U	0.33	0.1U	3.1	0.3U
U	µg/L	0.33	0.20U	0.20U	0.1U	0.10U	0.1U	0.10U	0.1U	0.1U	0.1U
V	µg/L	1.0U	1.0U	1.0U	1U	0.4U	1.2U	1.4	1.4U	0.4U	0.3U
Radiological											
U	µg/L	0.33	0.20U	0.20U	0.1U	0.10U	0.1U	0.10U	0.1U	0.1U	0.1U

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]*Uranium activity greater than gross alpha.*
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R6-M1[a]

Analyte	Unit	04/12/00	10/18/00	04/16/01	07/10/01
Field Measurements					
Alkalinity[c]	mg/L	48	150	56	76
Conductivity[d]	µmhos/cm	4380	--	2070	1868
DO[d]	mg/L	0.4	--	0.913	0.438
ORP[d]	*mV*	-29	14	45	114
pH[d]	s.u.	6.25	6.58	6.84	6.5
Temperature[d]	C	11.1	14.4	10.9	13
Turbidity[d]	NTU	4.65	--	10.4	2.06
Common Ions[e]					
Ca	mg/L	--	--	84.2	96.7
Chloride[c]	mg/L	--	--	--	89.8
Fluoride[c]	µg/L	--	--	--	185
Hardness	*mg/L*	--	--	412	434
K	mg/L	--	--	15.4	16.2
Mg	mg/L	--	--	48.9	46.8
Na	mg/L	--	--	232	225
NH_4[c]	µg/L	--	--	--	3420
NO_3+NO_2 as N[c]	µg/L	--	--	--	614
SO_4[c]	mg/L	--	--	--	699
Metals[e]					
As	µg/L	4.1	1.4	3.4	4
Fe	µg/L	--	--	1.0U	0.7U
Mn	µg/L	--	--	1170	1580
Mo	µg/L	53.5	8.6	13.8	25.3
Se	µg/L	2	1.6	1.3	0.93
U	µg/L	9.3	37.5	6.2	7.5
V	µg/L	126	44.8	81	95.9
Radiological					
U	µg/L	9.3	37.5	6.2	7.5

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]*Metals and cations are from filtered samples October 1997 through October 2002.*
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R6-M2[a]

Analyte	Unit	09/13/99	10/20/99	11/17/99	01/11/00	02/29/00	04/11/00	08/16/00	10/17/00	01/23/01	04/17/01	07/09/01	10/15/01	01/28/02	04/02/02	07/10/02	10/01/02
Field Measurements																	
Alkalinity[c]	mg/L	2	20	32	18	32	70	50	30	82	68	82	141	113	104	125	201
Conductivity[d]	µmhos/cm	2910	2320	2510	2690	2420	4240	2260	2250	2210	2040	1825	1562	1636	1492	1366	1569
DO[d]	mg/L	0.17	0.51	0.71	0.27	0.18	0.36	0.15	0.47	3.3	0	0.099	0.276	1100	500	0.79	3.7
ORP[d]	mV	-269	-223	-257	-198	-212	-283	-342	-214	-282	-211	-210	-169	-44	-151	-156	-41.1
pH[d]	s.u.	8.93	8.85	9.23	9.22	9.37	8.43	8.78	8.95	8.24	7.72	8.24	7.48	7.13	7.51	7.52	7.33
Temperature[d]	C	17.7	16.3	15.7	11.5	9.7	9.1	13.8	13.3	10.1	9.6	12.1	14.6	9.1	13	13.08	14.2
Turbidity[d]	NTU	--	29.7	30.4	2.24	150	7.7	13.6	6.53	6.63	62.8	4.67	5.49	23.4	11.8	2.33	6.18
Common Ions[e]																	
Ca	mg/L	206	119	125	135	117	117	111	106	102	86.6	77.3	69.9	87.1	76.6	71.0	94.1
Chloride[c]	mg/L	149J	121	130	160	137	141	86.9	90.3	140	102J	90.7	94.5	74.7	76.9	69.5	68.1
Fluoride[c]	µg/L	--	--	--	--	177	--	--	--	309	61.5	60.9J	52.4U	157J	127J	116J	143
Hardness	mg/L	827	501	513	620	572	589	467	505	545	432	413	377	446	429	393	466
K	mg/L	17.6	16.7	20.2	19.5	20.5	18.2	19.3	22.1	21.0	16.9	19.3	19.8	16.4	16.8	15.9	18.5
Mg	mg/L	75.9	49.4	48.7	68.7	68.0	72.0	46.1	58.3	70.4	52.5	53.4	49.2	55.4	57.7	52.4	56.1
Na	mg/L	338	320	344	363	328	288	301	311	270	211	224	177	150	146	136	143
NH_4[c]	µg/L	--	--	--	10200	--	24000J	7490	6960	--	--	4100	--	--	--	--	--
NO_2 as N[c]	µg/L	--	--	--	8.5U	--	46.0	13.5U	13.6U	--	--	--	--	--	--	--	--
NO_3 as N[c]	µg/L	9.0U	9.0U	36.4	18.1U	--	29.6U	15.5U	14.8U	--	--	--	--	--	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	12U	--	--	--	7.1U	9.9	23.8J	7.3U	354	145	4.9U	33.9
SO_4[c]	mg/L	1150	1010	1120	1150	1070	1100	980	998	866	474	663	616	588	569	493	507
Metals[e]																	
As	µg/L	2.7	2.7	2.6	3.7	1.7	0.41	2.3	2.5	1.8	0.68	0.89	0.71	0.88	0.98	1	3.4
Fe	µg/L	22.4	9.0U	9.0U	8.9U	8.9U	616	9.1U	11.6U	1560	3800	307	3800	5220	3360	943	6700
Mn	µg/L	1470	868	789	834	306	840	293	362	1000	823	576	428	532	538	583	872
Mo	µg/L	7.7J	10.0	5.6	0.4U	5.4	6.1J	4.8	13	2.5	0.3UJ	2.9U	1.9U	1.5U	1.8U	1.8U	1.7U
Se	µg/L	0.10U	0.10U	0.10U	0.1U	0.1U	0.2U	0.1U	0.1U	0.95	0.31	0.3U	0.3U	0.3U	0.2U	0.1U	0.1U
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.1U	0.1UJ	0.10U	0.10U	0.47	0.1U	0.1U	0.12	0.2	0.6	0.4	1.6
V	µg/L	3.0	1.5	1.2	1U	1U	0.4U	1.2U	1.2U	1.4U	0.4U	0.3U	0.3U	0.57	0.83	0.33	1.1
Radiological																	
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.1U	0.1UJ	0.10U	0.10U	0.47	0.1U	0.1U	0.12	0.2	0.6	0.4	1.6

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[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R6-M3[a]

Analyte	Unit	09/14/99	10/20/99	02/29/00	04/11/00	08/16/00	10/18/00	01/24/01	04/18/01	07/11/01	10/16/01	01/28/02	04/02/02	07/09/02	10/01/02
Field Measurements															
Alkalinity[c]	mg/L	--	--	--	171	--	--	532	--	--	--	448	429	232	--
Conductivity[d]	µmhos/cm	--	2740	2500	2700	2550	2590	2510	2460	2440	2400	2077	2010	1994	2113
DO[d]	mg/L	--	--	--	--	0.55	--	--	--	--	--	--	3.7	--	--
ORP[d]	mV	--	-102	-123	65	-142	-93	66	-13	-22	-44	-25	-51	-50	-52.7
pH[d]	s.u.	--	7.00	6.47	6.9	6.76	7.09	6.66	6.9	6.73	7.2	6.46	6.86	6.73	6.72
Temperature[d]	C	--	15.1	9.2	8.9	16.1	16.3	8.7	13.7	13.4	15.9	9.23	13.7	15.04	16.5
Turbidity[d]	NTU	--	371	150	--	283	>1000	178	839	--	576	274	488	246	--
Common Ions[e]															
Ca	mg/L	324	308	295	268	224	--	252	243	270	199	213	205	150	221
Chloride[c]	mg/L	--	--	--	176	151	--	154	--	139	130	127	124	83.9	110
Fluoride[c]	µg/L	--	--	--	--	--	--	344	--	259	361	307	192	273J	215
Hardness	mg/L	1110	1050	1000	925	773	--	860	831	918	697	727	737	559	752
K	mg/L	21.2	17.1	15.4	13.6	12.8	--	12.8	12.1	13.4	13.7	11.8	11.9	11.7	12.6
Mg	mg/L	72.8	68.8	65.1	62.2	52.0	--	56.1	54.4	59.2	48.6	47.4	54.7	44.8	48.6
Na	mg/L	253	228	229	218	209	--	206	203	211	193	188	167	138	204
NH_4[c]	µg/L	--	--	--	657J	824	--	--	--	210	--	--	--	--	--
NO_2 as N[c]	µg/L	--	--	--	37.7	27.0U	--	--	--	--	--	--	--	--	--
NO_3 as N[c]	µg/L	--	--	--	229	31.0U	--	--	--	--	--	--	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	214	--	--	--	1010	--	1310	701	62.9	171	4.9U	321
SO_4[c]	mg/L	--	--	--	814	717	--	706	--	715	721	679	664	513	667
Metals[e]															
As	µg/L	1.0	0.40U	0.66	1.2	1.1	1	0.68	0.66	0.6	0.91	0.85	0.95	0.88	1.2
Fe	µg/L	44.8	9.0U	8.9U	261	9.1U	--	282	286	325	57.3	437	1430	210	990
Mn	µg/L	3420	5590	5580	4300	2740	--	3310	3040	3130	2220	3580	2820	3260	3330
Mo	µg/L	121J	81.4	50.5	34.2J	48.5	38.4	30.8	30.1	29.6	32.2	27.2	17.5	22.6	37.8
Se	µg/L	1.1	0.77	2.4	1.7	0.79	0.9	0.3	0.3U	0.3U	0.3U	0.3U	0.2U	0.26	0.21
U	µg/L	368	269	250	169J	158	119	111	129	94.4	69	70.3	41.3	36.3	76.4
V	µg/L	25.1	27.8	45.5	33.7	52.2	54.2	61.4	59.6	59.6	105	62	28.9	39.7	63.5
Radiological															
U	µg/L	368	269	250	169J	158	119	111	129	94.4	69	70.3	41.3	36.3	76.4

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[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R6-M4[a]

Analyte	Unit	09/14/99	10/19/99	11/16/99	01/11/00	03/01/00	04/11/00	08/16/00	10/16/00	01/23/01	04/17/01	07/10/01	10/11/01	10/15/01	01/28/02	04/02/02	07/09/02	09/30/02
Field Measurements																		
Alkalinity[c]	mg/L	52	38	75	54	47	141	--	51	--	98	--	99	--	133	122	141	171
Conductivity[d]	µmhos/cm	2820	2540	2620	2540	2540	3090	--	2210	2090	2150	2020	1632	--	1618	1661	1416	1488
DO[d]	mg/L	0.92	1.83	3.00	0.58	1.5	1.45	--	2.6	--	8	0.395	0.87	--	573	908	--	10.2
ORP[d]	mV	-134	-230	-178	-302	-103	152	--	86	-35	-78	-135	7	--	-122	-94	-103	-18.6
pH[d]	s.u.	6.85	7.92	7.63	8.74	8.11	7.29	--	6.57	7.56	7.54	7.19	7.45	--	7.29	7.36	7.11	6.98
Temperature[d]	C	15.5	14.7	16.2	11.6	7.8	8.4	--	15.5	9.4	12	12.8	14.7	--	8.9	9.6	15.95	17.8
Turbidity[d]	NTU	--	49.8	20.0	20.4	--	97.5	--	28.6	22.1	19.4	94.5	314	--	211	86.6	97.2	318
Common Ions[e]																		
Ca	mg/L	217	146	154	139	146	234	105	116	96.9	117	117	78.1	--	94.5	102	96.8	96.8
Chloride[c]	mg/L	160J	143	152	166	159	198	88.3	94.6	128	119J	140	106	110	88.7	92.8	83.9	78.7
Fluoride[c]	µg/L	--	--	--	--	143	--	--	--	120	121	128	26.2U	172	124J	66	220J	165
Hardness	mg/L	866	623	651	665	685	955	456	498	486	548	565	440	--	509	552	481	486
K	mg/L	14.8	16.0	17.9	18.8	16.9	15.7	14.6	16.3	17.1	15.3	16.0	15.1	--	13.6	12.8	12.1	13.7
Mg	mg/L	78.7	62.8	64.7	77.3	77.7	90.1	47.0	50.7	59.2	62.1	66.2	59.4	--	66.2	72.3	58.1	59.3
Na	mg/L	325	317	328	350	310	288	277	296	245	218	251	181	--	152	147	126	133
NH_4[c]	µg/L	--	--	--	8850	--	8700	7830	3530	--	--	3560	--	--	--	--	--	--
NO_2 as N[c]	µg/L	--	--	--	8.5U	--	1080	156	312	--	--	--	--	--	--	--	--	--
NO_3 as N[c]	µg/L	93.5	9.0U	52.2	18.1U	--	6260	1090	4450	--	--	--	--	--	--	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	12U	--	--	--	2410	201	217	8.5	86.4	158	291	4.9U	35.7
SO_4[c]	mg/L	1130	1110	1140	1090	1110	1230	853	876	825	544	757	649	648	627	601	539	525
Metals[e]																		
As	µg/L	7.1	9.4	13.2	23.4	22.8	0.73	0.62	0.83	11.7	0.94	0.5U	2	--	2.4	2.3	0.82	0.4
Fe	µg/L	279	47.7	43.4	8.9U	8.9U	7.4U	304	116	354	53.2	57.4	1970J	--	5840	7110	1280	723
Mn	µg/L	3330	791	697	615J	881	3400	1400	1240	990	1410	921	639	--	1140	1040	1280	748
Mo	µg/L	30.7	21.0	31.3	16.6J	14.3	22.1J	17.4	20.5	5.4	12.8J	11.3	9.5	--	4.6	1.8U	7.5	7
Se	µg/L	0.10U	0.10U	0.13	0.1U	0.1U	15.1	0.84	0.37	0.23	0.3U	0.3U	0.3U	--	0.3U	0.2U	0.14	0.27
U	µg/L	2.4	18.2	21.4	20.3	37.8	50	6	4.6	13	14.4	3.7	2.5	--	3.2	4.4	4.8	9
V	µg/L	14.7	127	43.4	84.8	95.5	3.9	5.1	2.7	10.6	3.7	2.5	2.8	--	2	1.5	0.3U	0.3U
Radiological																		
U	µg/L	2.4	18.2	21.4	20.3	37.8	50	6	4.6	13	14.4	3.7	2.5	--	3.2	4.4	4.8	9

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[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R6-M5[a]

Analyte	Unit	09/13/99	10/18/99	11/16/99	01/12/00	03/01/00	04/12/00	08/15/00	10/16/00	01/22/01	04/16/01	07/09/01	10/11/01	10/15/01	01/31/02	04/02/02	07/09/02	09/30/02
Field Measurements																		
Alkalinity[c]	mg/L	57	48	54	105	80	100	73	96	68	113	97	105	--	93	136	98	121
Conductivity[d]	µmhos/cm	2830	2480	2540	2660	2560	4350	3340	2120	1966	2130	2110	1684	--	1451	1715	1291	1361
DO[d]	mg/L	0.75	0.34	1.63	0.35	0.4	0.2	0.47	0.4	0	1.1	0.326	0.2	--	0.34	581	1.75	4.9
ORP[d]	mV	-260	-260	-178	-257	-135	-66	-42	-76	-277	-155	-242	-224	--	-137	-18	-162	-83.3
pH[d]	s.u.	8.20	8.64	8.36	7.94	8.28	8.24	8.31	7.26	7.41	7.51	7.4	7.99	--	7.5	7.89	7.25	7.46
Temperature[d]	C	15.9	15.5	15.2	11.3	7.9	8.7	16.5	16.4	9.1	11	13.5	14.7	--	9.76	10	16.1	16.85
Turbidity[d]	NTU	--	1.10	6.86	1.45	--	3.6	0.62	4.56	4.58	3.76	8.69	22.5	--	14.2	27.1	10.9	7.13
Common Ions[e]																		
Ca	mg/L	--	--	--	--	166	170	92.4	99.5	80.8	102	133	68.1	--	83.2	102	59.0	52.0
Chloride[c]	mg/L	--	--	--	--	169	190	92.7	99.0	137	142J	145	112	110	89.9	91.2	84.9	80.7
Fluoride[c]	µg/L	--	--	--	--	69	--	--	--	158	49.7	61.6	118	75.3	67	71	340J	123
Hardness	mg/L	--	--	--	--	754	765	424	448	449	515	634	419	--	477	540	390	383
K	mg/L	--	--	--	--	16.0	13.8	15.1	17.3	18.0	15.1	15.8	14.4	--	12.9	12.0	11.6	12.6
Mg	mg/L	--	--	--	--	82.4	82.8	46.9	48.5	60.0	63.1	73.4	60.4	--	65.3	69.4	58.9	61.4
Na	mg/L	--	--	--	--	305	276	290	292	256	215	263	176	--	145	140	125	132
NH_4[c]	µg/L	--	--	--	--	--	--	8610	4840	--	--	3670	--	--	--	--	--	--
NO_2 as N[c]	µg/L	--	--	--	--	--	--	27.0U	501	--	--	--	--	--	--	--	--	--
NO_3 as N[c]	µg/L	--	--	--	--	--	--	47.4	2760	--	--	--	--	--	--	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	12U	32.4U	--	--	225	65	30.9	7.3U	7.3U	7.3U	475	4.9U	48.8
SO_4[c]	mg/L	--	--	--	--	1110	1110	845	845	813	427	796	624	624	607	564	478	475
Metals[e]																		
As	µg/L	4.7	4.9	5.7	8.5	4	2.4	5.4	2	1.7	1.8	2.8	1.8	--	1.4	1.4	1.3	1
Fe	µg/L	9U	9.0U	9.0U	--	8.9U	353	280	91.6	58.2	1060	1500	1020	--	3730	5170	2680	3250
Mn	µg/L	6090	2710	3200	--	4270	3590	1600	2620	1610	1940	2150	880	--	1130	1160	721	614
Mo	µg/L	35.3	20.5	21.1	53.5	47	33.4	28.5	27.4	20.7	10	14.2	5.7	--	1.5U	1.8U	2.4	1.7U
Se	µg/L	0.10U	0.10U	0.18	0.1	0.1U	0.92	0.1U	0.25	0.1U	0.84	0.3U	0.3U	--	0.3U	0.2U	0.1U	0.1U
U	µg/L	8.4	3.4	6.5	14.7	13.1	9.9	5.3	4.6	3.1	4.1	3.5	2.3	--	0.93	3.6	0.27	0.48
V	µg/L	2.7	4.7	12.3	8.4	23.5	2.3	1.7	13	13.6	1.7	1.2	0.57	--	0.4U	0.3U	0.3U	0.3U
Radiological																		
U	µg/L	8.4	3.4	6.5	14.7	13.1	9.9	5.3	4.6	3.1	4.1	3.5	2.3	--	0.93	3.6	0.27	0.48

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[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R6-M6[a]

Analyte	Unit	10/18/00	01/29/01	04/17/01	07/09/01
Field Measurements					
Alkalinity[c]	mg/L	75	254	75	83
Conductivity[d]	µmhos/cm	2110	2370	2310	2180
DO[d]	mg/L	0.13	--	2.4	0.528
ORP[d]	mV	-113	-46	-134	-60
pH[d]	s.u.	7.08	7.04	6.98	5.96
Temperature[d]	C	16.5	6.2	10.4	16.7
Turbidity[d]	NTU	20.3	138	5.51	4.4
Common Ions[e]					
Ca	mg/L	--	--	112	146
Chloride[c]	mg/L	--	--	--	27.8
Fluoride[c]	µg/L	--	--	--	122
Hardness	mg/L	--	--	567	685
K	mg/L	--	--	11.0	12.8
Mg	mg/L	--	--	69.7	77.9
Na	mg/L	--	--	228	244
NH_4[c]	µg/L	--	--	--	948
NO_3+NO_2 as N[c]	µg/L	--	--	--	275
SO_4[c]	mg/L	--	--	--	823
Metals[e]					
As	µg/L	13.2	2.7	12	7.3
Fe	µg/L	--	1080	1140	1120
Mn	µg/L	--	2880	2360	2700
Mo	µg/L	14.3	14.4	5.8J	9.1
Se	µg/L	0.35	10	0.3U	0.3U
U	µg/L	9.7	142	5.3	11.3
V	µg/L	1.2U	5.6	3.6	6.7
Radiological					
U	µg/L	9.7	142	5.3	11.3

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[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]*Gross alpha minus uranium activity. Result rounded as appropriate.*
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R7-M1[a]

Analyte	Unit	09/14/99	02/29/00	04/11/00	01/29/01	04/17/01	07/10/01
Field Measurements							
Alkalinity[c]	mg/L	--	48	60	188	73	18.5
Conductivity[d]	µmhos/cm	--	2430	4440	2730	2100	2010
DO[d]	mg/L	--	--	0.9	--	1.8	0.697
ORP[d]	mV	--	-54	24	158	95	-67
pH[d]	s.u.	--	6.05	6.93	6.37	6.61	7
Temperature[d]	C	--	8.7	8.5	8.3	10.9	13.9
Turbidity[d]	NTU	--	172	55	99.1	223	83
Common Ions[e]							
Ca	mg/L	284	176	155	178	86.9	110
Chloride[c]	mg/L	--	150	140	--	107J	104
Fluoride[c]	µg/L	--	311	--	--	137	365
Hardness	mg/L	1000	705	686	697	432	495
K	mg/L	24.5	17.5	19.4	19.8	16.1	17.6
Mg	mg/L	71.4	64.6	72.5	61.4	52.3	53.6
Na	mg/L	340	315	306	304	217	221
NH_4[c]	µg/L	--	--	21400J	--	--	3900
NO_2 as N[c]	µg/L	--	--	336	--	--	--
NO_3 as N[c]	µg/L	--	--	5530	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	2810	--	--	263	127
SO_4[c]	mg/L	--	1090	1140	--	472	703
Metals[e]							
As	µg/L	2.0	1.6	6	2.1	4.5	13.5
Fe	µg/L	40.2	8.9U	7.4U	11.0U	155	230
Mn	µg/L	4160	2060	852	497	1940	1630
Mo	µg/L	141J	51.6	38.5J	37.8	13.7J	22.6
Se	µg/L	2.0	1.3	3.1	0.84	0.3U	0.3U
U	µg/L	495	45.3	40.6J	92.7	16.8	30.7
V	µg/L	90.7	93	103	103	22.9	22
Radiological							
U	µg/L	495	45.3	40.6J	92.7	16.8	30.7

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R7-M2[a]

Analyte	Unit	03/01/00	04/11/00	01/24/01	04/18/01	07/10/01
Field Measurements						
Alkalinity[c]	mg/L	--	66	311	--	93
Conductivity[d]	µmhos/cm	--	1539	2890	2750	2360
DO[d]	mg/L	--	--	--	--	1.1
ORP[d]	mV	--	73	152	75	14
pH[d]	s.u.	--	6.92	6.57	6.53	7.18
Temperature[d]	C	--	11	7.4	11.1	14.7
Turbidity[d]	NTU	--	25	80.5	--	24
Common Ions[e]						
Ca	mg/L	325	220	274	239	171
Chloride[c]	mg/L	--	182	--	--	122
Fluoride[c]	µg/L	--	--	--	--	241
Hardness	mg/L	1140	823	970	850	646
K	mg/L	16.1	14.7	14.6	12.4	15.2
Mg	mg/L	79.7	66.5	69.4	61.5	53.1
Na	mg/L	282	285	265	240	217
NH_4[c]	µg/L	--	6000	--	--	407
NO_2 as N[c]	µg/L	--	131	--	--	--
NO_3 as N[c]	µg/L	--	7980	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	5190
SO_4[c]	mg/L	--	1240	--	--	762
Metals[e]						
As	µg/L	0.4U	0.43	1.1	2.1	3.7
Fe	µg/L	8.9U	7.4U	41	1.0U	0.7U
Mn	µg/L	1050	168	190	111	186
Mo	µg/L	94.9	48.7J	48.1	41.2	19.5
Se	µg/L	176	14	10.6	15.5	2.3
U	µg/L	376	57.9J	279	210	21.5
V	µg/L	16.7	33.5	60.2	89.3	165
Radiological						
U	µg/L	376	57.9J	279	210	21.5

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[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R8-M1[a]

Analyte	Unit	04/11/00
Field Measurements		
Alkalinity[c]	mg/L	71
Conductivity[d]	µmhos/cm	4440
ORP[d]	mV	17
pH[d]	s.u.	6.72
Temperature[d]	C	9.7
Turbidity[d]	NTU	2.05
Common Ions[e]		
Ca	mg/L	178
Chloride[c]	mg/L	164
Hardness	mg/L	728
K	mg/L	14.8
Mg	mg/L	68.9
Na	mg/L	274
NH_4[c]	µg/L	9380
NO_2 as N[c]	µg/L	649
NO_3 as N[c]	µg/L	8760
SO_4[c]	mg/L	1150
Metals[e]		
As	µg/L	3.9
Fe	µg/L	7.4U
Mn	µg/L	1200
Mo	µg/L	66J
Se	µg/L	5.3
U	µg/L	48.1J
V	µg/L	81.3
Radiological		
U	µg/L	48.1J

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U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R9-M1[a]

Analyte	Unit	09/14/99	11/17/99	01/12/00	02/29/00	04/11/00	10/16/00	04/17/01	07/10/01	10/11/01	10/15/01	01/29/02	04/02/02	07/10/02	10/01/02
Field Measurements															
Alkalinity[c]	mg/L	--	--	99	51	90	103	74	99	120	--	125	138	167	160
Conductivity[d]	µmhos/cm	--	2270	2550	2590	4570	2210	2130	1980	1694	--	1518	1593	1452	1442
DO[d]	mg/L	--	--	--	0.35	0.58	--	2.1	0.568	0.653	--	2.6	1.7	0.94	0.5
ORP[d]	mV	--	63	110	36	-25	201	164	62	-108	--	82	-61	-8.2	-15.5
pH[d]	s.u.	--	6.22	6.57	6.5	6.7	6.15	6.37	6.97	7.05	--	6.36	7.03	7.01	6.88
Temperature[d]	C	--	14.0	9.3	8.1	9.5	14.3	12	12.2	13.7	--	8.98	13	13.95	15
Turbidity[d]	NTU	--	--	--	4.53	1.56	39	6.94	12.7	24.7	--	93	35.1	1.13	2.89
Common Ions[e]															
Ca	mg/L	282	--	185	178	188	132	110	132	94.0	--	104	125	116	99.9
Chloride[c]	mg/L	--	--	168	164	176	96.8	118J	123	98.3	100	80.8	83.6	76.9	74.9
Fluoride[c]	µg/L	--	--	--	361	--	--	154	359	301	246	26.2UJ	150J	117J	159
Hardness	mg/L	988	--	745	748	783	544	518	566	445	--	485	574	511	468
K	mg/L	17.1	--	15.4	13.2	13.9	14.5	15.9	15.7	16.0	--	13.8	14.0	13.0	14.5
Mg	mg/L	69.0	--	68.7	73.7	76.1	52.0	59.1	57.3	51.1	--	54.6	63.7	53.7	53.1
Na	mg/L	313	--	342	299	273	280	221	218	173	--	136	139	123	131
NH_4[c]	µg/L	--	--	2540	--	7950	4790	--	2840	--	--	--	--	--	--
NO_2 as N[c]	µg/L	--	--	--	--	789	13.6U	--	--	--	--	--	--	--	--
NO_3 as N[c]	µg/L	--	--	1030	--	6580	17500	--	--	--	--	--	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	301	--	--	1830	200	463	373	245	388	107	66.1
SO_4[c]	mg/L	--	--	1060	1100	1180	872	538	744	616	588	624	602	532	493
Metals[e]															
As	µg/L	0.69	--	2.8	2.8	3.4	3.2	2.8	3.5	3.9	--	3.4	2.8	3.2	3
Fe	µg/L	9.0U	--	8.9U	8.9U	7.4U	11.6U	21.7	0.7U	17.6	--	0.8U	1U	5.8	0.8U
Mn	µg/L	1660	--	932J	1590	1890	1040	807	1540	1230	--	1.3	13.2	102	11
Mo	µg/L	63.6J	--	28.2	46.9	62.9J	13.4	10J	26.1	15.5	--	7.3	7.4	12.1	6.9
Se	µg/L	1.6	--	0.49	0.39	4.8	0.1U	0.51	0.67	0.41	--	0.96	1.1	0.63	0.44
U	µg/L	76.9	--	12	23.2	80.7J	4.4	4.7	17.8	28	--	33.4	41.6	33.6	26.9
V	µg/L	28.3	--	97.4	108	74.5	122	75.9	89.5	91.1	--	87.9	72.3	84.1	73.2
Radiological															
U	µg/L	76.9	--	12	23.2	80.7J	4.4	4.7	17.8	28	--	33.4	41.6	33.6	26.9

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R10-M1[a]

Analyte	Unit	09/14/99	10/21/99	11/17/99	01/12/00	02/29/00	04/11/00	08/15/00	10/16/00	01/23/01	04/17/01	07/10/01	10/11/01	10/15/01	01/29/02	04/02/02	07/10/02	10/01/02
Field Measurements																		
Alkalinity[c]	mg/L	--	69	89	52	78	110	76	87	71	82	72	107	--	91	114	137	147
Conductivity[d]	µmhos/cm	--	2490	2510	2440	2500	4490	2160	2140	2130	2220	2150	1714	--	1450	1660	1424	1436
DO[d]	mg/L	--	--	1.05	--	0.28	0.23	0.38	1.4	2.3	2.6	0.7	0.274	--	1.1	0.8	1.15	2.5
ORP[d]	mV	--	163	74	51	-111	-60	-58	189	146	173	47	-86	--	-70	-49	-97	-14.4
pH[d]	s.u.	--	6.81	6.54	6.07	6.67	6.8	6.61	6.58	6.21	6.45	6.71	6.9	--	6.66	6.94	7.05	6.85
Temperature[d]	C	--	13.7	14.8	10.3	9.5	9	18.5	14.5	8.8	11.3	12	13.5	--	9.77	12.2	13.28	14.8
Turbidity[d]	NTU	--	>1000	27.8	>1000	6.94	1.15	>1000	57	5.54	32.5	1.94	74.4	--	7	8.33	0.97	2.58
Common Ions[e]																		
Ca	mg/L	260	212	187	191	199	197	110	120	111	114	143	93.8	--	95.7	104	92.7	93.4
Chloride[c]	mg/L	--	142	139	166	178	199	101	100	136	128J	140	108	109	85.9	92.2	80.3	76.2
Fluoride[c]	µg/L	--	--	--	--	401	--	--	--	208	181	285	267	411	185J	182J	202J	25.1U
Hardness	mg/L	947	770	706	779	820	859	479	514	499	541	631	429	--	462	522	471	456
K	mg/L	13.7	12.2	13.9	14.7	12.1	13.5	12.1	13.5	12.8	12.3	14.7	12.6	--	12.8	11.8	13.1	13.5
Mg	mg/L	72.4	58.4	58.0	73.4	78.5	89.1	49.6	52.1	53.9	62.2	66.5	47.2	--	54.2	63.8	58.2	54.1
Na	mg/L	309	298	275	364	284	297	284	294	266	228	229	183	--	152	148	136	133
NH_4[c]	µg/L	--	--	--	3240	--	6000	8080	6630	--	--	3150	--	--	--	--	--	--
NO_2 as N[c]	µg/L	--	--	--	--	--	27.2U	27.0U	13.6U	--	--	--	--	--	--	--	--	--
NO_3 as N[c]	µg/L	--	951	1390	960	--	695	950	17500	--	--	--	--	--	--	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	91.8	--	--	--	2240	1470	1100	606	483	346	508	140	150
SO_4[c]	mg/L	--	1090	1060	1070	1090	1140	864	843	837	577	799	635	648	608	597	520	500
Metals[e]																		
As	µg/L	3.4	4.1	7.0	3.7	2.5	3.8	4.7	3.1	3.4	2.8	3.9	4.2	--	3.1	3.2	3.8	4.2
Fe	µg/L	9.0U	9.0U	975	8.9U	8.9U	7.4U	9.1U	11.6U	28	1.0U	5.1	14	--	24.8	1U	7	21
Mn	µg/L	797	899	905	945J	1070	1490	1050	1310	1110	812	659	481	--	42.6	23.2	6	6.2
Mo	µg/L	52.0J	54.8	41.8	29.6	59.4	44.6J	26	17	12.7	11.5J	17.2	14.9	--	9	14.9	7.3	6.3
Se	µg/L	0.70	0.16	1.1	0.37	0.15	0.56	0.2	0.1U	0.14	0.47	0.3U	0.3U	--	0.32	0.77	0.38	0.22
U	µg/L	22.2	5.5	26.5	5.4	59.8	69J	8.8	4.1	1.9	6.4	7.6	15.1	--	12.2	34.9	35.1	30.5
V	µg/L	154	178	204	163	123	116	142	168	121	101	125	145	--	111	96.3	123	131
Radiological																		
U	µg/L	22.2	5.5	26.5	5.4	59.8	69J	8.8	4.1	1.9	6.4	7.6	15.1	--	12.2	34.9	35.1	30.5

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- R11-M1[a]

Analyte	Unit	09/14/99	11/17/99	01/12/00	02/29/00	04/11/00	08/16/00	10/16/00	01/29/01	04/17/01	07/10/01	10/11/01	10/15/01	01/29/02	04/02/02	07/10/02	10/01/02
Field Measurements																	
Alkalinity[c]	mg/L	--	--	>70	153	100	120	130	59	84	92	100	--	--	124	122	130
Conductivity[d]	µmhos/cm	--	2140	2550	1727	4070	2130	2080	2180	2210	2230	1739	--	1620	1597	1446	1420
DO[d]	mg/L	--	--	--	1.6	0.7	--	--	--	--	--	--	--	--	2	--	6.8
ORP[d]	mV	--	8	-30	34	57	-139	178	155	217	-17	-52	--	95	-28	-38	-23.1
pH[d]	s.u.	--	6.77	7.17	6.65	6.65	6.47	6.57	6.2	6.63	6.82	6.9	--	7	6.94	7.04	7
Temperature[d]	C	--	14.3	11	6	7.9	19.7	15.9	6.6	10.4	15	13.9	--	6.2	12.5	15.27	15
Turbidity[d]	NTU	--	--	--	11.9	4.56	>1000	311	184	>1000	>1000	200	--	312	441	6.32	125
Common Ions[e]																	
Ca	mg/L	345	--	207	228	211	130	123	113	117	149	91.9	--	84.1	108	90.3	83.0
Chloride[c]	mg/L	--	--	186	53.8	169	122	102	--	131J	156	113	113	83.1	88.8	85.9	--
Fluoride[c]	µg/L	--	--	--	361	--	--	--	--	258	218	358	263	234J	25.1UJ	273J	--
Hardness	mg/L	1210	--	829	809	815	528	501	487	546	677	416	--	415	541	462	416
K	mg/L	14.9	--	13.9	7.30	9.16	10.5	11.9	11.7	11.8	14.9	11.1	--	10.2	11.1	12.3	11.7
Mg	mg/L	84.5	--	75.7	58.1	69.9	49.4	47.0	49.8	61.7	74.0	45.2	--	49.9	66.0	57.4	50.7
Na	mg/L	312	--	330	108	215	259	284	256	234	241	188	--	137	146	144	135
NH_4[c]	µg/L	--	--	3020	--	2410	5360	3760	--	--	3900	--	--	--	--	--	--
NO_2 as N[c]	µg/L	--	--	--	--	27.2U	53.1	34.3	--	--	--	--	--	--	--	--	--
NO_3 as N[c]	µg/L	--	--	1050	--	1060	452	6070	--	--	--	--	--	--	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	772	--	--	--	--	1020	914J	781	785	706	616	179	--
SO_4[c]	mg/L	--	--	1100	713	1020	831	829	--	570	828	621	630	570	581	511	--
Metals[e]																	
As	µg/L	0.40U	--	3.5	1.7	2.2	2.2	1.3	1	0.97	1.5	1.5	--	1.2	1.8	1.9	2.2
Fe	µg/L	9.0U	--	2040	8.9U	7.4U	9.1U	11.6U	87.5	17.4	200	25.8	--	80	1U	14.5	51.6
Mn	µg/L	3170	--	1010J	17.7	587	1250	1050	1220	1040	1080	662	--	387	211	100	89.1
Mo	µg/L	98.8J	--	32.6	42.7	51.5J	34.1	26.4	16.7	15.9J	17.8	18.3	--	11.7	14.7	10.6	9.4
Se	µg/L	1.5	--	0.1U	3.6	5.1	0.56	0.10U	0.13	0.3U	0.32	0.3U	--	0.3U	0.55	0.31	0.25
U	µg/L	152	--	22.8	144	67.6J	12.9	6.8	2.3	9.4	10	11.5	--	18.9	48.8	25.8	24.5
V	µg/L	30.2	--	114	132	112	118	117	80.9	78	93.9	101	--	76.6	86.7	91.3	104
Radiological																	
U	µg/L	152	--	22.8	144	67.6J	12.9	6.8	2.3	9.4	10	11.5	--	18.9	48.8	25.8	24.5

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[d]Sample was unfiltered.
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[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

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Alluvial Ground Water -- Downgradient -- T1-D[a]

Analyte	Unit	09/14/99	10/19/99	11/17/99	01/11/00	04/11/00	08/16/00	10/17/00	01/23/01	04/17/01	07/10/01
Field Measurements											
Alkalinity[c]	mg/L	295	235	180	321	243	250	293	267	265	291
Conductivity[d]	µmhos/cm	3240	4510	3002	3200	3100	3830	2570	2600	2520	2420
DO[d]	mg/L	0.30	0.27	0.64	0.63	0.45	1.16	0.658	0.3	0.623	0.397
ORP[d]	mV	-34	133	-4	206	100	172	188	24	-28	-1
pH[d]	s.u.	6.48	6.44	6.56	6.36	6.45	6.7	6.54	6.72	6.78	6.25
Temperature[d]	C	15.0	15.2	14.5	9.8	8.4	14.1	13.7	9.4	9.4	12.3
Turbidity[d]	NTU	--	22.2	23.8	12.2	4.71	28.1	18.1	5.52	1.28	2.88
Common Ions[e]											
Ca	mg/L	359	271	276	322	280	224	253	261	255	266
Chloride[c]	mg/L	141J	133	144	191	160	91.7	106	144	124J	131
Fluoride[c]	µg/L	--	--	--	--	--	--	--	356	298	351
Hardness	mg/L	1270	959	987	1150	1000	790	882	921	899	941
K	mg/L	18.9	19.0	20.8	19.9	16.6	17.0	18.3	18.1	16.1	18.6
Mg	mg/L	91.2	68.5	72.3	84.3	73.0	56.0	60.7	65.3	63.6	67.3
Na	mg/L	339	334	349	344	275	282	282	258	228	247
NH_4[c]	µg/L	--	--	--	505	358	270	232	--	--	131
NO_2 as N[c]	µg/L	--	--	--	8.5U	27.2U	27.0U	13.6U	--	--	--
NO_3 as N[c]	µg/L	25100	26000	27100	20600	34200	14300	12900	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	14900	14500	8280
SO_4[c]	mg/L	1230	1220	1330	1340	1170	960	961	959	704	849
Metals[e]											
As	µg/L	9.9	9.6	9.0	9.7	6.9	8.6	9.4	9.4	8.4	9.2
Fe	µg/L	9.0U	9.0U	9.0U	8.9U	7.4U	9.1U	11.6U	11.0U	10.6	0.7U
Mn	µg/L	289	291	315	426	384	203	266	240	167	180
Mo	µg/L	63.4	65.7	67.8	60.4	51.1J	57.4	62.4	52.4	45	51.5
Se	µg/L	17.6	14.4	8.1	41.1	54.6	12.5	17.9	79.6	126	116
U	µg/L	468	263	407	739	466	266	312	358	361	376
V	µg/L	363	338	343	341	236	318	367	310	278	328
Radiological											
U	µg/L	468	263	407	739	466	266	312	358	361	376

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[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- T1-S[a]

Analyte	Unit	09/14/99	10/19/99	11/17/99	01/11/00	04/11/00	08/16/00	10/17/00	01/23/01	04/17/01	07/10/01
Field Measurements											
Alkalinity[c]	mg/L	279	226	169	324	245	256	292	288	260	309
Conductivity[d]	µmhos/cm	3190	2940	3130	3330	3150	3830	2680	2680	2560	2470
DO[d]	mg/L	0.68	0.38	0.54	0.77	0.62	0.83	1.1	0.3	0.458	0.383
ORP[d]	mV	-29	170	-14	196	98	157	2.03	6	-37	43
pH[d]	s.u.	6.48	6.42	6.58	6.37	6.54	6.87	6.59	6.78	6.79	6.28
Temperature[d]	C	16.4	15.5	14.4	7.9	8.1	14.3	12.3	9	9	13.1
Turbidity[d]	NTU	--	21.8	15.8	10.2	4.67	0.56	0.46	24.1	2.36	4.1
Common Ions[e]											
Ca	mg/L	359	268	284	335	269	224	269	252	263	277
Chloride[c]	mg/L	143	130	143	187	161	91.9	115	152	125J	135
Fluoride[c]	µg/L	--	--	--	--	--	--	--	339	303	374
Hardness	mg/L	1270	940	1010	1200	962	788	934	892	924	974
K	mg/L	19.1	18.1	20.5	20.7	16.4	16.9	19.2	17.7	15.7	18.1
Mg	mg/L	90.7	65.7	73.5	88.1	70.4	55.5	63.7	63.7	65.0	68.5
Na	mg/L	337	318	351	351	267	277	283	248	227	246
NH_4[c]	µg/L	--	--	--	373	361	227	227	--	--	102
NO_2 as N[c]	µg/L	--	--	--	8.5U	27.2U	27.0U	13.6U	--	--	--
NO_3 as N[c]	µg/L	25500	26000	24800	19900	35300	13700	12500	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	14800	14500	8090
SO_4[c]	mg/L	1240	1210	1330	1310	1190	963	967	975	710	858
Metals[e]											
As	µg/L	9.8	10.0	9.1	9.7	7.5	8.8	9.7	9.2	8.6	9.5
Fe	µg/L	9.0U	144	9.0U	8.9U	7.4U	9.1U	11.6U	11U	1.0U	14.9
Mn	µg/L	53.0	104	110	259	255	79.2	112	95.8	71.6	89.8
Mo	µg/L	52.0	61.9	62.0	56.1	50.1J	53.6	59.9	48.7	42	47
Se	µg/L	17.0	12.0	7.9	35.6	54.3	13.5	25.5	89	124	118
U	µg/L	431	256	378	753	451	245	324	364	366	367
V	µg/L	370	337	347	344	217	325	386	295	277	329
Radiological											
U	µg/L	431	256	378	753	451	245	324	364	366	367

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[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- T2-D[a]

Analyte	Unit	09/14/99	10/19/99	11/16/99	01/11/00	04/11/00	08/16/00	10/17/00	01/23/01	04/17/01	07/10/01
Field Measurements											
Alkalinity[c]	mg/L	277	268	297	390	323	273	313	298	280	322
Conductivity[d]	µmhos/cm	3100	2850	3110	3170	3130	3970	2620	2650	2540	2450
DO[d]	mg/L	0.13	0.33	1.39	0.46	0.4	0.99	0.572	0.1	0.627	0.291
ORP[d]	mV	-214	-202	-174	-165	76	-19	-12	-6	-38	-77
pH[d]	s.u.	7.31	7.35	7.34	7.21	7.23	7	6.79	6.89	7.02	6.36
Temperature[d]	C	16.5	16.1	15.3	10.3	8.1	15.2	14.5	9.6	10.6	12.9
Turbidity[d]	NTU	--	12.9	17.4	10.7	3.7	3.85	3.65	3.82	4.88	10.9
Common Ions[e]											
Ca	mg/L	304	252	264	316	306	231	269	258	264	274
Chloride[c]	mg/L	148	134	157	201	171	94.2	111	149	125J	133
Fluoride[c]	µg/L	--	--	--	--	--	--	--	349	304	339
Hardness	mg/L	1100	915	972	1170	1110	808	931	914	928	962
K	mg/L	17.0	17.0	17.9	18.4	17.2	16.3	18.9	17.6	15.5	18.3
Mg	mg/L	83.5	69.3	75.9	92.4	84.9	56.2	63.0	65.5	65.2	67.4
Na	mg/L	331	324	338	349	307	277	281	253	239	245
NH_4[c]	µg/L	--	--	--	7200	6250	2750	1480	--	--	460
NO_2 as N[c]	µg/L	--	--	--	779	1330	656	733	--	--	--
NO_3 as N[c]	µg/L	3370	7910	6870	2710	12200	5680	6670	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	7790	8770	5690
SO_4[c]	mg/L	1220	1200	1370	1350	1180	967	960	963	711	856
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	13400	8780	13100	28800	13800	1370	2110	2050	2660	1480
Mn	µg/L	622	374	526	627	537	299	415	356	278	238
Mo	µg/L	21.8	30.1	19.7	16.4	22J	36.3	32.7	31.8	30.1	38.9
Se	µg/L	8.4	9.8	4.1	17.8	43.9	10	17.3	52.8	102	88.9
U	µg/L	27.5	68.5	77.2	107	151	172	226	227	260	323
V	µg/L	1.0U	1.0U	1.0U	1.0U	0.4U	11.2	9.3	3.2	10.8	35.4
Radiological											
U	µg/L	27.5	68.5	77.2	107	151	172	226	227	260	323

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UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- T2-S[a]

Analyte	Unit	09/14/99	10/19/99	11/16/99	01/11/00	04/11/00	08/16/00	10/17/00	01/23/01	04/17/01	07/10/01
Field Measurements											
Alkalinity[c]	mg/L	*59*	*222*	*238*	*303*	*264*	--	*324*	333	285	316
Conductivity[d]	µmhos/cm	2730	2860	3050	3090	3150	1390	2610	2640	2570	2490
DO[d]	mg/L	0.01	0.28	--	0.41	0.42	0.86	1.084	0	0.582	0.388
ORP[d]	mV	-318	-214	-200	-177	100	-47	-71	-111	-85	-51
pH[d]	s.u.	8.03	7.38	7.44	7.44	6.67	7.13	6.91	7.11	6.95	6.31
Temperature[d]	C	17.4	16.3	15.0	10.1	7.9	15.2	14.3	9.1	9.3	13.3
Turbidity[d]	NTU	--	4.45	3.29	3.69	13.6	3.22	0.66	7.81	6.03	32.6
Common Ions[e]											
Ca	mg/L	234	240	249	266	285	205	245	249	264	276
Chloride[c]	mg/L	151	132	140	199	159	93.2	111	149	126J	135
Fluoride[c]	µg/L	--	--	--	--	--	--	--	298	329	341
Hardness	mg/L	791	880	944	1010	1030	741	871	891	926	972
K	mg/L	16.9	16.7	18.0	17.2	16.9	16.7	18.3	17.1	15.2	18.0
Mg	mg/L	*50.1*	*68.2*	*78.3*	*84.8*	*76.4*	*55.6*	*62.9*	*65.4*	*64.7*	*68.8*
Na	mg/L	336	314	345	342	288	268	278	248	227	248
NH_4[c]	µg/L	--	--	--	4020	1140	2500	1970	--	--	154
NO_2 as N[c]	µg/L	--	--	--	335	39.2	248	258	--	--	--
NO_3 as N[c]	µg/L	906	8670	7500	5260	30400	3330	4040	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	6400	13200	7430
SO_4[c]	mg/L	1080	1200	1230	1320	1160	938	949	958	715	861
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	1	0.3U	0.2U	0.2U	4.5	4.3
Fe	µg/L	3730	9340	13800	21800	7730	4630	8540	9680	381	708
Mn	µg/L	250	313	459	835	283	288	367	360	101	115
Mo	µg/L	45.5	26.8	19.8	16	38.1J	28.5	30	24.2	39.1	43.3
Se	µg/L	2.0	8.5	3.6	15.2	51.7	6.6	11.7	48.8	120	86.7
U	µg/L	*7.6*	*64.2*	*70.1*	*86.2*	*342*	*100*	*168*	*194*	*347*	*343*
V	µg/L	1.0U	1.0U	1.2	1U	49.6	4	10	7.6	180	195
Radiological											
U	µg/L	7.6	64.2	70.1	86.2	342	100	168	194	347	343

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[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]*Gross alpha minus uranium activity. Result rounded as appropriate.*
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- T3-D[a]

Analyte	Unit	09/14/99	10/19/99	11/16/99	01/11/00	04/11/00	08/16/00	10/17/00	01/23/01	04/17/01	07/10/01
Field Measurements											
Alkalinity[c]	mg/L	283	256	316	405	295	272	307	296	305	322
Conductivity[d]	µmhos/cm	3100	2850	3140	3120	3110	3980	2580	2590	2500	2390
DO[d]	mg/L	0.01	0.24	0.84	0.42	0.72	1.07	0.322	0	0.958	0.3
ORP[d]	mV	-243	-247	-226	-229	12	-96	-106	-123	-53	-196
pH[d]	s.u.	7.34	7.39	7.52	7.43	7.55	7.19	7.02	7.08	7.23	6.77
Temperature[d]	C	16.9	15.9	14.8	10.7	9.1	14.9	14.8	9.6	9.7	12.7
Turbidity[d]	NTU	--	4.26	9.47	4.06	6.14	3.42	3.8	6.72	7.47	8.52
Common Ions[e]											
Ca	mg/L	285	245	262	283	255	209	231	216	230	236
Chloride[c]	mg/L	146	149	160	193	184	93.3	108	151	125J	130
Fluoride[c]	µg/L	--	--	--	--	--	--	--	223	174	251
Hardness	mg/L	1100	943	989	1060	981	752	838	807	847	859
K	mg/L	17.2	17.6	18.2	16.6	15.1	17.1	18.8	17.3	15.4	18.1
Mg	mg/L	93.5	80.5	81.2	86.8	83.5	55.8	63.4	64.9	66.1	65.6
Na	mg/L	331	340	337	323	281	276	282	247	233	243
NH_4[c]	µg/L	--	--	--	7720	8200	3970	3060	--	--	2270
NO_2 as N[c]	µg/L	--	--	--	597	368	480	347	--	--	--
NO_3 as N[c]	µg/L	15.2	161	608	933	2760	2550	1660	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	1220	1060	917
SO_4[c]	mg/L	1180	1250	1310	1280	1180	961	951	960	696	824
Metals[e]											
As	µg/L	0.44	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	35300	21600	23700	36900	28700	8170	18000	24700	20300	26300
Mn	µg/L	749	703	611	584	527	413	499	514	520	490
Mo	µg/L	6.8	10.0	9.2	11.7	10.9J	26.4	16	11.3	11	14
Se	µg/L	2.0	1.6	2.0	11.7	16.9	5.2	5.5	8.6	26.5	27.4
U	µg/L	0.50	3.5	7.3	30	31.4	61.3	82.9	24	44.6	80.8
V	µg/L	1.0U	1.0U	1.0U	1U	0.4U	1.4	1.2U	1.4U	1.4	1.7
Radiological											
U	µg/L	0.50	3.5	7.3	30	31.4	61.3	82.9	24	44.6	80.8

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[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- T3-S[a]

Analyte	Unit	09/14/99	10/19/99	11/16/99	01/11/00	04/11/00	08/16/00	10/17/00	01/23/01	04/17/01	07/10/01
Field Measurements											
Alkalinity[c]	mg/L	43	85	187	273	273	284	393	306	287	352
Conductivity[d]	µmhos/cm	2690	2580	2890	2960	3070	3950	2620	2600	2500	2470
DO[d]	mg/L	0.02	0.22	0.58	0.41	0.61	0.99	0.539	0	0.978	0.34
ORP[d]	mV	-265	-303	-246	-246	59	-97	-100	-122	-136	-127
pH[d]	s.u.	9.31	7.93	7.66	7.68	7.02	7.16	6.95	7.19	7.18	6.45
Temperature[d]	C	17.0	16.8	16.4	10.7	8.8	16.1	15.1	9.2	10.3	13.2
Turbidity[d]	NTU	--	3.87	5.20	11.9	19.2	0.94	7.26	11.2	15.2	6.74
Common Ions[e]											
Ca	mg/L	204	183	221	266	274	220	255	232	253	271
Chloride[c]	mg/L	149	145	159	193	168	94.6	111	149	125J	133
Fluoride[c]	µg/L	--	--	--	--	--	--	--	291	293	327
Hardness	mg/L	711	758	889	1050	1010	785	895	849	900	955
K	mg/L	16.3	15.1	15.6	14.6	16.9	16.7	18.3	17.0	15.6	18.4
Mg	mg/L	49.0	73.1	81.8	92.9	78.9	57.3	62.8	65.6	65.1	67.5
Na	mg/L	332	311	323	338	291	284	280	247	231	248
NH_4[c]	µg/L	--	--	--	3840	3480	2380	1650	--	--	499
NO_2 as N[c]	µg/L	--	--	--	329	289	1180	789	--	--	--
NO_3 as N[c]	µg/L	28.5	20.1	953	734	19700	4520	5160	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	4930	7740	4780
SO_4[c]	mg/L	1020	1210	1300	1240	1200	964	952	938	720	857
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	9.0U	7860	16100	19300	11100	6150	12200	11300	2900	9270
Mn	µg/L	141	1070	855	1200	531	274	408	394	294	296
Mo	µg/L	48.1	17.1	12.9	14.8	23.7J	38.8	24.4	22.5	27.4	33
Se	µg/L	0.10U	0.61	4.3	11.7	36.4	9.1	13.9	47	99.9	85.7
U	µg/L	0.20U	0.20U	17.5	30.6	166	115	149	102	258	282
V	µg/L	1.0U	1.0U	1.0U	1U	3.5	1.2U	1.5	1.4U	22.6	11
Radiological											
U	µg/L	0.20U	0.20U	17.5	30.6	166	115	149	102	258	282

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[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- T4-D[a]

Analyte	Unit	09/14/99	10/19/99	11/16/99	01/11/00	04/11/00	08/16/00	10/17/00	01/23/01	04/17/01	07/10/01
Field Measurements											
Alkalinity[c]	mg/L	36	38	78	149	125	119	232	235	236	302
Conductivity[d]	µmhos/cm	2770	2630	2830	2870	2840	3470	2380	2420	2350	2290
DO[d]	mg/L	0.00	0.16	0.66	0.32	0.19	0.7	0.733	0	1.1	0.154
ORP[d]	mV	-273	-425	-270	-327	94	-229	-240	-241	-40	-265
pH[d]	s.u.	8.73	8.46	7.68	7.67	7.68	7.59	7.65	7.64	7.48	7.3
Temperature[d]	C	16.6	15.9	15.1	10.5	9.4	15	14.9	9.6	11.4	12.9
Turbidity[d]	NTU	--	5.28	9.43	3.47	4.16	5.69	7.63	4.2	25.9	7.68
Common Ions[e]											
Ca	mg/L	173	153	165	198	172	117	153	177	165	196
Chloride[c]	mg/L	151	151	163	192	185	92.8	103	151	126J	127
Fluoride[c]	µg/L	--	--	--	--	--	--	--	269	42	55.5
Hardness	mg/L	807	694	752	895	768	517	645	715	667	754
K	mg/L	17.5	17.0	17.5	18.8	14.6	17.5	18.9	17.3	14.6	19.7
Mg	mg/L	91.1	75.7	82.6	97.3	82.1	54.6	63.9	66.4	62.0	64.2
Na	mg/L	327	322	333	353	270	277	277	256	227	240
NH_4[c]	µg/L	--	--	--	8700	11600	5200	5470	--	--	2870
NO_2 as N[c]	µg/L	--	--	--	8.5U	27.2U	27.0U	13.6U	--	--	--
NO_3 as N[c]	µg/L	6.4	2.3U	26.2	18.1U	29.6U	31.0U	14.8U	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	117	7.3	10.8
SO_4[c]	mg/L	1100	1220	1280	1220	1170	907	925	933	651	799
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	188	2940	15400	47000	34000	17000	34100	43100	38000	53300
Mn	µg/L	270	550	683	596	439	336	612	561	575	663
Mo	µg/L	4.8	10.0	11.6	0.41U	0.4UJ	3.1	0.3U	8.2	0.3U	3.5
Se	µg/L	0.10U	0.10U	0.10U	0.1U	2.9	0.1U	0.1U	0.14	0.3U	0.59
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10U	0.10U	0.10U	0.1U	0.11	0.1U
V	µg/L	1.0U	1.0U	1.0U	1U	0.4U	1.2U	1.2U	1.4U	0.4U	0.3U
Radiological											
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10U	0.10U	0.10U	0.1U	0.11	0.1U

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[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- T4-S[a]

Analyte	Unit	09/14/99	10/19/99	11/16/99	01/11/00	04/11/00	08/16/00	10/17/00	01/23/01	04/17/01	07/10/01
Field Measurements											
Alkalinity[c]	mg/L	14	17	32	117	48	42	57	32	74	315
Conductivity[d]	µmhos/cm	2660	2420	2650	2660	2730	3320	1989	2030	2100	2420
DO[d]	mg/L	-0.04	0.16	1.27	0.27	0.12	1.8	0.852	0	1.1	0.239
ORP[d]	mV	-295	-319	-272	-413	72	-39	-152	-372	-177	-302
pH[d]	s.u.	8.92	9.66	9.58	8.88	8.27	9.24	7.67	9	7.81	7.23
Temperature[d]	C	17.3	17.7	17.1	11.4	9	15.7	15.6	9.7	9.8	13.5
Turbidity[d]	NTU	--	3.46	3.35	6.41	6.01	1.6	0.66	3.92	4.77	6.27
Common Ions[e]											
Ca	mg/L	185	140	140	174	166	78.8	59.5	66.7	111	232
Chloride[c]	mg/L	156	148	166	187	186	88.7	98.8	143	123J	133
Fluoride[c]	µg/L	--	--	--	--	--	--	--	258	375	133
Hardness	mg/L	685	581	699	817	766	402	403	410	530	856
K	mg/L	14.5	15.3	15.6	16.2	14.2	18.2	19.2	19.3	16.4	18.2
Mg	mg/L	54.2	56.1	84.9	92.9	85.4	49.9	61.7	59.1	61.3	67.1
Na	mg/L	325	312	326	347	275	281	281	248	228	244
NH_4[c]	µg/L	--	--	--	5400	9920	7100	4790	--	--	1690
NO_2 as N[c]	µg/L	--	--	--	8.5U	27.2U	13.5U	13.6U	--	--	--
NO_3 as N[c]	µg/L	5.0	9.0U	146	18.1U	29.6U	15.5U	14.8U	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	123	4.7U	13.9
SO_4[c]	mg/L	1020	1080	1130	1190	1130	848	819	788	580	857
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	195	114	115	925	2480	9.1U	11.6U	1220	14200	52800
Mn	µg/L	562	193	235	1220	467	73	33.6	444	428	490
Mo	µg/L	30.7	100	85.1	31.5	14.4J	47.4	81.2	18.4	4.1	6.4
Se	µg/L	0.10U	0.10U	0.10U	0.1U	0.2U	0.1U	0.1U	0.1U	2.8	31
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10U	0.10U	0.1U	0.1U	0.1U	0.1U
V	µg/L	1.0U	1.0U	1.0U	1U	0.4U	1.2U	1.2U	1.4U	0.4U	0.3U
Radiological											
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10U	0.10U	0.1U	0.1U	0.1U	0.1U

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[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- T5-D[a]

Analyte	Unit	09/14/99	10/19/99	11/16/99	01/11/00	04/11/00	08/16/00	10/17/00	01/23/01	04/17/01	07/10/01
Field Measurements											
Alkalinity[c]	mg/L	22	37	49	76	45	40	158	196	218	282
Conductivity[d]	µmhos/cm	2710	2580	2770	2760	2700	3100	2340	2250	2340	2240
DO[d]	mg/L	0.26	0.16	0.42	0.29	0.13	0.51	0.499	0	0.69	0.228
ORP[d]	mV	-263	-299	-341	-315	19	-273	-240	-256	-177	-207
pH[d]	s.u.	9.59	9.68	8.56	7.81	9.66	8.23	7.75	7.78	7.65	7.35
Temperature[d]	C	16.0	15.9	15.2	11.2	9	15.3	14.9	9.8	10.1	12.6
Turbidity[d]	NTU	--	2.99	7.39	3.42	3.74	8.1	2.5	6.55	3.91	5.17
Common Ions[e]											
Ca	mg/L	168	149	144	183	152	83.4	134	162	171	186
Chloride[c]	mg/L	154	149	164	208	185	90.0	106	150	126J	124
Fluoride[c]	µg/L	--	--	--	--	--	--	--	273	105	68.8
Hardness	mg/L	783	681	679	858	718	431	589	673	694	726
K	mg/L	18.5	17.0	17.3	19.9	14.8	18.2	19.0	17.7	15.1	19.7
Mg	mg/L	88.3	75.1	77.6	97.4	82.3	54.2	61.8	65.3	64.9	63.4
Na	mg/L	326	329	327	349	274	281	277	252	234	236
NH_4[c]	µg/L	--	--	--	8180	11100J	7120	7770	--	--	3190
NO_2 as N[c]	µg/L	--	--	--	8.5U	27.2U	13.5U	13.6U	--	--	--
NO_3 as N[c]	µg/L	15.2	2.3U	33.7	18.1U	29.6U	15.5U	14.8U	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	109	5.3	13
SO_4[c]	mg/L	1090	1200	1250	1300	1150	853	927	934	653	788
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.2U	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	9.0U	9.0U	1060	26300	19300	2860	27400	36900	33700	46100
Mn	µg/L	122	172	1060	896J	448	227	608	491	567	622
Mo	µg/L	4.8	11.0	5.0	0.4UJ	0.4UJ	2.6	0.3U	4.8	0.3U	2.9U
Se	µg/L	0.10U	0.10U	0.10U	0.1U	1.3	0.13	0.1U	5.2	0.3U	0.3U
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.1U	0.10U	0.10U	0.1U	0.10U	0.1U
V	µg/L	1.0U	1.0U	1.0U	1U	0.4U	1.2U	1.2U	1.4U	0.4U	0.3U
Radiological											
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.1U	0.10U	0.10U	0.1U	0.10U	0.1U

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[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
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Alluvial Ground Water -- Downgradient -- T5-S[a]

Analyte	Unit	09/14/99	10/19/99	11/16/99	01/11/00	04/11/00	08/16/00	10/17/00	01/23/01	04/17/01	07/10/01
Field Measurements											
Alkalinity[c]	mg/L	22	14	35	48	37	60	30	43	60	117
Conductivity[d]	µmhos/cm	2640	2310	2630	2650	2680	3250	2000	1975	2090	2070
DO[d]	mg/L	-0.04	0.19	0.80	0.42	0.32	0.86	0.626	0	0.426	0.25
ORP[d]	mV	-422	-342	-331	-326	15	-167	-211	-218	-34	-305
pH[d]	s.u.	9.23	9.38	9.54	9.44	9.72	9.34	7.51	9.44	7.78	7.72
Temperature[d]	C	17.9	17.7	17.2	11.4	9	15.8	15.8	9.9	10.1	13.1
Turbidity[d]	NTU	--	1.96	2.62	2.6	4.17	1.09	2.02	4.43	3.37	6.49
Common Ions[e]											
Ca	mg/L	190	141	137	164	169	84.1	64.5	63.8	94.9	143
Chloride[c]	mg/L	159	148	164	192	201	87.9	96.5	142	124J	131
Fluoride[c]	µg/L	--	--	--	--	--	--	--	290	469	501
Hardness	mg/L	704	565	634	774	763	399	396	407	505	631
K	mg/L	15.5	15.6	16.7	16.8	14.1	18.5	19.9	20.0	16.0	18.7
Mg	mg/L	55.8	51.8	70.9	88.4	82.8	45.9	57.0	60.1	65.0	66.6
Na	mg/L	322	312	328	351	276	281	284	252	231	240
NH_4[c]	µg/L	--	--	--	5720	9850	7920	4020	--	--	1770
NO_2 as N[c]	µg/L	--	--	--	597	27.2U	13.5U	13.6U	--	--	--
NO_3 as N[c]	µg/L	9.3	2.3U	29.4	935	29.6U	15.5U	14.8U	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	--	118	4.7U	18.6
SO_4[c]	mg/L	1010	1070	1130	1280	1160	838	834	781	537	800
Metals[e]											
As	µg/L	0.40U	0.40U	0.40U	0.4U	0.29	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	335	187	101	187	79.6	9.1U	11.6U	211	6980	19200
Mn	µg/L	569	312	266	323J	269	93	67.6	302	1780	424
Mo	µg/L	16.9	51.7	27.0	64.7J	39.4J	80.8	134	36.4	10	5.2
Se	µg/L	0.10U	0.10U	0.10U	0.1U	0.2U	0.1U	0.1U	0.1U	0.3U	3.9
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10U	0.10U	0.10U	0.1U	0.1U	0.1U
V	µg/L	1.0U	1.0U	1.0U	1U	0.4U	1.2U	1.2U	1.4U	0.4U	0.3U
Radiological											
U	µg/L	0.20U	0.20U	0.20U	0.1U	0.10U	0.10U	0.10U	0.1U	0.1U	0.1U

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UJ = Not detected, associated value is estimated.
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[d]Sample was unfiltered.
[e]*Metals and cations are from filtered samples October 1997 through October 2002.*
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- T6-D[a]

Analyte	Unit	10/20/99	11/17/99	01/12/00	03/01/00	04/11/00	08/16/00	10/17/00	01/23/01	04/17/01	07/12/01	10/15/01	01/28/02	04/02/02	07/09/02	09/30/02
Field Measurements																
Alkalinity[c]	mg/L	--	--	50	--	75	--	33	--	--	--	155	170	211	173	174
Conductivity[d]	µmhos/cm	--	2480	2590	2400	2610	1990	2200	2070	1990	1977	1710	1667	1776	1437	1469
DO[d]	mg/L	--	--	--	--	--	0.77	--	--	--	--	1.1	--	1.1	2.24	5.2
ORP[d]	mV	--	-4	222	-170	74	-159	-86	-282	-142	-163	218	-76	-166	-140	-82.6
pH[d]	s.u.	--	6.38	6.44	7.2	7.72	6.93	6.67	7.26	7.44	7.24	7.48	7.08	7.33	7.11	7.01
Temperature[d]	C	--	16.2	7.5	8.5	10.5	17.4	16.1	9.3	11.7	13.6	15.5	7.9	11	16.99	18.36
Turbidity[d]	NTU	--	837	34.3	>1000	35.2	--	696	165	--	99	80.8	>1000	>1000	52.4	331
Common Ions[e]																
Ca	mg/L	184	183	165	164	178	95.1	103	--	121	126	93.0	116	137	104	91.5
Chloride[c]	mg/L	136	143	177	169	174	92.1	99.0	--	120J	17.5	103	83.9	83.3	77.6	77.0
Fluoride[c]	µg/L	--	--	--	94.1	--	--	--	--	97.8	90.6	125	171J	126	133J	25.1U
Hardness	mg/L	660	639	718	743	750	417	478	--	560	572	463	527	615	494	475
K	mg/L	11.5	14.2	16.4	16.5	15.4	15.0	19.0	--	16.8	18.7	18.0	14.2	14.4	13.3	14.5
Mg	mg/L	48.8	44.3	74.2	81.1	74.3	43.7	53.7	--	62.5	62.6	56.0	57.6	66.3	56.8	59.9
Na	mg/L	280	308	363	304	279	288	286	--	230	247	169	140	142	123	129
NH_4[c]	µg/L	--	--	229	--	13000	7820	2980	--	--	3290	--	--	--	--	--
NO_2 as N[c]	µg/L	--	--	8.5U	--	95.5	58.6	28.4	--	--	--	--	--	--	--	--
NO_3 as N[c]	µg/L	4900	--	3500	--	1300	911	1950	--	--	--	--	--	--	--	--
NO_3+NO_2 as N[c]	µg/L	--	--	--	179	--	--	--	--	1080	8.4	98.6	7.3U	182	4.9U	14.8
SO_4[c]	mg/L	1030	1040	1090	1090	1150	820	881	--	557	736	630	634	576	389	516
Metals[e]																
As	µg/L	0.81	0.85	3.4	18.5	3.3	5.2	2.6	0.97	3.6	1.1	0.6U	0.6U	0.77	2.2	0.68
Fe	µg/L	9.0U	9.0U	377	105	7.4U	9.1U	11.6U	13.6	2260	859	44.6	7080	13900	11000	5580
Mn	µg/L	1120	370	1760J	2870	2240	1770	3210	828	2760	2140	159	873	1150	940	816
Mo	µg/L	29.1	25.0	53.7J	24.8	36.7J	28.8	13.3	11.2	4.7	13.5	9.5	1.5U	1.8U	1.8U	1.7U
Se	µg/L	2.1	2.6	0.39	0.1U	1.4	0.1U	0.1U	0.26	0.41	0.3U	0.79	0.3U	0.2U	0.1U	0.1U
U	µg/L	3.1	7.8	6.6	15.7	22.6J	19.7	1.8	2.1	6.5	5.9	7.3	2.4	4.8	3.1	2.4
V	µg/L	27.8	42.9	84.4	10	28.2	9.3	16	1.4U	1.5	0.37	1.5	0.4U	0.3U	0.3U	0.3U
Radiological																
U	µg/L	3.1	7.8	6.6	15.7	22.6J	19.7	1.8	2.1	6.5	5.9	7.3	2.4	4.8	3.1	2.4

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[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

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Alluvial Ground Water -- Downgradient -- T6-S[a]

Analyte	Unit	02/29/00	04/11/00	10/17/00	04/17/01	07/12/01
Field Measurements						
Alkalinity[c]	mg/L	75	68	--	--	--
Conductivity[d]	µmhos/cm	2490	2740	1771	1910	2040
DO[d]	mg/L	--	--	--	--	0.425
ORP[d]	mV	-167	65	77	-58	-218
pH[d]	s.u.	7.81	8.04	6.48	7.13	7.38
Temperature[d]	C	7.9	10.4	16.7	11.3	14.6
Turbidity[d]	NTU	--	24.2	436	--	144
Common Ions[e]						
Ca	mg/L	170	171	89.3	128	118
Chloride[c]	mg/L	171	174	98.1	120J	--
Fluoride[c]	µg/L	910	--	--	76.5	--
Hardness	mg/L	771	742	463	575	545
K	mg/L	16.8	15.2	19.9	16.8	18.1
Mg	mg/L	84.1	76.5	58.4	62.1	60.7
Na	mg/L	301	279	282	229	234
NH_4[c]	µg/L	--	8220J	5270	--	--
NO_2 as N[c]	µg/L	--	554	63.9	--	--
NO_3 as N[c]	µg/L	--	5440	414	--	--
NO_3+NO_2 as N[c]	µg/L	12U	--	--	29	--
SO_4[c]	mg/L	1120	1160	877	571	--
Metals[e]						
As	µg/L	7.2	1.2	1.1	0.78	2.6
Fe	µg/L	151	7.4U	699	15500	2850
Mn	µg/L	2380	1410	3200	1910	2490
Mo	µg/L	15	16.5J	17	0.3U	38.2
Se	µg/L	0.1	3.3	0.1U	0.3U	0.3U
U	µg/L	5.6	5.3	1.7	1.4	2.8
V	µg/L	4.6	3.9	7.9	0.4U	1.1
Radiological						
U	µg/L	5.6	5.3	1.7	1.4	2.8

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[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- T7-D[a]

Analyte	Unit	02/29/00	04/11/00	10/17/00	01/24/01	04/18/01	07/12/01
Field Measurements							
Alkalinity[c]	mg/L	79	70	--	--	--	--
Conductivity[d]	µmhos/cm	2520	2790	2370	2120	2110	2000
DO[d]	mg/L	3	--	--	--	--	--
ORP[d]	mV	-215	76	135	-278	128	-160
pH[d]	s.u.	8.08	7.66	6.24	6.93	7.19	7.13
Temperature[d]	C	9	10.8	16	9	10.3	14.3
Turbidity[d]	NTU	269	30.3	73.3	167	50.9	76
Common Ions[e]							
Ca	mg/L	176	210	123	--	124	126
Chloride[c]	mg/L	169	181	96.6	--	118J	--
Fluoride[c]	µg/L	307	--	--	--	113	--
Hardness	mg/L	778	885	520	--	564	566
K	mg/L	18.4	17.5	16.8	--	16.6	18.0
Mg	mg/L	82.2	87.6	51.6	--	61.8	61.0
Na	mg/L	307	330	282	--	224	247
NH_4[c]	µg/L	--	11300J	928	--	--	--
NO_2 as N[c]	µg/L	--	489	135	--	--	--
NO_3 as N[c]	µg/L	--	1510	6820	--	--	--
NO_3+NO_2 as N[c]	µg/L	86.7	--	--	--	1110	--
SO_4[c]	mg/L	1120	1170	887	--	553	--
Metals[e]							
As	µg/L	23.2	2.8	0.96	4.5	0.5U	3
Fe	µg/L	8.9U	7.4U	11.6U	564	2080	1340
Mn	µg/L	2880	1690	2320	1120	2020	2970
Mo	µg/L	35.2	43J	10	8.3	4.1	29.5
Se	µg/L	0.44	2.3	0.13	0.28	0.3U	0.35
U	µg/L	50.2	20.7J	6	8.2	5.7	10.8
V	µg/L	94.6	52.3	18.8	15.2	3.7	4.1
Radiological							
U	µg/L	50.2	20.7J	6	8.2	5.7	10.8

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[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- T99-01[a]

Analyte	Unit	07/30/99	10/14/99	01/13/00	04/19/00	07/27/00
Field Measurements						
Alkalinity[c]	mg/L	292	260	--	152	182
Conductivity[d]	µmhos/cm	--	3340	3340	3910	2300
DO[d]	mg/L	--	--	5.32	--	2.63
ORP[d]	mV	--	--	194	138	177
pH[d]	s.u.	6.47	6.52	--	6.19	6.61
Temperature[d]	C	15.2	11.5	8	8.8	18.6
Turbidity[d]	NTU	--	--	311	138	>1000
Common Ions[e]						
Ca	mg/L	--	--	287	253	232
Chloride[c]	mg/L	--	--	140	130	75.3
Fluoride[c]	µg/L	--	--	237	282	298
Hardness	mg/L	--	--	1030	898	831
K	mg/L	--	--	23.7	18.5	15.9
Mg	mg/L	--	--	76.3	64.7	61.0
Na	mg/L	--	--	352	262	227
NO_3+NO_2 as N[c]	µg/L	--	--	16800J	8310	10600
SO_4[c]	mg/L	--	--	1220	1070	992
TDS[d]	mg/L	--	--	2580	2000	2200
Metals[e]						
As	µg/L	3.5J	--	2.4	2	2.4
Fe	µg/L	5.9U	--	8.9U	7.4U	9.1U
Mn	µg/L	48.3	--	0.9U	1.2	1.5U
Mo	µg/L	69.1	--	63.5	50.7	48.3
Se	µg/L	16.1	--	25	14	9
U	µg/L	901	--	443	199	257
V	µg/L	90.8	--	86.5	72.6	78.5
Radiological						
Alpha[c,f]	pCi/L	--	--	195	113	138J
Alpha-U[c,g]	pCi/L	--	--	0[h]	0[h]	0[h]
Beta[c]	pCi/L	--	--	86.2	88.7	90.9
U	µg/L	901	--	443	199	257

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- T99-03[a]

Analyte	Unit	07/30/99	10/15/99	01/13/00	04/19/00
Field Measurements					
Conductivity[d]	µmhos/cm	--	8290	8850	--
DO[d]	mg/L	--	--	3.4	--
ORP[d]	mV	--	--	221	--
pH[d]	s.u.	7.46	7.12	--	--
Temperature[d]	C	14.5	15.8	9.1	--
Turbidity[d]	NTU	--	--	502	--
Common Ions[e]					
Ca	mg/L	--	--	403	444
Hardness	mg/L	--	--	5410	5560
K	mg/L	--	--	2.53	2.20
Mg	mg/L	--	--	1070	1080
Na	mg/L	--	--	760	744
Metals[e]					
As	µg/L	1.0U	--	0.89	0.7
Fe	µg/L	66.0J	--	8.9U	11.7
Mn	µg/L	1030	--	479	337
Mo	µg/L	5.5J	--	2.3J	3.4
Se	µg/L	1.4J	--	6	3.7
U	µg/L	34.1	--	36.3	33.5
V	µg/L	0.60U	--	1.0U	5
Radiological					
U	µg/L	34.1	--	36.3	33.5

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- T99-05[a]

Analyte	Unit	07/28/99	10/14/99	04/10/00	11/01/00	04/10/01
Field Measurements						
Alkalinity[c]	mg/L	--	293	191	--	247
Conductivity[d]	µmhos/cm	--	727	552	320	620
DO[d]	mg/L	--	--	1.2	--	7.5
ORP[d]	mV	--	--	65	-60	-37
pH[d]	s.u.	7.47	7.33	7.16	7.36	7.62
Temperature[d]	C	--	14.0	8.9	7.9	7.7
Turbidity[d]	NTU	--	--	4.53	511	2.49
Common Ions[e]						
Ca	mg/L	--	--	56.1	58.2	57.9
Chloride[c]	mg/L	--	--	1.51	--	2.79
Fluoride[c]	µg/L	--	--	228	--	200
Hardness	mg/L	--	--	203	208	210
K	mg/L	--	--	0.980	1.76	0.938
Mg	mg/L	--	--	15.2	15.1	15.9
Na	mg/L	--	--	38.8	38.9	43.6
NO_3+NO_2 as N[c]	µg/L	--	--	32.4U	--	5.8
SO_4[c]	mg/L	--	--	67.4	--	78.9
TDS[d]	mg/L	--	--	323	--	400
Metals[e]						
As	µg/L	1.0U	--	0.42	0.2U	0.5U
Fe	µg/L	5.9U	--	11.9	11.7U	18.2
Mn	µg/L	559	--	60	25.5	28.7
Mo	µg/L	15.1J	--	0.4U	5.1	0.4U
Se	µg/L	1.0U	--	0.2U	2.4	0.3U
U	µg/L	10.9	--	8.8	10.9	13
V	µg/L	0.60U	--	0.40U	1.3U	0.47
Radiological						
Alpha[c,f]	pCi/L	--	--	2.2UJ	--	4.2
Alpha-U[c,g]	pCi/L	--	--	2.2UJ	--	0[h]
Beta[c]	pCi/L	--	--	2.7	--	4.0U
U	µg/L	10.9	--	8.8	10.9	13

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- T99-11[a]

Analyte	Unit	01/13/00	04/18/00	07/27/00
Field Measurements				
Alkalinity[c]	mg/L	268	122	360
Conductivity[d]	µmhos/cm	3270	2430	2050
DO[d]	mg/L	3.32	--	0.93
ORP[d]	mV	188	166	103
pH[d]	s.u.	--	6.33	6.63
Temperature[d]	C	10.2	9.3	10.8
Turbidity[d]	NTU	3.85	2.34	4.7
Common Ions[e]				
Ca	mg/L	297	231	196
Chloride[c]	mg/L	142	149	69.2
Fluoride[c]	µg/L	262	335	354
Hardness	mg/L	1070	849	720
K	mg/L	21.9	14.4	12.9
Mg	mg/L	78.6	66.0	56.1
Na	mg/L	372	238	193
NO_3+NO_2 as N[c]	µg/L	20200J	3380	3890
SO_4[c]	mg/L	1290	993	871
TDS[d]	mg/L	2690	1840	1640
Metals[e]				
As	µg/L	4.5	2.6	3.5
Fe	µg/L	8.9U	9.3	10
Mn	µg/L	0.9U	3.9	14
Mo	µg/L	56.4	40.9	41.9
Se	µg/L	28.4	4.7	3.8
U	µg/L	775	96.5	134
V	µg/L	164	134	157
Radiological				
Alpha[c,f]	pCi/L	524	63.0	70.8J
Alpha-U[c,g]	pCi/L	0[h]	0[h]	0[h]
Beta[c]	pCi/L	151	34.9	49.3
U	µg/L	775	96.5	134

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- TW-01[a]

Analyte	Unit	08/15/00	10/17/00	01/23/01	04/17/01	07/09/01
Field Measurements						
Alkalinity[c]	mg/L	225	315	236	210	242
Conductivity[d]	µmhos/cm	2860	2850	2480	2340	2170
DO[d]	mg/L	0.34	0.23	1.6	1.2	0.152
ORP[d]	mV	132	68	115	-19	36
pH[d]	s.u.	6.43	6.88	6.39	6.45	6.67
Temperature[d]	C	14.3	14.1	10	9.7	10.9
Turbidity[d]	NTU	2.98	1.38	3.56	1.53	1.23
Common Ions[e]						
Ca	mg/L	--	--	--	193	204
Chloride[c]	mg/L	--	--	--	--	85.7
Fluoride[c]	µg/L	--	--	--	--	443J
Hardness	mg/L	--	--	--	691	722
K	mg/L	--	--	--	19.1	20.5
Mg	mg/L	--	--	--	50.7	51.7
Na	mg/L	--	--	--	220	221
NH_4[c]	µg/L	--	--	--	--	684
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	9110J
SO_4[c]	mg/L	--	--	--	--	757
Metals[e]						
As	µg/L	10.9	13.2	12.5	8.6	11.7
Fe	µg/L	--	--	13.5	1.0U	0.7U
Mn	µg/L	--	--	823	694	729
Mo	µg/L	86	103	97	82.4J	91.7
Se	µg/L	3.5	11	44.8	70.9	72.4
U	µg/L	418	498	471	422	437
V	µg/L	381	442	413	337	416
Radiological						
U	µg/L	418	498	471	422	437

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]*Uranium activity is below detection limits.*

Alluvial Ground Water -- Downgradient -- TW-02[a]

Analyte	Unit	08/15/00	10/17/00	01/24/01	04/17/01	07/10/01
Field Measurements						
Alkalinity[c]	mg/L	240	287	239	222	231
Conductivity[d]	µmhos/cm	2650	2690	2450	2280	2230
DO[d]	mg/L	0.25	0.21	5.5	0.397	0.451
ORP[d]	mV	129	72	180	-37	11
pH[d]	s.u.	6.53	6.79	6.78	6.74	6.75
Temperature[d]	C	14	14.9	8.7	9.6	11.4
Turbidity[d]	NTU	12.5	1.38	52.8	1.37	0.61
Common Ions[e]						
Ca	mg/L	--	--	--	191	218
Chloride[c]	mg/L	--	--	--	--	95.4
Fluoride[c]	µg/L	--	--	--	--	403
Hardness	mg/L	--	--	--	684	768
K	mg/L	--	--	--	17.9	20.0
Mg	mg/L	--	--	--	50.4	54.4
Na	mg/L	--	--	--	216	217
NH_4[c]	µg/L	--	--	--	--	480
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	8650J
SO_4[c]	mg/L	--	--	--	--	758
Metals[e]						
As	µg/L	11	12.4	8.6	10.5	11.6
Fe	µg/L	--	--	11U	1U	1.5
Mn	µg/L	--	--	2210	573	614
Mo	µg/L	74.7	84.4	68.7	71.8	76.6
Se	µg/L	7	14.8	47.6	87	86.1
U	µg/L	348	391	396	381	396
V	µg/L	356	412	310	303	389
Radiological						
U	µg/L	348	391	396	381	396

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- TW-03[a]

Analyte	Unit	08/15/00	10/17/00	01/23/01	04/17/01	07/10/01
Field Measurements						
Alkalinity[c]	mg/L	240	288	279	249	262
Conductivity[d]	µmhos/cm	2450	2670	2590	2400	2190
DO[d]	mg/L	0.38	0.25	0.3	0.713	0.675
ORP[d]	mV	128	85	-158	1	-27
pH[d]	s.u.	6.57	6.82	6.73	6.72	6.26
Temperature[d]	C	13.9	15.1	9.8	10.4	12.3
Turbidity[d]	NTU	6.97	0.96	3.53	3.42	19.3
Common Ions[e]						
Ca	mg/L	--	--	--	218	236
Chloride[c]	mg/L	--	--	--	--	116
Fluoride[c]	µg/L	--	--	--	--	352
Hardness	mg/L	--	--	--	777	835
K	mg/L	--	--	--	17.2	25.0
Mg	mg/L	--	--	--	56.4	59.6
Na	mg/L	--	--	--	223	224
NH_4[c]	µg/L	--	--	--	--	2100
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	7170
SO_4[c]	mg/L	--	--	--	--	769
Metals[e]						
As	µg/L	10.6	11.9	9.5	9.7	10.8
Fe	µg/L	--	--	11.0U	1.0U	24
Mn	µg/L	--	--	456	264	398
Mo	µg/L	64.1	68.4	60	51.6	57.9
Se	µg/L	11.7	49.4	74.2	110	102
U	µg/L	263	345	401	367	376
V	µg/L	363	399	311	277	338
Radiological						
U	µg/L	263	345	401	367	376

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- TW-04[a]

Analyte	Unit	08/15/00	10/17/00	01/23/01	04/17/01	07/10/01
Field Measurements						
Alkalinity[c]	mg/L	265	282	290	262	291
Conductivity[d]	µmhos/cm	2570	2700	2710	2480	2440
DO[d]	mg/L	0.24	0.874	0.4	0.5	0.262
ORP[d]	mV	126	136	34	-24	-47
pH[d]	s.u.	6.58	6.6	6.74	6.56	6.26
Temperature[d]	C	14.2	15.5	10.2	8.9	11.8
Turbidity[d]	NTU	7.79	68.9	45.7	2.85	10.3
Common Ions[e]						
Ca	mg/L	--	--	--	240	248
Chloride[c]	mg/L	--	--	--	--	130
Fluoride[c]	µg/L	--	--	--	--	352
Hardness	mg/L	--	--	--	848	876
K	mg/L	--	--	--	15.7	17.5
Mg	mg/L	--	--	--	60.5	62.4
Na	mg/L	--	--	--	218	219
NH_4[c]	µg/L	--	--	--	--	122
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	7910
SO_4[c]	mg/L	--	--	--	--	833
Metals[e]						
As	µg/L	9.5	11.3	9.4	7.2	9.1
Fe	µg/L	--	--	11U	1U	17.7
Mn	µg/L	--	--	144	163	182
Mo	µg/L	54.3	62.3	50.2	47.2J	44.9
Se	µg/L	13.2	30.6	94.4	121	120
U	µg/L	265	330	371	374	385
V	µg/L	324	372	296	259	303
Radiological						
U	µg/L	265	330	371	374	385

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- TW-05[a]

Analyte	Unit	08/15/00	10/18/00	01/23/01	04/16/01	07/10/01
Field Measurements						
Alkalinity[c]	mg/L	365	336	327	309	332
Conductivity[d]	µmhos/cm	2840	2860	2720	2840	2860
DO[d]	mg/L	1.45	0.93	3	1.2	0.331
ORP[d]	mV	119	83	181	4	104
pH[d]	s.u.	6.65	6.66	6.78	6.73	6.34
Temperature[d]	C	15.5	15.4	8.7	10.6	11.6
Turbidity[d]	NTU	28.9	7.08	13	8.23	14.6
Common Ions[e]						
Ca	mg/L	--	--	--	258	317
Chloride[c]	mg/L	--	--	--	--	166
Fluoride[c]	µg/L	--	--	--	--	322
Hardness	mg/L	--	--	--	915	1130
K	mg/L	--	--	--	9.89	12.1
Mg	mg/L	--	--	--	65.7	82.5
Na	mg/L	--	--	--	207	282
NH_4[c]	µg/L	--	--	--	--	6.0U
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	10900
SO_4[c]	mg/L	--	--	--	--	976
Metals[e]						
As	µg/L	1.1	2	3.6	3.9	4.4
Fe	µg/L	--	--	19.2	14.8	12.4
Mn	µg/L	--	--	655	314	574
Mo	µg/L	81.3	76.5	42.2	34.4	37.9
Se	µg/L	26.7	16.3	67.8	105	98.7
U	µg/L	260	302	343	339	337
V	µg/L	81.2	165	237	204	245
Radiological						
U	µg/L	260	302	343	339	337

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- TW-06[a]

Analyte	Unit	08/15/00	10/18/00	01/22/01	04/16/01	07/09/01
Field Measurements						
Alkalinity[c]	mg/L	360	324	330	309	318
Conductivity[d]	µmhos/cm	2780	2770	2880	2520	2760
DO[d]	mg/L	0.6	0.485	0.6	2.7	0.343
ORP[d]	mV	122	80	140	229	56
pH[d]	s.u.	6.82	6.52	6.81	6.71	6.29
Temperature[d]	C	15.5	16	9.4	10.2	13
Turbidity[d]	NTU	7.29	8.17	4.58	5.8	1.64
Common Ions[e]						
Ca	mg/L	--	--	--	300	327
Chloride[c]	mg/L	--	--	--	--	163
Fluoride[c]	µg/L	--	--	--	--	331
Hardness	mg/L	--	--	--	1060	1150
K	mg/L	--	--	--	10.0	12.4
Mg	mg/L	--	--	--	76.1	81.8
Na	mg/L	--	--	--	231	241
NH_4[c]	µg/L	--	--	--	--	6.0U
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	8900
SO_4[c]	mg/L	--	--	--	--	951
Metals[e]						
As	µg/L	5.5	5.6	6	3.4	6.1
Fe	µg/L	--	--	17	1.0U	15.9
Mn	µg/L	--	--	63.2	72.1	86.5
Mo	µg/L	34.5	38.9	35.3	29.8	31.8
Se	µg/L	47.3	10.9	60	139	124
U	µg/L	291	271	317	321	293
V	µg/L	323	352	297	258	307
Radiological						
U	µg/L	291	271	317	321	293

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- TW-07[a]

Analyte	Unit	04/17/01	07/10/01
Field Measurements			
Alkalinity[c]	mg/L	137	107
Conductivity[d]	µmhos/cm	2310	1961
DO[d]	mg/L	--	1.092
ORP[d]	mV	42	8
pH[d]	s.u.	6.57	7.22
Temperature[d]	C	10.3	12.3
Turbidity[d]	NTU	46.7	19
Common Ions[e]			
Ca	mg/L	117	128
Chloride[c]	mg/L	--	110
Fluoride[c]	µg/L	--	182
Hardness	mg/L	502	549
K	mg/L	16.1	17.6
Mg	mg/L	51.0	55.7
Na	mg/L	222	221
NH_4[c]	µg/L	--	3650
NO_3+NO_2 as N[c]	µg/L	--	712
SO_4[c]	mg/L	--	721
Metals[e]			
As	µg/L	0.5U	7.5
Fe	µg/L	1U	55.3
Mn	µg/L	2350	2310
Mo	µg/L	22.9J	24.1
Se	µg/L	3.3	7.9
U	µg/L	14.7	31
V	µg/L	10.8	19.3
Radiological			
U	µg/L	14.7	31

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected;value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- TW-08[a]

Analyte	Unit	08/17/00	10/17/00	01/24/01	04/17/01	07/10/01
Field Measurements						
Alkalinity[c]	mg/L	--	--	--	234	118
Conductivity[d]	µmhos/cm	--	2550	2300	2480	2090
DO[d]	mg/L	--	--	--	--	0.759
ORP[d]	mV	--	132	-196	43	49
pH[d]	s.u.	--	6.62	7.42	7.54	7.21
Temperature[d]	C	--	14.6	9.8	9.2	12.8
Turbidity[d]	NTU	--	>1000	62.4	--	19.6
Common Ions[e]						
Ca	mg/L	158	--	--	164	142
Chloride[c]	mg/L	115	--	--	--	128
Fluoride[c]	µg/L	246	--	--	--	209
Hardness	mg/L	648	--	--	653	626
K	mg/L	15.8	--	--	12.4	16.5
Mg	mg/L	61.6	--	--	59.1	65.8
Na	mg/L	291	--	--	235	221
NH_4[c]	µg/L	--	--	--	--	2340
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	112
SO_4[c]	mg/L	1030	--	--	--	773
Metals[e]						
As	µg/L	1.6	2.2	1.8	0.5U	4.1
Fe	µg/L	9.1U	--	95.7	1.0U	51.8
Mn	µg/L	2650	--	2330	1130	2800
Mo	µg/L	32.3	35.5	40.7	22.4	23.4
Se	µg/L	0.21	0.1U	0.21	1.2	0.41
U	µg/L	23.2	23.6	53.4	36.1	23
V	µg/L	51.5	61.6	45.2	67.2	50.5
Radiological						
U	µg/L	23.2	23.6	53.4	36.1	23

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- TW-09[a]

Analyte	Unit	08/17/00	10/17/00	01/23/01	04/16/01	07/10/01
Field Measurements						
Alkalinity[c]	mg/L	420	396	433	211	274
Conductivity[d]	µmhos/cm	2040	1855	1925	569	1047
DO[d]	mg/L	--	0.764	--	0.2	0.552
ORP[d]	mV	-37	156	-220	19	-22
pH[d]	s.u.	7.26	7.12	7.32	7.91	7.27
Temperature[d]	C	16.6	14.3	10.9	9.6	11.7
Turbidity[d]	NTU	>1000	1.43	3.5	27.7	8.14
Common Ions[e]						
Ca	mg/L	106	--	--	20.3	52.5
Chloride[c]	mg/L	124	--	--	--	32.0
Fluoride[c]	µg/L	1100	--	--	--	678
Hardness	mg/L	382	--	--	70.3	177
K	mg/L	10.5	--	--	12.9	10.5
Mg	mg/L	28.6	--	--	4.76	11.1
Na	mg/L	248	--	--	59.3	105
NH_4[c]	µg/L	--	--	--	--	495
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	576
SO_4[c]	mg/L	375	--	--	--	90.3
Metals[e]						
As	µg/L	0.78	0.47	0.87	0.50U	2.3
Fe	µg/L	81.8	--	68	315	1120
Mn	µg/L	496	--	526	142	435
Mo	µg/L	41.7	35.5	20.7	10.7	13.2
Se	µg/L	0.52	2.4	0.1U	0.3U	0.3U
U	µg/L	18.3	7.1	4.4	1.3	2.3
V	µg/L	1.2U	2.2	1.4U	1.1	0.32
Radiological						
U	µg/L	18.3	7.1	4.4	1.3	2.3

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- TW-10[a]

Analyte	Unit	08/15/00	11/02/00	01/23/01	04/16/01	07/10/01
Field Measurements						
Alkalinity[c]	mg/L	85	64	68	99	93
Conductivity[d]	µmhos/cm	3720	2180	2180	2250	2140
DO[d]	mg/L	0.6	0.931	1.5	1.8	0.193
ORP[d]	mV	-154	54	-49	-28	-127
pH[d]	s.u.	7.95	7.18	7.71	7.6	7.09
Temperature[d]	C	16.6	14.2	10.1	9.7	12.9
Turbidity[d]	NTU	11.9	1.28	7.05	1.45	2.7
Common Ions[e]						
Ca	mg/L	--	106	--	109	141
Chloride[c]	mg/L	--	--	--	--	153
Fluoride[c]	µg/L	--	--	--	--	97.9
Hardness	mg/L	--	511	--	543	643
K	mg/L	--	16.8	--	13.5	14.2
Mg	mg/L	--	59.9	--	65.8	70.6
Na	mg/L	--	293	--	217	258
NH_4[c]	µg/L	--	--	--	--	3880
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	509
SO_4[c]	mg/L	--	--	--	--	795
Metals[e]						
As	µg/L	9.4	2	3.3	0.5U	1.5
Fe	µg/L	--	243	175	86.5	10
Mn	µg/L	--	2580	1420	1550	1000
Mo	µg/L	14	12.7	7.6	5.8	9.6
Se	µg/L	0.1U	0.1U	0.1U	0.3U	0.3U
U	µg/L	2.3	0.1U	3.7	5	5.6
V	µg/L	1.9	6.8	4.6	14.5	23.4
Radiological						
U	µg/L	2.3	0.1U	3.7	5	5. 6

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]*Uranium activity is below detection limits.*

Alluvial Ground Water -- Downgradient -- TW-11[a]

Analyte	Unit	08/16/00	10/17/00	01/24/01	04/16/01	07/10/01
Field Measurements						
Alkalinity[c]	mg/L	30	37	46	99	189
Conductivity[d]	µmhos/cm	3560	2200	2060	2070	2100
DO[d]	mg/L	0.22	0.2	0	0.568	0.077
ORP[d]	mV	-62	-289	-321	-204	-171
pH[d]	s.u.	9.18	9.19	8.3	8.71	6.83
Temperature[d]	C	17.5	15.6	9.6	10.7	11.7
Turbidity[d]	NTU	2.96	5.37	4.84	3.5	1.47
Common Ions[e]						
Ca	mg/L	--	--	--	102	157
Chloride[c]	mg/L	--	--	--	--	94.4
Fluoride[c]	µg/L	--	--	--	--	172
Hardness	mg/L	--	--	--	468	614
K	mg/L	--	--	--	17.0	19.6
Mg	mg/L	--	--	--	51.7	54.0
Na	mg/L	--	--	--	218	219
NH_4[c]	µg/L	--	--	--	--	2460
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	4.7UJ
SO_4[c]	mg/L	--	--	--	--	754
Metals[e]						
As	µg/L	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	--	--	6960	13700	28200
Mn	µg/L	--	--	245	365	451
Mo	µg/L	3.5	8.2	4.2	3.6	4.8
Se	µg/L	0.1U	0.1U	0.12	7.9	7.4
U	µg/L	0.1U	0.10U	0.1U	0.1U	0.1U
V	µg/L	1.2U	1.2U	1.4U	0.4U	0.3U
Radiological						
U	µg/L	0.1U	0.10U	0.1U	0.1U	0.1U

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]*Uranium activity is below detection limits.*

Alluvial Ground Water -- Downgradient -- TW-12[a]

Analyte	Unit	08/16/00	10/17/00	01/23/01	04/17/01	07/10/01
Field Measurements						
Alkalinity[c]	mg/L	72	180	268	249	300
Conductivity[d]	µmhos/cm	2150	2330	2480	2370	2290
DO[d]	mg/L	0.41	0.19	0	0.594	0.202
ORP[d]	mV	-267	-257	-166	-58	-248
pH[d]	s.u.	7.85	7.99	7.33	7.28	7.32
Temperature[d]	C	16	16	9	10	13.2
Turbidity[d]	NTU	5.77	2.84	8.02	7.41	11
Common Ions[e]						
Ca	mg/L	--	--	--	181	205
Chloride[c]	mg/L	--	--	--	--	119
Fluoride[c]	µg/L	--	--	--	--	233
Hardness	mg/L	--	--	--	699	769
K	mg/L	--	--	--	17.6	20.5
Mg	mg/L	--	--	--	60.0	62.4
Na	mg/L	--	--	--	228	241
NH_4[c]	µg/L	--	--	--	--	3670
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	20
SO_4[c]	mg/L	--	--	--	--	810
Metals[e]						
As	µg/L	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	--	--	43900	45600	49300
Mn	µg/L	--	--	622	562	496
Mo	µg/L	1.5	0.3U	8.7	17.6	8.3
Se	µg/L	0.1U	4	5.2	65.5	24.5
U	µg/L	0.10U	0.10U	0.1U	0.10U	0.1U
V	µg/L	1.2U	1.2U	1.4U	0.4U	0.3U
Radiological						
U	µg/L	0.10U	0.10U	0.1U	0.10U	0.1U

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]*Uranium activity is below detection limits.*

Alluvial Ground Water -- Downgradient -- TW-13[a]

Analyte	Unit	08/16/00	10/18/00	01/23/01	04/17/01	07/10/01
Field Measurements						
Alkalinity[c]	mg/L	45	42	33	67	231
Conductivity[d]	µmhos/cm	2970	1844	1986	2020	2440
DO[d]	mg/L	0.26	0.586	0	0.798	0.265
ORP[d]	mV	67	-100	-151	-54	-313
pH[d]	s.u.	9.44	9.55	9.58	9.4	7.53
Temperature[d]	C	16.5	14.7	10.6	9.3	13.2
Turbidity[d]	NTU	1.84	3.31	4.51	2.39	5.37
Common Ions[e]						
Ca	mg/L	--	--	--	74.4	207
Chloride[c]	mg/L	--	--	--	--	148
Fluoride[c]	µg/L	--	--	--	--	70.6
Hardness	mg/L	--	--	--	454	836
K	mg/L	--	--	--	13.2	16.3
Mg	mg/L	--	--	--	65.2	77.4
Na	mg/L	--	--	--	224	266
NH_4[c]	µg/L	--	--	--	--	1180
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	17.4
SO_4[c]	mg/L	--	--	--	--	884
Metals[e]						
As	µg/L	0.3U	0.2U	0.2U	0.5U	0.74
Fe	µg/L	--	--	105	136	42700
Mn	µg/L	--	--	24.6	38.8	636
Mo	µg/L	4.7	9.3	11.1	17J	2.9U
Se	µg/L	0.1U	0.1U	0.1U	0.3U	1.2
U	µg/L	0.10U	0.10U	0.1U	0.1U	0.1U
V	µg/L	1.2U	2.1	1.4U	0.4U	0.3U
Radiological						
U	µg/L	0.10U	0.10U	0.1U	0.1U	0.1U

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Alluvial Ground Water -- Downgradient -- TW-14[a]

Analyte	Unit	08/16/00	10/18/00	01/24/01	04/16/01	07/10/01
Field Measurements						
Alkalinity[c]	mg/L	33	42	22	60	24
Conductivity[d]	µmhos/cm	1920	1955	1901	2120	2080
DO[d]	mg/L	0.12	0.626	0.6	0.436	0.162
ORP[d]	mV	-354	-252	-273	-210	-355
pH[d]	s.u.	9.44	9.19	9.68	8.84	9.26
Temperature[d]	C	14.9	15.7	9.8	9.8	13.2
Turbidity[d]	NTU	6.77	1.85	1.06	4.64	6.64
Common Ions[e]						
Ca	mg/L	--	--	--	65.2	124
Chloride[c]	mg/L	--	--	--	--	154
Fluoride[c]	µg/L	--	--	--	--	481
Hardness	mg/L	--	--	--	432	586
K	mg/L	--	--	--	12.4	15.6
Mg	mg/L	--	--	--	65.3	67.0
Na	mg/L	--	--	--	221	263
NH_4[c]	µg/L	--	--	--	--	826
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	31
SO_4[c]	mg/L	--	--	--	--	815
Metals[e]						
As	µg/L	0.3U	0.2U	0.2U	0.5U	0.5U
Fe	µg/L	--	--	2100	495	190
Mn	µg/L	--	--	215	123	66.1
Mo	µg/L	8.1	12.2	4.1	7.1	6.2
Se	µg/L	0.1U	0.1U	0.12	0.3U	0.3U
U	µg/L	0.1U	0.10U	0.1U	0.1U	0.1U
V	µg/L	1.2U	1.3	1.4U	0.4U	0.3U
Radiological						
U	µg/L	0.1U	0.10U	0.1U	0.1U	0.1U

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Section C4.0

Bedrock Ground Water Analytical Results

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Bedrock Ground Waters -- Upgradient -- 92-06[a]

Analyte	Unit	November 1992 - December 1996[b]									
		Minimum	Maximum	Average	Median	FOD	10/13/97	10/08/98	10/13/99	10/30/00	10/10/01
Field Measurements											
Alkalinity[c]	mg/L	130	258	199	205	10/10	191	183	193	189	182
Conductivity[d]	µmhos/cm	371	562	534	553	10/10	566	652	560	560	560
DO[d]	mg/L	3.82	6.17	5	4.96	10/10	--	--	0.12	1.4	--
ORP[d]	mV	0.50	223	63.9	52	9/9	--	1	-11	-51	-46
pH[d]	s.u.	7.06	7.86	7.46	7.46	9/9	7.61	6.85	--	7.24	7.52
Temperature[d]	C	9.5	10.8	10	10	10/10	9.8	11.7	11.6	11.3	11.6
Turbidity[d]	NTU	0.46	9.56	2.27	1.29	10/10	3.61	4.42	1.69	0.84	4.3
Common Ions[e]											
Ca	mg/L	68.0	71.7	69.6	69.6	11/11	72.6	68.9	68.5	72.8	69.3
Chloride[c]	mg/L	1.80	2.00	1.87	1.85	11/11	2.12	0.0160U	2.04	2.15	2.44
Fluoride[c]	µg/L	107	156	125	125	11/11	136	11.0UJ	113	124	242
Hardness	mg/L	213	223	217	216	11/11	222	212	212	225	214
K	mg/L	1.16J	2.86J	1.83	1.84	11/11	1.78	1.96J	1.84	1.98	1.81
Mg	mg/L	9.37	10.8	10.5	10.5	11/11	9.85	9.82	9.83	10.5	9.99
Na	mg/L	28.3	32.1J	30.6	30.7	11/11	30.6	30.5	30.3	32.1	31.4
NO_3+NO_2 as N[c]	µg/L	7.0U	69.3	25	20.3	4/6	26.2	28.9	12U	32.4UJ	358
SO_4[c]	mg/L	88.1	93.4	89.7	89.7	11/11	89.5	12.5	90.7	91.0	96.8
TDS[d]	mg/L	320	438	367	355	11/11	340	337	387	340	--
Metals[e]											
As	µg/L	1.0U	4.4U	1.81	1.5	4/11	3.3J	1.0U	0.42	0.28	0.6U
Fe	µg/L	54.8J	312	120	96.3	9/9	--	--	146	109	84
Mn	µg/L	398	445	425	427	11/11	412	375	402	433	406
Mo	µg/L	1.0U	27.0U	4.23	2.2	7/11	2.5	2.5J	0.8U	1.9	1.9U
Se	µg/L	1.0U	3.3UJ	1.11	1	1/11	2.2U	1.0U	0.1U	0.1U	0.3U
U	µg/L	1.0U	1.0U	0.5	0.5	0/9	1.1U	1.0U	0.2U	0.1U	0.1U
V	µg/L	1.1J	8.0U	2.72	2.5	1/11	1U	2.0U	1U	1.3U	0.3U
Radiological											
Alpha[c,f]	pCi/L	4.5U	30.0U	6.68	5.95	0/11	3.0U	4.1U	4.6UJ	7.6U	11.4UJ
Alpha-U[c,g]	pCi/L	4.5U	30.0U	6.68	5.95	0/11	3.0U	4.1U	4.6UJ	7.6U	11.4UJ
Beta[c]	pCi/L	5.7U	30.0U	5.93	4.95	0/11	3.4	3.4U	5.0	7.4U	13.1
U	µg/L	1.0U	1.0U	0.5	0.5	0/9	1.1U	1.0U	0.2U	0.1U	0.1U
U-234[c]	pCi/L	0.10U	1.8	0.54	0.32	6/11	0.40U	2.0U	0.97	0.52U	--
U-235[c]	pCi/L	0.040U	1.0U	0.121	0.075	0/9	1.1U	0.40U	--	--	--
U-238[c]	pCi/L	0.050U	1.0U	0.221	0.15	3/11	1.1U	0.47J	0.33	0.10U	--

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Bedrock Ground Waters -- Upgradient -- 92-13[a]

Analyte	Unit	November 1992 - December 1996[b]					10/20/97	10/13/98	10/20/99	10/30/00	10/10/01
		Minimum	Maximum	Average	Median	FOD					
Field Measurements											
Alkalinity[c]	mg/L	214	325	282	292	6/6	300	300	328	275	271
Conductivity[d]	µmhos/cm	678	854	745	726	6/6	690	536	692	649	592
ORP[d]	mV	--	--	--	--	--	155	152	--	109	37
pH[d]	s.u.	9.06	10.99	9.93	9.72	6/6	9.48	8.54	--	9.64	9.48
Temperature[d]	C	9.2	10.6	9.85	9.75	6/6	10.0	10.2	11.9	11.2	11.6
Turbidity[d]	NTU	66.0	>1000	724	1000	5/5	7.63	10.14	896	5.66	11.9
Common Ions[e]											
Ca	mg/L	10.8	10.8	10.8	10.8	1/1	8.93	11.4	11.3	7.06	6.15
Chloride[c]	mg/L	4.18	5.58	4.7	4.57	6/6	4.60	4.54J	4.74	4.50	5.06
Fluoride[c]	µg/L	925	2400	1540	1510	6/6	1120	852J	804	1220	1190
Hardness	mg/L	33.4J	33.4J	33.4	33.4	1/1	31.4	41.2J	42.8	25.2	22.7
K	mg/L	2.67J	2.67J	2.67	2.67	1/1	2.55	2.96J	3.11	2.35	2.20
Mg	mg/L	1.55J	1.55J	1.55	1.55	1/1	2.20	3.10J	3.53	1.85	1.78
Na	mg/L	152	152	152	152	1/1	141	133	138	145	135
NO_3+NO_2 as N[c]	µg/L	25.4	1340	524	376	6/6	1550	714	872	2710J	2610
SO_4[c]	mg/L	18.9	62.5	39.4	37.7	6/6	25.8	14.2J	14.0	36.3	40.7
TDS[d]	mg/L	412	836	604	632	6/6	420	355	435	458	--
Metals[e]											
As	µg/L	25.1	48.3J	36.7	36.7	2/2	36.7J	18.7	16.9	40.6	37.6
Fe	µg/L	1440	1440	1440	1440	1/1	--	--	17.9	11.7U	34
Mn	µg/L	51.6	51.6	51.6	51.6	1/1	7.3	5.3J	9.3	2U	1.9
Mo	µg/L	38.0J	146	92	92	2/2	50.7	26.7	26.8	75.6	70.7
Se	µg/L	1.0U	2.0U	0.75	0.75	0/2	3.4	1.0U	0.52	2.2	1.8
U	µg/L	1.8J	4.5J	3.15	3.15	2/2	2.3	1.1J	2.6	2.2	1.8
V	µg/L	4.0U	18.9J	10.5	10.5	1/2	3.6J	2.0U	2.3	2.3	3.9
Radiological											
Alpha[c,f]	pCi/L	6.3	23.0U	8.66	8.33	1/6	10.2	8.3	5.3UJ	9.0U	6.8J
Alpha-U[c,g]	pCi/L	0[h]	23.0U	7.61	8.33	1/6	0[h]	1.8	5.3UJ	9.0U	5.6J
Beta[c]	pCi/L	5.8U	20.0U	7.85	9.6	0/6	3.4U	6.8U	5.6	7.5U	4.7U
U	µg/L	1.8J	4.5J	3.15	3.15	2/2	2.3	1.1J	2.6	2.2	1.8
U-234[c]	pCi/L	0.60U	5.8	3.68	4.25	5/6	12.3	5.7	5.3	6.5	--
U-235[c]	pCi/L	0.070U	1.0U	0.153	0.0975	0/6	1.1U	0.40U	--	--	--
U-238[c]	pCi/L	0.59	2.1	1.2	1.2	5/6	1.1U	0.77J	0.73	0.88	--

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UJ = Not detected, associated value is estimated.
[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Bedrock Ground Waters -- On-Site -- 31SW93-200-1[a]

Analyte	Unit	November 1992 - December 1996[b]					10/16/97	10/07/98	10/22/99
		Minimum	Maximum	Average	Median	FOD			
Field Measurements									
Alkalinity[c]	mg/L	195	195	195	195	1/1	207	149	209
Conductivity[d]	µmhos/cm	578	578	578	578	1/1	599	514	585
DO[d]	mg/L	--	--	--	--	--	--	--	0.44
ORP[d]	mV	--	--	--	--	--	--	27	4
pH[d]	s.u.	7.68	7.68	7.68	7.68	1/1	7.41	6.88	7.31
Temperature[d]	C	12.9	12.9	12.9	12.9	1/1	14.7	13.4	13.1
Turbidity[d]	NTU	--	--	--	--	--	1.42	2.54	3.49
Common Ions[e]									
Ca	mg/L	64.2	64.2	64.2	64.2	1/1	65.7	55.2	62.4
Chloride[c]	mg/L	2.38	2.38	2.38	2.38	1/1	2.49	2.37	2.53
Fluoride[c]	µg/L	149	149	149	149	1/1	145	173	139
Hardness	mg/L	209	209	209	209	1/1	210	179	202
K	mg/L	2.85J	2.85J	2.85	2.85	1/1	2.33	2.21J	2.40
Mg	mg/L	11.9	11.9	11.9	11.9	1/1	11.1	10.1	11.1
Na	mg/L	46.9	46.9	46.9	46.9	1/1	45.2	41.6	45.7
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	30.6	20.1	12.0U
SO_4[c]	mg/L	106	106	106	106	1/1	96.0	2680	102
TDS[d]	mg/L	514	514	514	514	1/1	363	335	365
Metals[e]									
As	µg/L	4.0UJ	4.0UJ	2	2	0/1	3.1J	1.8J	0.4U
Fe	µg/L	267	267	267	267	1/1	--	--	9.0U
Mn	µg/L	--	--	--	--	--	286	307	350
Mo	µg/L	31.8J	31.8J	31.8	31.8	1/1	2.4	3.2J	0.8U
Se	µg/L	2.0UJ	2.0UJ	1	1	0/1	2.2U	1.0U	0.1U
U	µg/L	2.5J	2.5J	2.5	2.5	1/1	1.1U	1.0U	0.2U
V	µg/L	5.0U	5.0U	2.5	2.5	0/1	1.6J	2.0U	1.5
Radiological									
Alpha[c,f]	pCi/L	--	--	--	--	--	3.1U	3.7UJ	5.0UJ
Alpha-U[c,g]	pCi/L	--	--	--	--	--	3.1U	3.7UJ	5.0UJ
Beta[c]	pCi/L	--	--	--	--	--	3.9	3.4U	4.8U
U	µg/L	2.5J	2.5J	2.5	2.5	1/1	1.1U	1.0U	0.2U
U-234[c]	pCi/L	--	--	--	--	--	1.0U	2.0U	0.80U
U-235[c]	pCi/L	--	--	--	--	--	1.1U	0.40U	--
U-238[c]	pCi/L	--	--	--	--	--	1.1U	0.40U	0.12U

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UJ = Not detected, associated value is estimated.
[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]*Metals and cations are from filtered samples* October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Bedrock Ground Waters -- On-Site -- 31SW93-200-2[a]

Analyte	Unit	November 1992 - December 1996[b]					10/16/97	10/07/98	10/27/99
		Minimum	Maximum	Average	Median	FOD			
Field Measurements									
Alkalinity[c]	mg/L	483	483	483	483	1/1	430	149	--
Conductivity[d]	µmhos/cm	944	944	944	944	1/1	825	823	777
DO[d]	mg/L	--	--	--	--	--	--	--	0.55
ORP[d]	mV	--	--	--	--	--	--	-49	-40
pH[d]	s.u.	7.67	7.67	7.67	7.67	1/1	8.35	6.96	7.33
Temperature[d]	C	11.5	11.5	11.5	11.5	1/1	11.6	13.8	13.2
Turbidity[d]	NTU	--	--	--	--	--	106	55.3	27.1
Common Ions[e]									
Ca	mg/L	19.6	19.6	19.6	19.6	1/1	20.3	19.6	21.6
Chloride[c]	mg/L	5.64	5.64	5.64	5.64	1/1	6.07	6.57	5.64
Fluoride[c]	µg/L	945	945	945	945	1/1	1060	1110	928
Hardness	mg/L	75.3	75.3	75.3	75.3	1/1	75.2	74.4	80.9
K	mg/L	3.10J	3.10J	3.1	3.1	1/1	3.21	3.19J	3.25
Mg	mg/L	6.40	6.40	6.4	6.4	1/1	5.96	6.19	6.56
Na	mg/L	191	191	191	191	1/1	184	176	189
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	15.2	7.4	50.7
SO_4[c]	mg/L	9.36	9.36	9.36	9.36	1/1	17.7	16.9	10.8
TDS[d]	mg/L	998	998	998	998	1/1	502	532	525
Metals[e]									
As	µg/L	4.5J	4.5J	4.5	4.5	1/1	8.5J	3.6J	1.5
Fe	µg/L	774	774	774	774	1/1	--	--	9.0U
Mn	µg/L	--	--	--	--	--	102	75.0	81.7
Mo	µg/L	29.0U	29.0U	14.5	14.5	0/1	12.5	7.8J	4.8
Se	µg/L	2.0UJ	2.0UJ	1	1	0/1	2.2U	1.0U	0.1U
U	µg/L	6.9	6.9	6.9	6.9	1/1	1.1U	1.0U	0.26
V	µg/L	5.0U	5.0U	2.5	2.5	0/1	1.1U	2.0U	1U
Radiological									
Alpha[c,f]	pCi/L	--	--	--	--	--	4.3U	6.8UJ	6.2UJ
Alpha-U[c,g]	pCi/L	--	--	--	--	--	4.3U	6.8UJ	6.2UJ
Beta[c]	pCi/L	--	--	--	--	--	4.0U	6.8U	5.6U
U	µg/L	6.9	6.9	6.9	6.9	1/1	1.1U	1.0U	0.26
U-234[c]	pCi/L	--	--	--	--	--	1.0U	2.0U	0.90
U-235[c]	pCi/L	--	--	--	--	--	1.1U	0.40U	--
U-238[c]	pCi/L	--	--	--	--	--	1.1U	0.45J	0.17

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[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Bedrock Ground Waters -- On-Site -- 31SW93-200-3[a]

Analyte	Unit	November 1992 - December 1996[b]					10/16/97	10/07/98	10/27/99
		Minimum	Maximum	Average	Median	FOD			
Field Measurements									
Alkalinity[c]	mg/L	191	191	191	191	1/1	416	354	386
Conductivity[d]	µmhos/cm	5140	5140	5140	5140	1/1	5300	5204	3950
ORP[d]	mV	--	--	--	--	--	--	119	103
pH[d]	s.u.	7.93	7.93	7.93	7.93	1/1	6.92	6.97	6.72
Temperature[d]	C	9.3	9.3	9.3	9.3	1/1	10.4	10.6	10.8
Turbidity[d]	NTU	--	--	--	--	--	79.1	23.1	33.7
Common Ions[e]									
Ca	mg/L	125	125	125	125	1/1	251	369	281
Chloride[c]	mg/L	95.1	95.1	95.1	95.1	1/1	72.1	114	116
Fluoride[c]	µg/L	963	963	963	963	1/1	641	562J	568
Hardness	mg/L	480	480	480	480	1/1	950	1430	1090
K	mg/L	18.0	18.0	18	18	1/1	17.2	18.6	19.5
Mg	mg/L	40.8	40.8	40.8	40.8	1/1	78.4	124	95.2
Na	mg/L	1000	1000	1000	1000	1/1	985	806	909
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	45.3	5120	3320
SO_4[c]	mg/L	2240	2240	2240	2240	1/1	2370	2380	2360
TDS[d]	mg/L	4020	4020	4020	4020	1/1	4260	4330	4330
Metals[e]									
As	µg/L	20.0UJ	20.0UJ	10	10	0/1	3.6J	1.0U	0.4U
Fe	µg/L	4730	4730	4730	4730	1/1	--	--	9U
Mn	µg/L	--	--	--	--	--	264	149	100
Mo	µg/L	60.2	60.2	60.2	60.2	1/1	4.8	1.8J	0.8U
Se	µg/L	12.5J	12.5J	12.5	12.5	1/1	2.2U	1.8J	0.63
U	µg/L	21.5	21.5	21.5	21.5	1/1	1.7	3.4J	2.3
V	µg/L	13.7J	13.7J	13.7	13.7	1/1	1.1U	2.0U	1U
Radiological									
Alpha[c,f]	pCi/L	--	--	--	--	--	35.8U	40.4U	13.3UJ
Alpha-U[c,g]	pCi/L	--	--	--	--	--	35.8U	40.4U	13.3UJ
Beta[c]	pCi/L	--	--	--	--	--	36.7U	44.8U	31.0
U	µg/L	21.5	21.5	21.5	21.5	1/1	1.7	3.4J	2.3
U-234[c]	pCi/L	--	--	--	--	--	1.0U	4.7	2.0U
U-235[c]	pCi/L	--	--	--	--	--	1.1U	0.40U	--
U-238[c]	pCi/L	--	--	--	--	--	1.1U	1.4J	0.94

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[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]*Metals and cations are from filtered samples October 1997 through October 2002.*
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Bedrock Ground Waters -- On-Site -- 31SW93-200-4[a]

Analyte	Unit	10/16/97	10/12/98	10/27/99	10/10/01	10/10/02
Field Measurements						
Alkalinity[c]	mg/L	421	319	296	167	333
Conductivity[d]	µmhos/cm	4980	4920	3910	3960	4705
ORP[d]	mV	--	-8	17	19	--
pH[d]	s.u.	6.72	6.71	6.61	7.21	6.76
Temperature[d]	C	11.3	11.4	12.4	13.4	14.41
Turbidity[d]	NTU	>1000	155	30.8	2.34	16.4
Common Ions[e]						
Ca	mg/L	512	464	521	538	464
Chloride[c]	mg/L	103	20.8	158	285	177
Fluoride[c]	µg/L	256	57.8J	846	425	126U
Hardness	mg/L	1960	1780	1920	1930	1790
K	mg/L	21.2	20.4	18.8	17.5	22.2
Mg	mg/L	165	151	151	142	154
Na	mg/L	567	550	404	310	695
NO_3+NO_2 as N[c]	µg/L	568	1240	7950	12600	1030
SO_4[c]	mg/L	2350	476	2140	2140	2700
TDS[d]	mg/L	4410	4170	3710	--	--
Metals[e]						
As	µg/L	5.2J	1.0U	0.4U	0.6U	2.3
Fe	µg/L	--	--	122	198	4550
Mn	µg/L	715	592	25	94.8	827
Mo	µg/L	5.6	3.2J	0.8U	1.9U	1.7U
Se	µg/L	2.2U	2.4J	4.1	8.6	0.1U
U	µg/L	19.2	32.4	9.8	11.5	44.8
V	µg/L	1.1U	2.0U	1U	0.35	0.3U
Radiological						
Alpha[c,f]	pCi/L	57.8	49.8U	16.5J	17.0	18.9
Alpha-U[c,g]	pCi/L	42.5	49.8U	12.7J	9.1	0[h]
Beta[c]	pCi/L	47.0	66.8U	31.9	16.9	26.3
U	µg/L	19.2	32.4	9.8	11.5	44.8
U-234[c]	pCi/L	8.7	14.7	2.0U	--	--
U-235[c]	pCi/L	1.1U	0.45J	--	--	--
U-238[c]	pCi/L	6.6	12.5	3.8	--	--

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UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Bedrock Ground Waters -- On-Site -- 93-01[a]

Analyte	Unit	November 1992 - December 1996[b]										
		Minimum	Maximum	Average	Median	FOD	10/21/97	10/08/98	10/27/99	11/01/00	10/09/01	10/09/02
Field Measurements												
Alkalinity[c]	mg/L	172	232	206	203	7/7	213	195	207	700	187	375
Conductivity[d]	*µmhos/cm*	*579*	*644*	*600*	*596*	*7/7*	*607*	*660*	*576*	*584*	*5860*	*691*
DO[d]	mg/L	0.20	2.00	0.934	0.86	7/7	--	--	0.74	5.5	--	--
ORP[d]	mV	-117	95	22	52.5	6/6	--	21	6	83	49	--
pH[d]	s.u.	6.96	7.52	7.4	7.47	7/7	7.35	6.75	7.28	7.21	7.58	7.61
Temperature[d]	C	9.7	11.3	10.3	10.1	7/7	10.2	11.2	10.2	9.5	9.9	9.53
Turbidity[d]	NTU	0.47	3.69	1.62	1.22	6/6	4.10	1.43	4.80	2.18	18.6	4.23
Common Ions[e]												
Ca	mg/L	65.3	70.4	68.1	68.9	7/7	68.1	62.9	70.8	67.6	67.0	27.6
Chloride[c]	mg/L	2.10	2.39	2.24	2.22	7/7	2.78	2.82	2.35	2.42	2.72	5.55
Fluoride[c]	µg/L	82.1	250	151	138	7/7	191	571	122	137	169	340
Hardness	mg/L	204	223	217	218	7/7	214	198	222	214	211	98.2
K	mg/L	*1.24J*	*4.53J*	*2.33*	*2.21*	*7/7*	*2.18*	*2.17J*	*2.06*	*2.23*	*1.99*	*2.84*
Mg	mg/L	10.0	11.9	11.3	11.4	7/7	10.6	9.98	11.1	10.9	10.5	7.12
Na	mg/L	39.2	45.6	41.4	41.2	7/7	47.3	39.6	39.7	38.2	38.2	123
NO_3+NO_2 as N[c]	µg/L	7.0U	40.1	20.9	20.4	6/7	22.4	4.0U	38.8	32.4U	88.7	12.7
SO_4[c]	mg/L	94.1	118	102	101	7/7	94.5	105	96.0	102	110	5.35
TDS[d]	mg/L	345	534	436	440	7/7	355	370	363	380	--	--
Metals[e]												
As	µg/L	1.0U	6.4	3.8	4.1	5/7	5.0J	1.9J	1.5	1	0.6U	2.3
Fe	µg/L	5.0U	159	67.3	53.8	3/4	--	--	9.0U	46.8	48.2	0.8U
Mn	µg/L	354	388	375	379	7/7	358	336	387	393	372	89.7
Mo	µg/L	0.56U	29.3J	7.97	2.1	4/7	1.6	1.7J	0.8U	1.3	1.9U	1.7U
Se	µg/L	1.0U	2.2U	0.743	0.55	0/7	2.2U	1.0U	0.14	0.1U	0.3U	0.1U
U	µg/L	0.52J	13.7	3.14	0.5	2/5	1.1U	1.0U	0.25	0.1U	0.1U	0.2
V	µg/L	2.6J	6.7U	2.76	2.6	1/7	1.1U	3.1J	1U	1.3U	0.99	11
Radiological												
Alpha[c,f]	pCi/L	6.0	25.9	9.02	7.3	2/7	3.0U	4.4UJ	4.7UJ	7.6U	4.0UJ	5.3
Alpha-U[c,g]	*pCi/L*	*0.70*	*17.0U*	*4.79*	*4.4*	*2/7*	*3.0U*	*4.4UJ*	*4.7UJ*	*7.6U*	*4.0UJ*	*5.2*
Beta[c]	pCi/L	5.8U	13.1U	5.01	5	0/7	2.8U	4.5U	4.8U	7.4U	3.8U	5.8
U	µg/L	0.52J	13.7	3.14	0.5	2/5	1.1U	1.0U	0.25	0.1U	0.1U	0.2
U-234[c]	pCi/L	0.36U	22.8	4.73	1.9	5/7	1.0U	2.0U	0.80U	0.52U	--	--
U-235[c]	pCi/L	0.060U	1.0U	0.142	0.08	0/7	1.1U	0.40U	--	--	--	--
U-238[c]	pCi/L	0.060U	1.5	0.344	0.15	1/7	1.1U	0.40U	0.17	0.10U	--	--

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[b]Summary of data presented in 1998 RI.
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[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Bedrock Ground Waters -- Cross Gradient -- 31NE93-205[a]

Analyte	Unit	November 1992 - December 1996[b]					10/23/97	10/07/98	10/21/99	10/31/00	10/15/01
		Minimum	Maximum	Average	Median	FOD					
Field Measurements											
Alkalinity[c]	mg/L	144	189	160	155	5/5	169	143	153	--	185
Conductivity[d]	µmhos/cm	1010	1215	1150	1200	5/5	1018	765	912	589	846
DO[d]	mg/L	0.08	0.67	0.324	0.26	5/5	--	--	0.44	0.3	--
ORP[d]	mV	-188	16	-81.3	-76.5	4/4	--	-123	-75	33	-57
pH[d]	s.u.	6.36	6.79	6.56	6.61	5/5	6.76	6.12	6.45	6.85	6.85
Temperature[d]	C	13.1	14.3	13.7	13.8	5/5	15.0	14.4	13.3	13.2	15.9
Turbidity[d]	NTU	0.47	1.95	0.98	0.81	5/5	0.51	0.71	0.65	1.36	1.01
Common Ions[e]											
Ca	mg/L	88.0	107	98.5	99.3	5/5	85.5	77.6	69.8	72.6	63.1
Chloride[c]	mg/L	2.45	2.51	2.48	2.48	5/5	2.97	3.27	2.64	2.76	2.88
Fluoride[c]	µg/L	48.4	103	81.8	80.5	5/5	131	98.7	88.1	99.5	188
Hardness	mg/L	319	404	367	368	5/5	312	289	262	268	234
K	mg/L	4.69J	5.60	5.11	5.11	5/5	4.53	4.54J	4.56	4.31	3.85
Mg	mg/L	24.2	33.3	29.4	29.2	5/5	23.9	23.2	21.4	21.1	18.5
Na	mg/L	92.1	116	105	105	5/5	96.1	93.1	90.8	89.4	81.3
NO_3+NO_2 as N[c]	µg/L	8.9	27.3	14.6	10.3	4/5	19.9	11.3	12U	32.4U	515
SO_4[c]	mg/L	371	457	422	416	5/5	324	323	307	289	289
TDS[d]	mg/L	738	970	881	964	5/5	700	680	637	592	--
Metals[e]											
As	µg/L	2.0U	51.4	30.8	34.5	4/5	26.9J	23.1J	26.5	25.5	32.7
Fe	µg/L	845	1660	1240	1210	3/3	--	--	729	627	584
Mn	µg/L	857	1020	955	951	5/5	813	730	720	691	652
Mo	µg/L	1.3J	27.0U	5.18	1.8	3/5	2.0	1.6J	0.8U	0.63	1.9U
Se	µg/L	1.0U	2.2U	0.73	0.55	0/5	2.2U	1.0U	0.1U	0.1U	0.52
U	µg/L	1.0U	1.0U	0.5	0.5	0/3	1.1U	1.0U	0.2U	0.27	0.69
V	µg/L	1.1U	6.7U	2.28	2.5	0/5	1.1U	2.0U	1U	1.3U	0.3U
Radiological											
Alpha[c,f]	pCi/L	7.7U	36.0U	11.8	14	1/5	6.7	6.7UJ	6.2UJ	9.1U	3.8
Alpha-U[c,g]	pCi/L	7.7U	36.0U	11.8	14	1/5	6.7[i]	6.7UJ	6.2UJ	9.1U	3.3
Beta[c]	pCi/L	10.4U	33.0U	9.01	6.85	0/5	7.8	6.8U	6.5U	7.5U	6.1
U	µg/L	1.0U	1.0U	0.5	0.5	0/3	1.1U	1.0U	0.2U	0.27	0.69
U-234[c]	pCi/L	0.60U	2.3	1.44	1.8	4/5	1.0U	2.5	1.6	1.6	--
U-235[c]	pCi/L	0.060U	1.0U	0.177	0.15	0/5	1.1U	0.40U	--	--	--
U-238[c]	pCi/L	0.070U	1.0U	0.177	0.15	0/5	1.1U	0.66J	0.12U	0.10U	--

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[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Bedrock Ground Waters -- Cross Gradient -- 31SW93-197-2[a]

Analyte	Unit	November 1992 - December 1996[b]					07/26/00	10/19/00
		Minimum	Maximum	Average	Median	FOD		
Field Measurements								
Alkalinity[c]	mg/L	232	232	232	232	1/1	165	172
Conductivity[d]	µmhos/cm	514	514	514	514	1/1	499	497
DO[d]	mg/L	--	--	--	--	--	0.13	0.18
ORP[d]	mV	--	--	--	--	--	-96	-112
pH[d]	s.u.	7.48	7.48	7.48	7.48	1/1	7.31	7.48
Temperature[d]	C	12.4	12.4	12.4	12.4	1/1	14	13
Turbidity[d]	NTU	--	--	--	--	--	1.33	0.77
Common Ions[e]								
Ca	mg/L	58.2	58.2	58.2	58.2	1/1	58.3	58.8
Chloride[c]	mg/L	1.62	1.62	1.62	1.62	1/1	1.99	1.47
Fluoride[c]	µg/L	133	133	133	133	1/1	165	152
Hardness	mg/L	185	185	185	185	1/1	184	186
K	mg/L	1.72J	1.72J	1.72	1.72	1/1	2.05	2.14
Mg	mg/L	9.66	9.66	9.66	9.66	1/1	9.43	9.51
Na	mg/L	32.6	32.6	32.6	32.6	1/1	32.9	31.9
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	32.4U	32.4U
SO_4[c]	mg/L	78.3	78.3	78.3	78.3	1/1	73.1	77.4
TDS[d]	mg/L	394	394	394	394	1/1	323	320
Metals[e]								
As	µg/L	4.0UJ	4.0UJ	2	2	0/1	0.3U	0.2U
Fe	µg/L	209	209	209	209	1/1	272	299
Mn	µg/L	--	--	--	--	--	280	290
Mo	µg/L	29.0U	29.0U	14.5	14.5	0/1	0.3U	2.1
Se	µg/L	2.0UJ	2.0UJ	1	1	0/1	0.1U	0.1U
U	µg/L	1.0U	1.0U	0.5	0.5	0/1	0.10U	0.1U
V	µg/L	5.0U	5.0U	2.5	2.5	0/1	1.3U	1.3U
Radiological								
Alpha[c,f]	pCi/L	--	--	--	--	--	3.3UJ	7.7U
Alpha-U[c,g]	pCi/L	--	--	--	--	--	3.3UJ	7.7U
Beta[c]	pCi/L	--	--	--	--	--	3.8U	7.5U
U	µg/L	1.0U	1.0U	0.5	0.5	0/1	0.10U	0.1U
U-234[c]	pCi/L	--	--	--	--	--	0.30U	0.52U
U-235[c]	pCi/L	--	--	--	--	--	0.19U	--
U-238[c]	pCi/L	--	--	--	--	--	0.15U	0.10U

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UJ = Not detected, associated value is estimated.
[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Bedrock Ground Waters -- Cross Gradient -- 31SW93-197-3[a]

Analyte	Unit	November 1992 - December 1996[b]					07/26/00	10/20/00
		Minimum	Maximum	Average	Median	FOD		
Field Measurements								
Alkalinity[c]	mg/L	300	300	300	300	1/1	1973	--
Conductivity[d]	µmhos/cm	558	558	558	558	1/1	7800	573
DO[d]	mg/L	--	--	--	--	--	2.5	--
ORP[d]	mV	--	--	--	--	--	59	27
pH[d]	s.u.	7.58	7.58	7.58	7.58	1/1	7.62	7.64
Temperature[d]	C	13.3	13.3	13.3	13.3	1/1	16.4	14.2
Turbidity[d]	NTU	--	--	--	--	--	60.4	182
Common Ions[e]								
Ca	mg/L	17.8	17.8	17.8	17.8	1/1	24.8	22.5
Chloride[c]	mg/L	5.11	5.11	5.11	5.11	1/1	6.85	4.55
Fluoride[c]	µg/L	790	790	790	790	1/1	718	641
Hardness	mg/L	73.5	73.5	73.5	73.5	1/1	98.7	90.6
K	mg/L	5.58	5.58	5.58	5.58	1/1	4.33	4.23
Mg	mg/L	7.06	7.06	7.06	7.06	1/1	8.92	8.36
Na	mg/L	121	121	121	121	1/1	146	129
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	32.4U	334
SO_4[c]	mg/L	14.6	14.6	14.6	14.6	1/1	30.6	17.1
TDS[d]	mg/L	2428	2428	2430	2430	1/1	700	505
Metals[e]								
As	µg/L	17.4J	17.4J	17.4	17.4	1/1	2.5	0.64
Fe	µg/L	47800	47800	47800	47800	1/1	17.8	11.7U
Mn	µg/L	--	--	--	--	--	6.9	12.8
Mo	µg/L	34.2J	34.2J	34.2	34.2	1/1	25.8	17
Se	µg/L	2.2UJ	2.2UJ	1.1	1.1	0/1	0.11	2.5
U	µg/L	6.0	6.0	6	6	1/1	2.1	1.5
V	µg/L	57.5	57.5	57.5	57.5	1/1	1.3U	1.3U
Radiological								
Alpha[c,f]	pCi/L	--	--	--	--	--	9.6J	9.0U
Alpha-U[c,g]	pCi/L	--	--	--	--	--	6.3J	9.0U
Beta[c]	pCi/L	--	--	--	--	--	7.7U	7.5U
U	µg/L	6.0	6.0	6	6	1/1	2.1	1.5
U-234[c]	pCi/L	--	--	--	--	--	2.7	0.52U
U-235[c]	pCi/L	--	--	--	--	--	0.080U	--
U-238[c]	pCi/L	--	--	--	--	--	0.58	0.65

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[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Bedrock Ground Waters -- Cross Gradient -- 31SW93-197-4[a]

Analyte	Unit	07/27/00	10/19/00
Field Measurements			
Alkalinity[c]	mg/L	915	--
Conductivity[d]	µmhos/cm	2800	3010
ORP[d]	mV	118	34
pH[d]	s.u.	7.16	7.44
Temperature[d]	C	11.7	10.9
Turbidity[d]	NTU	200	>1000
Common Ions[e]			
Ca	mg/L	54.3	51.7
Chloride[c]	mg/L	27.4	--
Fluoride[c]	µg/L	886	--
Hardness	mg/L	223	209
K	mg/L	9.10	9.26
Mg	mg/L	21.3	19.5
Na	mg/L	618	634
NO_3+NO_2 as N[c]	µg/L	3960J	--
SO_4[c]	mg/L	622	--
TDS[d]	mg/L	2040	--
Metals[e]			
As	µg/L	0.3U	0.2U
Fe	µg/L	13.4	53.3
Mn	µg/L	25.7	28.1
Mo	µg/L	0.3U	4
Se	µg/L	0.26	0.59
U	µg/L	3.9	4.4
V	µg/L	1.3U	1.3
Radiological			
Alpha[c,f]	pCi/L	13.9UJ	--
Alpha-U[c,g]	pCi/L	13.9UJ	--
Beta[c]	pCi/L	14.9U	--
U	µg/L	3.9	4.4
U-234[c]	pCi/L	4.1	--
U-235[c]	pCi/L	0.17U	--
U-238[c]	pCi/L	1.2	--

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Bedrock Ground Waters -- Cross Gradient -- 31SW93-197-5[a]

Analyte	Unit	November 1992 - December 1996[b]					04/24/00	07/26/00	10/19/00
		Minimum	Maximum	Average	Median	FOD			
Field Measurements									
Alkalinity[c]	mg/L	455	455	455	455	1/1	508	496	546
Conductivity[d]	µmhos/cm	2770	2770	2770	2770	1/1	2710	4170	2540
DO[d]	mg/L	--	--	--	--	--	--	5.87	8.8
ORP[d]	mV	--	--	--	--	--	140	194	207
pH[d]	s.u.	6.80	6.80	6.8	6.8	1/1	6.14	6.88	6.71
Temperature[d]	C	10.3	10.3	10.3	10.3	1/1	10.5	11.8	11.4
Turbidity[d]	NTU	--	--	--	--	--	72.1	151	116
Common Ions[e]									
Ca	mg/L	344	344	344	344	2/2	325	317	330
Chloride[c]	mg/L	95.7	97.4	96.6	96.6	2/2	--	92.2	97.4
Fluoride[c]	µg/L	194	194	194	194	2/2	--	345	688
Hardness	mg/L	1130	1130	1130	1130	2/2	1090	1060	1110
K	mg/L	3.64J	4.65J	4.15	4.15	2/2	5.09	4.85	5.09
Mg	mg/L	66.2	66.4	66.3	66.3	2/2	67.9	65.7	68.3
Na	mg/L	231	231	231	231	2/2	258	255	259
NO_3+NO_2 as N[c]	µg/L	--	--	--	--	--	--	1300	1230
SO_4[c]	mg/L	935	938	937	937	2/2	--	928	920
TDS[d]	mg/L	2142	2150	2150	2150	2/2	--	2150	2150
Metals[e]									
As	µg/L	4.0UJ	4.4UJ	2.1	2.1	0/2	0.2U	0.3U	0.2U
Fe	µg/L	138	170	154	154	2/2	7.4U	9.1U	11.7U
Mn	µg/L	--	--	--	--	--	1.4	1.5U	2.8
Mo	µg/L	29.0U	29.0U	14.5	14.5	0/2	0.40U	0.30U	0.3U
Se	µg/L	17.0J	18.5J	17.8	17.8	2/2	13.9	12.5	11.8
U	µg/L	16.8	16.9	16.9	16.9	2/2	23.2	22.2	23.4
V	µg/L	5.0U	5.0U	2.5	2.5	0/2	0.4U	1.3U	1.3U
Radiological									
Alpha[c,f]	pCi/L	--	--	--	--	--	--	14.2U	13.1UJ
Alpha-U[c,g]	pCi/L	--	--	--	--	--	--	14.2U	13.1UJ
Beta[c]	pCi/L	--	--	--	--	--	--	15.0	13.2U
U	µg/L	16.8	16.9	16.9	16.9	2/2	23.2	22.2	23.4
U-234[c]	pCi/L	--	--	--	--	--	16.3	10.1	12.4
U-235[c]	pCi/L	--	--	--	--	--	--	0.42U	--
U-238[c]	pCi/L	--	--	--	--	--	9.2	7.3	9.6

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[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Bedrock Ground Waters -- Cross Gradient -- 95-07[a]

Analyte	Unit	November 1992 - December 1996[b]					10/20/97	10/08/98	10/18/99	10/31/00	10/16/01
		Minimum	Maximum	Average	Median	FOD					
Field Measurements											
Alkalinity[c]	mg/L	1307	1330	1320	1330	3/3	1330	1303	1365	1046	1272
Conductivity[d]	µmhos/cm	2220	2320	2280	2280	4/4	2380	2220	2420	2350	2270
DO[d]	mg/L	0.98	0.98	0.98	0.98	1/1	--	--	--	--	--
ORP[d]	mV	-110	-110	-110	-110	1/1	-74	-150	-113	-85	-105
pH[d]	s.u.	7.67	8.63	8.04	7.93	4/4	7.78	7.10	7.45	7.81	7.6
Temperature[d]	C	10.5	17.8	12.7	11.3	4/4	10.7	13.5	11.1	11.9	14.6
Turbidity[d]	NTU	298	>1000	696	743	4/4	168	91.4	--	476	272
Common Ions[e]											
Ca	mg/L	17.7	17.7	17.7	17.7	1/1	6.07	10.8	5.56	17.7	15.7
Chloride[c]	mg/L	26.1	29.3	27.2	26.7	4/4	26.5	25.4	25.1	26.8	30.1
Fluoride[c]	µg/L	2980	3240	3070	3030	4/4	2970	2630J	2780	2670	2770
Hardness	mg/L	86.6	86.6	86.6	86.6	1/1	28.5	48.7	27.0	79.2	69.1
K	mg/L	10.0	10.0	10	10	1/1	5.35	6.56	6.38	6.82	5.92
Mg	mg/L	10.3	10.3	10.3	10.3	1/1	3.23	5.28	3.19	8.50	7.25
Na	mg/L	608	608	608	608	1/1	613	613	590	563	503
NO_3+NO_2 as N[c]	µg/L	7.0U	90.6	32.4	17.8	3/4	13.0	7.2	12.6	32.4U	206
SO_4[c]	mg/L	1.71	18.9	10.7	11.1	4/4	0.686	3.10	0.760	6.63	6.77
TDS[d]	mg/L	1510	1550	1530	1530	4/4	1540	1500	1550	1530	--
Metals[e]											
As	µg/L	2.3J	2.3J	2.3	2.3	1/1	3.2J	1.0U	0.53	0.52	0.96
Fe	µg/L	--	--	--	--	--	--	--	21.9	95.9	36.9
Mn	µg/L	142	142	142	142	1/1	65.6	1.9J	7.9	89.8	46
Mo	µg/L	11.4J	11.4J	11.4	11.4	1/1	1.1U	8.5J	0.8U	3.5	1.9U
Se	µg/L	1.7U	1.7U	0.85	0.85	0/1	2.2U	1.0U	0.1U	0.1U	0.3U
U	µg/L	5.0J	5.0J	5	5	1/1	1.1U	2.7J	0.68	2.1	1.7
V	µg/L	8.6J	8.6J	8.6	8.6	1/1	1.1U	2.0U	1.5	1.3U	0.3U
Radiological											
Alpha[c,f]	pCi/L	19.1U	58.7UJ	20.9	22.4	1/4	13.4U	22.6U	13.2UJ	11.3UJ	11.0
Alpha-U[c,g]	pCi/L	16.7	58.7UJ	18.1	16.8	1/4	13.4U	22.6U	13.2UJ	11.3UJ	9.8
Beta[c]	pCi/L	13.6U	49.6U	17	18.2	0/4	12.5U	26.8U	12.1	13.2	8.2U
U	µg/L	5.0J	5.0J	5	5	1/1	1.1U	2.7J	0.68	2.1	1.7
U-234[c]	pCi/L	2.1	21.5	10.2	8.5	4/4	1.0U	5.5	0.94	2.8	--
U-235[c]	pCi/L	0.050U	1.1U	0.22	0.153	1/4	1.1U	0.40U	--	--	--
U-238[c]	pCi/L	0.43	5.0	2.23	1.75	4/4	1.1U	1.0J	0.38	1.1	--

[a]*Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.* U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]*Metals and cations are from filtered samples October 1997 through October 2002.*
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Bedrock Ground Waters -- Cross Gradient -- AEC 6[a]

Analyte	Unit	07/27/00
Field Measurements		
Alkalinity[c]	mg/L	136
Conductivity[d]	µmhos/cm	351
DO[d]	mg/L	0.1
ORP[d]	mV	-275
pH[d]	s.u.	8.98
Temperature[d]	C	14.8
Turbidity[d]	NTU	8.35
Common Ions[e]		
Ca	mg/L	28.5
Chloride[c]	mg/L	1.76
Fluoride[c]	µg/L	85.1
Hardness	mg/L	105
K	mg/L	2.08
Mg	mg/L	8.24
Na	mg/L	32.6
NO_3+NO_2 as N[c]	µg/L	32.4U
SO_4[c]	mg/L	40.6
TDS[d]	mg/L	233
Metals[e]		
As	µg/L	2.2
Fe	µg/L	47.8
Mn	µg/L	96.5
Mo	µg/L	0.3U
Se	µg/L	0.1U
U	µg/L	0.10U
V	µg/L	1.3U
Radiological		
Alpha[c,f]	pCi/L	3.6UJ
Alpha-U[c,g]	pCi/L	3.6UJ
Beta[c]	pCi/L	4.9U
U	µg/L	0.10U
U-234[c]	pCi/L	0.17U
U-235[c]	pCi/L	0.10U
U-238[c]	pCi/L	0.12U

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity.
U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]*Uranium activity greater than gross alpha.*
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Bedrock Ground Waters -- Downgradient -- 83-70[a]

Analyte	Unit	November 1992 - December 1996[b]												
		Minimum	Maximum	Average	Median	FOD	10/21/97	10/08/98	04/14/99	10/26/99	04/18/00	10/19/00	10/16/01	10/07/02
Field Measurements														
Alkalinity[c]	mg/L	152	236	204	211	10/10	207	197	199	196	144	236	121	223
Conductivity[d]	µmhos/cm	428	622	596	618	10/10	622	580	616	602	610	613	611	597
DO[d]	mg/L	0.14	6.4	1.14	0.525	10/10	--	--	--	0.49	1.33	0.47	--	--
ORP[d]	mV	-94	148	-42.1	-75	10/10	--	-107	-145	-97	74	-94	-123	--
pH[d]	s.u.	6.86	7.57	7.34	7.41	10/10	7.34	6.82	7.33	7.21	6.96	7.44	7.32	7.45
Temperature[d]	C	10.1	11.6	10.8	10.6	10/10	10.5	11.5	11.6	10.7	10.3	12.3	11.6	11.2
Turbidity[d]	NTU	0.18	4.77	1.22	0.715	10/10	2.87	0.43	0.51	0.37	1.28	1.81	0.62	1.02
Common Ions[e]														
Ca	mg/L	51.8	55.7	53.8	53.7	11/11	55.5	52.4	51.8	55.8	55.3	54.1	45.0	51.2
Chloride[c]	mg/L	2.78	3.06	2.92	2.9	11/11	3.37	3.20	3.46	3.10	2.93	2.87	3.66	3.50
Fluoride[c]	µg/L	89.5	201	143	141	11/11	150	11.0U	163J	145	138	144	26.2U	159
Hardness	mg/L	170	185	179	179	11/11	182	174	171	185	184	180	150	172
K	mg/L	1.69J	3.15J	2.42	2.4	11/11	2.62	2.75J	2.78J	2.60	2.89	2.83	2.40	2.71
Mg	mg/L	9.92	11.6	10.9	11	11/11	10.6	10.6	10.2	11.1	11.1	11.0	9.09	10.8
Na	mg/L	56.4	65.8	61	61.2	11/11	60.8	61.8	64.8	62.8	63.1	62.1	53.9	58.9
NO_3+NO_2 as N[c]	µg/L	7.0U	71.4	23.3	11.8	4/6	16.7	4.0U	82.8J	36.3	32.4U	32.4U	110	9.9
SO_4[c]	mg/L	96.8	103	99.8	99.8	11/11	103	97.7	105	97.7	102	103	110	110
TDS[d]	mg/L	360	606	476	450	11/11	335	370	387	365	335	382	--	--
Metals[e]														
As	µg/L	1.0U	4.0UJ	1.28	1	1/11	2.2UJ	1.0UR	1.0U	0.4U	0.2U	0.2U	0.6U	0.1U
Fe	µg/L	248	464	352	355	9/9	--	--	348	395	344	375	310	412
Mn	µg/L	261	281	271	271	11/11	271	265	261	277	298	282	234	272
Mo	µg/L	1.0U	27.0U	3.46	1	3/11	1.2	1.5J	2.0U	0.8U	0.4U	0.4	1.9U	1.7U
Se	µg/L	1.0U	3.3UJ	0.936	1	0/11	2.2U	1.0U	1.0U	0.1U	0.2U	0.1U	0.3U	0.1U
U	µg/L	1.0U	4.3J	0.922	0.5	1/9	1.1U	1.0U	1.0U	0.2U	0.10U	0.1U	0.1U	0.1U
V	µg/L	1.1U	23.2J	4.43	2.5	1/11	1.1U	2.0U	1.0U	1U	0.4U	1.3U	0.3U	0.3U
Radiological														
Alpha[c,f]	pCi/L	4.5U	30.0U	8.47	8	0/11	3.3	4.8	3.7UJ	4.8UJ	3.7U	7.8U	2.9U	3.9U
Alpha-U[c,g]	pCi/L	4.5U	30.0U	8.47	8	0/11	3.3[j]	4.3	3.7UJ	4.8UJ	3.7U	7.8U	2.9U	3.9U
Beta[c]	pCi/L	5.8U	30.0U	8.32	8.05	0/11	4.3	4.5U	4.5	6.6	4.7	7.4U	3.1	4.9
U	µg/L	1.0U	4.3J	0.922	0.5	1/9	1.1U	1.0U	1.0U	0.2U	0.10U	0.1U	0.1U	0.1U
U-234[c]	pCi/L	0.22U	15.3	1.88	0.53	7/11	1.0U	2.0U	0.80U	0.80U	0.44U	0.52U	--	--
U-235[c]	pCi/L	0.050U	1.0U	0.141	0.0925	0/8	1.1U	0.40U	0.40U	--	--	--	--	--
U-238[c]	pCi/L	0.040U	1.0U	0.215	0.15	3/11	1.1U	0.49J	0.40U	0.13	0.10U	0.10U	--	--

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Bedrock Ground Waters -- Downgradient -- 92-10[a]

Analyte	Unit	November 1992 - December 1996[b]												
		Minimum	Maximum	Average	Median	FOD	10/15/97	10/06/98	04/14/99	10/26/99	04/19/00	10/31/00	10/16/01	10/09/02
Field Measurements														
Alkalinity[c]	mg/L	154	250	198	195	11/11	199	204	201	238	191	182	180	199
Conductivity[d]	µmhos/cm	466	738	693	719	11/11	751	734	722	709	590	720	617	627
DO[d]	mg/L	0.40	9.10	3.72	2.44	10/10	--	--	--	0.72	1.41	--	--	--
ORP[d]	mV	-65	241	-6.45	-42	11/11	--	-75	-156	-160	53	-109	-67	--
pH[d]	s.u.	6.84	7.54	7.27	7.24	11/11	7.18	7.24	7.19	7.21	7.57	7.76	7.51	7.42
Temperature[d]	C	9.6	10.0	9.85	9.9	11/11	10.6	9.4	9.9	10.0	9.3	10	10.8	11.8
Turbidity[d]	NTU	1.22	23.1	5.35	2.52	11/11	2.16	5.04	3.82	1.73	3.67	1.68	32.9	4.78
Common Ions[e]														
Ca	mg/L	60.5	81.0	75.6	76.6	11/11	85.4	76.2	75.1	80.2	64.0	80.7	62.1	66.8
Chloride[c]	mg/L	5.47	17.9	14.1	14.7	12/12	17.4	15.5	16.7	16.3	5.99	18.2	9.78	12.2
Fluoride[c]	µg/L	93.7	161	122	115	12/12	131	118	150J	122	153	172	193	217J
Hardness	mg/L	196	262	243	243	11/11	269	244	240	255	206	258	200	217
K	mg/L	1.98J	4.19J	2.7	2.68	11/11	2.61	2.72J	2.81J	2.55	2.73	2.84	2.54	2.66
Mg	mg/L	10.8	14.6	13.3	13.3	11/11	13.6	13.0	12.7	13.3	11.3	13.7	11.0	12.3
Na	mg/L	44.9	58.2	53.5	53.8	11/11	56.4	53.7	57.4	54.6	46.1	56.0	43.5	45.0
NO_3+NO_2 as N[c]	µg/L	7.0U	47.3	22.6	18.4	5/8	13.2	12.5	34.7J	12U	32.4U	32.4UJ	193	486
SO_4[c]	mg/L	106	153	139	143	12/12	149	142	150	143	105	155	126	131
TDS[d]	mg/L	400	850	508	462	12/12	487	463	463	455	345	453	--	--
Metals[e]														
As	µg/L	0.44U	4.0J	1.7	1.5	4/12	2.2UJ	1.0UR	1.0U	0.49	0.2U	0.2U	0.6U	0.1U
Fe	µg/L	96.3J	1460	645	545	7/7	--	--	387	501	397	564	381	396
Mn	µg/L	313	357	336	336	11/11	356	341	335	346	310	365	303	329
Mo	µg/L	0.56U	27.0U	4.13	1.6	6/12	1.4	1.7J	2.0U	0.8U	0.4U	1.1	2.4	1.7U
Se	µg/L	1.0U	3.0U	0.854	1	0/12	2.2U	1.0U	1.0U	0.1U	0.2U	0.1U	0.3U	0.1U
U	µg/L	0.22U	2.3J	0.657	0.5	1/9	1.1U	1.0U	1.0U	0.2U	0.10U	0.1U	0.22	0.1U
V	µg/L	1.1U	8.0U	2.68	2.75	0/12	1.1U	2.0U	1.0U	1U	0.4U	1.3U	0.3U	0.3U
Radiological														
Alpha[c,f]	pCi/L	4.9U	133U	12.6	7.45	0/12	4.0U	4.8UJ	4.3UJ	5.4UJ	3.6U	8.5U	2.9U	4.6
Alpha-U[c,g]	pCi/L	4.9U	133U	12.6	7.45	0/12	4.0U	4.8UJ	4.3UJ	5.4UJ	3.6U	8.5U	2.9U	0[h]
Beta[c]	pCi/L	6.1	99.0U	10	5.55	1/12	3.7U	4.6U	5.0	4.9U	3.2U	7.5U	2.8	5.0U
U	µg/L	0.22U	2.3J	0.657	0.5	1/9	1.1U	1.0U	1.0U	0.2U	0.10U	0.1U	0.22	0.1U
U-234[c]	pCi/L	0.63	4.0	1.76	1.45	10/12	1.0U	2.0U	0.80U	0.85	1.1U	0.52U	--	--
U-235[c]	pCi/L	0.060U	1.0U	0.167	0.0975	0/10	1.1U	0.40U	0.40U	--	--	--	--	--
U-238[c]	pCi/L	0.060U	1.7	0.454	0.15	4/12	1.1U	0.40U	0.40U	0.12U	0.10U	0.10U	--	--

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit. UJ = Not detected, associated value is estimated.
[b]Summary of data presented in 1998 RI.
[c]Sample was filtered in the field.
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Bedrock Ground Waters -- Downgradient -- 92-12[a]

Analyte	Unit	November 1992 - December 1996[b]												
		Minimum	Maximum	Average	Median	FOD	10/20/97	10/12/98	04/21/99	10/20/99	04/18/00	11/02/00	10/16/01	10/09/02
Field Measurements														
Alkalinity[c]	mg/L	190	2900	636	270	7/7	299	307	227	300	286	293	354	352
Conductivity[d]	µmhos/cm	748	867	786	766	7/7	900	788	794	753	801	8000	823	845
ORP[d]	mV	--	--	--	--	--	196	157	--	--	90	164	85	--
pH[d]	s.u.	7.15	7.70	7.51	7.57	7/7	7.22	6.60	7.63	8.21	7.58	7.74	7.56	7.45
Temperature[d]	C	9.6	10.8	10.2	10	7/7	13.3	10.8	10.9	11.2	10.8	10.1	10.8	10.3
Turbidity[d]	NTU	40.5	>1000	410	285	7/7	6.29	49.3	800	189	104	534	1000	245
Common Ions[e]														
Ca	mg/L	--	--	--	--	--	39.1	34.6	33.9	32.6	36.6	36.1	37.1	40.3
Chloride[c]	mg/L	3.55	5.73	4.28	3.85	7/7	3.82	3.56	4.44	4.09	3.38	3.97	4.51	4.15
Fluoride[c]	µg/L	61.0	513	417	472	7/7	411	411J	551	425	432	432	600	25.1UJ
Hardness	mg/L	--	--	--	--	--	144	130	126	122	136	135	141	156
K	mg/L	--	--	--	--	--	3.57	3.59J	3.56J	3.48	3.52	3.38	3.52	3.60
Mg	mg/L	--	--	--	--	--	11.2	10.7	9.94	9.96	10.8	10.8	11.7	13.4
Na	mg/L	--	--	--	--	--	130	126	137	124	128	124	127	127
NO_3+NO_2 as N[c]	µg/L	246	1220	929	1030	7/7	1050	790	840	632	679	735J	1280	1430
SO_4[c]	mg/L	108	128	118	113	7/7	117	98.5	114	103	104	101	110	106
TDS[d]	mg/L	470	980	702	686	7/7	485	490	527	505	172	525	--	--
Metals[e]														
As	µg/L	0.44U	2.0U	0.61	0.61	0/2	2.2UJ	1.0U	1.0U	0.81	0.29	0.39	0.6U	0.12
Fe	µg/L	--	--	--	--	--	--	--	5.0U	9U	7.4U	11.7U	7.8	0.8U
Mn	µg/L	--	--	--	--	--	1.1U	1.8J	1.4J	0.8U	2.3	2U	1.2	0.65
Mo	µg/L	76.4	109	92.7	92.7	2/2	47.6	29.6	32.0	26.1	27.1	25.7	17.1	13.5
Se	µg/L	1.0U	2.8J	1.65	1.65	1/2	3.9	1.7J	2.4J	2	2.2	2.7	3.8	3.7
U	µg/L	3.4J	10.8	7.1	7.1	2/2	3.1	2.5J	3.8J	2.1	0.1U	2	2.1	2.4
V	µg/L	5.0U	6.7U	2.93	2.93	0/2	1.1U	2.0U	1.0U	1U	0.5	1.3U	0.3U	0.3U
Radiological														
Alpha[c,f]	pCi/L	5.7U	884	137	11.5	3/7	5.3	6.1U	5.1UJ	5.8UJ	6.0U	8.9U	4.3	5.2U
Alpha-U[c,g]	pCi/L	5.7U	874	133	11	3/7	5.3[i]	6.1U	5.1UJ	5.8UJ	6.0U	8.9U	2.9	5.2U
Beta[c]	pCi/L	7.2U	321	52.6	9.8	1/7	3.8U	6.8U	4.6U	5.2U	6.3U	7.6	4.0	5.1U
U	µg/L	3.4J	10.8	7.1	7.1	2/2	3.1	2.5J	3.8J	2.1	0.1U	2	2.1	2.4
U-234[c]	pCi/L	0.60U	8.9	5.46	6.2	6/7	1.0U	4.1	3.5	2.8	1.1U	0.52U	--	--
U-235[c]	pCi/L	0.050U	1.0U	0.139	0.06	0/7	1.1U	0.40U	0.40U	--	--	--	--	--
U-238[c]	pCi/L	1.0	2.7	1.77	1.7	7/7	1.1U	0.99J	1.1J	0.83	0.89	0.76	--	--

[a]Definition of Qualifiers: -- = No Data. R = Data unusable. J = Estimated quantity. U = Not detected; value is sample detection limit.
UJ = Not detected, associated value is estimated.
[b]Summary of data presented in 1998 RI.
[c]*Sample was filtered in the field.5*
[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]*Uranium activity greater than gross alpha.*
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Bedrock Ground Waters -- Downgradient -- 95-02[a]

Analyte	Unit	November 1992 - December 1996[b]										
		Minimum	Maximum	Average	Median	FOD	10/14/97	10/06/98	10/25/99	11/01/00	10/17/01	10/08/02
Field Measurements												
Alkalinity[c]	mg/L	174	231	196	189	4/4	176	176	164	180	165	167
Conductivity[d]	µmhos/cm	592	614	607	611	4/4	610	598	593	600	603	589
DO[d]	mg/L	0.12	0.56	0.315	0.29	4/4	--	--	0.20	0	--	--
ORP[d]	mV	-75	228	40	3.5	4/4	--	-74	-120	-85	-54	--
pH[d]	s.u.	7.10	7.52	7.31	7.31	4/4	7.13	7.06	6.96	7.14	7.21	7.19
Temperature[d]	C	11.3	14.5	12.3	11.8	4/4	12.0	12.0	11.8	12.1	12.6	12.4
Turbidity[d]	NTU	0.62	3.82	1.91	1.59	4/4	3.99	3.8	2.72	4.99	2.86	0.79
Common Ions[e]												
Ca	mg/L	37.0	39.0	38.3	38.6	5/5	38.8	36.5	37.6	39.2	37.0	36.5
Chloride[c]	mg/L	5.03	5.24	5.12	5.11	5/5	5.35	5.31	5.49	6.02	6.41	6.45
Fluoride[c]	µg/L	235	296	261	254	5/5	242	281	269	258	329	349
Hardness	mg/L	134	146	143	145	5/5	141	135	139	144	137	137
K	mg/L	2.07J	3.60J	2.56	2.21	5/5	2.72	2.84J	2.85	2.95	2.68	2.82
Mg	mg/L	10.2	11.9	11.4	11.7	5/5	10.6	10.6	11.0	11.2	10.8	11.1
Na	mg/L	67.6	78.2	74.5	75.1	5/5	71.4	71.5	72.4	72.6	70.6	69.5
NO_3+NO_2 as N[c]	µg/L	7.0U	43.5	14.4	9.2	3/5	19.9	6.7	12U	32.4UJ	2630	12.6
SO4[c]	mg/L	112	114	113	113	5/5	111	111	110	114	128	123
TDS[d]	mg/L	360	382	369	367	5/5	375	363	342	378	--	--
Metals[e]												
As	µg/L	0.44U	2.6J	0.828	0.55	1/5	4.0J	1.1J	1.1	0.57	0.71	0.59
Fe	µg/L	--	--	--	--	--	--	--	565	488	563	599
Mn	µg/L	168	195	186	187	5/5	194	193	205	217	211	207
Mo	µg/L	0.56U	1.2J	0.572	0.55	1/5	1.1U	1.0U	0.8U	0.32	1.9U	1.7U
Se	µg/L	1.7U	8.1J	3.59	3.7	3/5	2.2U	1.0U	0.1U	0.1U	0.42	0.1U
U	µg/L	0.34J	0.66J	0.467	0.4	3/3	1.1U	1.0U	0.2U	0.25	0.1U	0.18
V	µg/L	1.1U	7.7U	2.78	3.35	0/5	1.1U	2.0U	1U	1.3U	0.3U	0.3U
Radiological												
Alpha[c,f]	pCi/L	4.4U	13.2UJ	4.54	4.4	1/5	3.0U	6.0J	4.0UJ	7.5U	4.1UJ	4.3U
Alpha-U[c,g]	pCi/L	4.4U	13.2UJ	4.42	4.4	1/5	3.0U	6.0[i]	4.0UJ	7.5U	4.1UJ	4.3U
Beta[c]	pCi/L	4.6U	12.2U	4.71	4.7	1/5	5.4	6.6	3.7U	7.4U	5.1	5.0U
U	µg/L	0.34J	0.66J	0.467	0.4	3/3	1.1U	1.0U	0.2U	0.25	0.1U	0.18
U-234[c]	pCi/L	0.41	1.1	0.646	0.48	4/5	0.40U	2.0U	0.80U	0.52U	--	--
U-235[c]	pCi/L	0.040	1.1U	0.159	0.045	1/5	1.1U	0.40U	--	--	--	--
U-238[c]	pCi/L	0.090U	1.1U	0.217	0.11	2/5	1.1U	0.40U	0.12U	0.13	--	--

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[d]Sample was unfiltered.
[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Bedrock Ground Waters -- Downgradient -- 95-04[a]

Analyte	Unit	November 1992 - December 1996[b]										
		Minimum	Maximum	Average	Median	FOD	10/15/97	10/06/98	10/25/99	10/31/00	10/11/01	10/08/02
Field Measurements												
Alkalinity[c]	mg/L	223	300	255	249	4/4	235	228	240	240	218	253
Conductivity[d]	µmhos/cm	1675	1767	1720	1710	4/4	1697	1632	1563	1580	1588	1592
DO[d]	mg/L	0.12	4.84	1.38	0.285	4/4	--	--	0.88	--	--	--
ORP[d]	mV	-14	230	84.8	61.5	4/4	--	-67	-125	-95	-72	--
pH[d]	s.u.	6.99	7.06	7.01	7	4/4	7.12	7.12	6.82	7.02	7.21	7.1
Temperature[d]	C	10.8	12.4	11.5	11.4	4/4	10.9	10.7	10.7	10.9	9.9	13.5
Turbidity[d]	NTU	0.69	3.02	1.69	1.52	4/4	2.20	4.89	4.51	3.27	1.78	4.52
Common Ions[e]												
Ca	mg/L	172	174	173	174	4/4	173	155	166	161	154	158
Chloride[c]	mg/L	87.2	88.3	87.6	87.4	4/4	82.0	78.3	72.4	74.8	78.2	81.1
Fluoride[c]	µg/L	150	180	165	166	4/4	177	169	187	12.5U	221	160
Hardness	mg/L	642	681	668	674	4/4	655	604	644	628	597	606
K	mg/L	3.10J	4.60J	3.6	3.35	4/4	3.39	3.44J	3.44	3.59	3.22	3.58
Mg	mg/L	51.7	59.8	57.1	58.5	4/4	54.2	52.7	55.8	54.9	51.6	51.3
Na	mg/L	119	138	132	135	4/4	124	120	120	122	117	121
NO_3+NO_2 as N[c]	µg/L	7.0U	19.1	7.78	4.25	1/4	4.0U	4.0U	12U	32.4UJ	38	8.8
SO4[c]	mg/L	549	557	553	554	4/4	546	521	497	515	539	549
TDS[d]	mg/L	1230	1270	1240	1240	4/4	1210	1210	1160	1170	--	--
Metals[e]												
As	µg/L	0.44U	5.5J	3.38	3.9	3/4	3.3J	1.6J	0.74	0.96	0.73	0.24
Fe	µg/L	--	--	--	--	--	--	--	1460	1410	1370	1460
Mn	µg/L	455	501	476	473	4/4	453	412	430	439	408	481
Mo	µg/L	6.1	10.5J	7.53	6.75	4/4	6.9	7.0J	5	6.2	4.3	6.2
Se	µg/L	1.1UJ	2.2UJ	0.9	0.975	0/4	2.2U	1.0U	0.1U	0.1U	0.3U	0.1U
U	µg/L	5.6	9.6	7.6	7.6	2/2	4.9	4.8J	4.9	4.8	4.5	1.9
V	µg/L	1.1U	7.7U	2.64	3.08	0/4	1.1U	2.0U	1U	1.3U	0.3U	0.3U
Radiological												
Alpha[c,f]	pCi/L	9.4U	40.9UJ	11.3	9.93	0/4	17.1	11.5UJ	12.0UJ	8.5UJ	11.4UJ	8.8U
Alpha-U[c,g]	pCi/L	9.4U	40.9UJ	11.3	9.93	0/4	15.3	11.5UJ	12.0UJ	8.5UJ	11.4UJ	8.8U
Beta[c]	pCi/L	11.5U	40.5U	12.5	11.9	0/4	13.7	15.0	11.9U	10.3	11.5U	8.9
U	µg/L	5.6	9.6	7.6	7.6	2/2	4.9	4.8J	4.9	4.8	4.5	1.9
U-234[c]	pCi/L	2.6	16.2	6.63	3.85	4/4	1.0U	2.4	2.4	0.52U	--	--
U-235[c]	pCi/L	0.10U	1.1U	0.198	0.095	1/4	1.1U	0.40U	--	--	--	--
U-238[c]	pCi/L	1.9	10.6	4.4	2.55	4/4	1.8	1.8J	1.9	2.0	--	--

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[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Bedrock Ground Waters -- Downgradient -- 95-06[a]

Analyte	Unit	November 1992 - December 1996[b]											
		Minimum	Maximum	Average	Median	FOD	10/14/97	10/07/98	04/14/99	10/21/99	04/19/00	10/31/00	10/17/01
Field Measurements													
Alkalinity[c]	mg/L	292	335	310	306	4/4	307	395	320	314	321	353	317
Conductivity[d]	µmhos/cm	1408	2080	1750	1770	4/4	2130	2310	2240	2110	2270	2220	2220
DO[d]	mg/L	0.63	2.96	2.04	2.54	3/3	--	--	--	3.2	--	--	--
ORP[d]	mV	70	244	140	123	4/4	--	19	-13	-10	47	-61	-22
pH[d]	s.u.	6.98	7.36	7.22	7.27	4/4	7.26	6.56	6.90	6.47	7.14	7.33	7.08
Temperature[d]	C	11.5	15.0	13.7	14.1	4/4	12.2	12.8	12.3	14.8	12.1	11.9	12.2
Turbidity[d]	NTU	3.96	22.9	9.61	5.79	4/4	12.3	4.97	14.4	9.61	15.4	17.6	11.2
Common Ions[e]													
Ca	mg/L	145	200	176	182	3/3	211	207	213	203	235	229	211
Chloride[c]	mg/L	66.9	95.6	83.9	86.6	4/4	93.5	103	114	102	112	110	114
Fluoride[c]	µg/L	124	165	137	129	4/4	149	214	151J	121	124	136	352
Hardness	mg/L	516	739	641	667	3/3	756	761	780	753	857	830	771
K	mg/L	5.37J	6.75	5.93	5.66	3/3	6.61	7.04	7.35	7.60	7.64	7.17	6.87
Mg	mg/L	37.5	58.3	49.1	51.5	3/3	55.7	59.3	60.3	59.7	65.5	62.6	59.2
Na	mg/L	146	215	186	196	3/3	210	224	243	225	241	229	219
NO_3+NO_2 as N[c]	µg/L	10.0U	245	72.8	20.5	3/4	42.7	26.0	111	12.0U	32.4U	38.5	428
SO_4[c]	mg/L	512	726	640	660	4/4	720	759	828	791	823	821	844
TDS[d]	mg/L	1060	1580	1320	1320	4/4	1550	1720	1730	1720	1720	1720	--
Metals[e]													
As	µg/L	0.44U	5.7J	1.76	0.55	1/4	4.2J	1.0UR	1.0U	0.40U	0.2U	0.33	0.6U
Fe	µg/L	--	--	--	--	--	--	--	378	289	248	1440	567
Mn	µg/L	253	432	347	355	3/3	493	457	427	448	481	688	445
Mo	µg/L	0.56U	5.0J	2.16	1.68	2/4	2.7	3.1J	2.8J	1.2	6.5	3	1.9U
Se	µg/L	1.3J	2.2UJ	1.09	1.1	1/4	2.2U	1.0U	1.0U	0.1U	0.2U	0.1U	2.7
U	µg/L	38.0	46.5	42.3	42.3	2/2	56.1	62.4	63.0	60.6	64.3	57.2	64.4
V	µg/L	1.9J	7.7U	2.98	3.08	1/4	1.1U	2.0U	1.0U	1U	0.4U	1.3U	0.3U
Radiological													
Alpha[c,f]	pCi/L	33.4UJ	60.2	38.4	38.3	3/4	35.5	65.6J	55.4J	37.4J	61.1	47.1J	38.3J
Alpha-U[c,g]	pCi/L	0[h]	33.4UJ	10.4	12.4	3/4	0[h]	10.4J	0.60J	0[h]	0[h]	0[h]	0[h]
Beta[c]	pCi/L	16.7U	31.7U	13.7	14.3	1/4	23.1	26.3	23.9	28.7	27.2	24.3	13.9
U	µg/L	38.0	46.5	42.3	42.3	2/2	56.1	62.4	63.0	60.6	64.3	57.2	64.4
U-234[c]	pCi/L	12.3	25.4	19.6	20.3	4/4	28.1	30.9	30.0	29.9	46.3	26.7	--
U-235[c]	pCi/L	0.65	1.1U	0.715	0.72	3/4	1.1U	0.97J	1.3J	--	--	--	--
U-238[c]	pCi/L	8.1	17.1	13.2	13.8	4/4	19.5	23.3	23.5	21.7	26.9	22.1	--

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[e]Metals and cations are from filtered samples October 1997 through October 2002.
[f]Total gross alpha excluding radon which is lost during analysis.
[g]Gross alpha minus uranium activity. Result rounded as appropriate.
[h]Uranium activity greater than gross alpha.
[i]Uranium activity results were qualified as unusable ("R").
[j]Uranium activity is below detection limits.

Bedrock Ground Waters -- Downgradient -- 95-08[a]

Analyte	Unit	November 1992 - December 1996[b]					10/23/97	10/06/98	10/21/99	10/31/00
		Minimum	Maximum	Average	Median	FOD				
Field Measurements										
Alkalinity[c]	mg/L	167	293	250	270	4/4	268	261	283	286
Conductivity[d]	µmhos/cm	460	618	560	582	4/4	615	604	592	595
DO[d]	mg/L	0.28	1.24	0.623	0.485	4/4	--	--	0.44	2.3
ORP[d]	mV	43	235	109	78	4/4	--	26	-17	101
pH[d]	s.u.	7.56	7.95	7.69	7.63	4/4	7.68	7.13	7.54	7.75
Temperature[d]	C	12.0	15.5	13.6	13.4	4/4	15.0	13.6	13.4	12.4
Turbidity[d]	NTU	2.12	4.20	3.49	3.82	4/4	2.14	0.93	1.35	4.3
Common Ions[e]										
Ca	mg/L	18.0	28.1	25.1	27.2	4/4	28.3	26.6	25.9	28.1
Chloride[c]	mg/L	2.84	5.41	4.73	5.33	4/4	5.95	5.19	5.92	5.78
Fluoride[c]	µg/L	287	881	698	811	4/4	825	800	878	813
Hardness	mg/L	66.9J	109	95.7	104	4/4	106	102	99.7	107
K	mg/L	2.75J	4.43J	3.42	3.24	4/4	3.41	3.49J	3.61	3.57
Mg	mg/L	5.32J	9.39	8.03	8.7	4/4	8.62	8.64	8.51	8.93
Na	mg/L	87.6	98.2	93	93	4/4	94.1	95.2	95.5	94.0
NO_3+NO_2 as N[c]	µg/L	10.0U	89.5	43.1	38.9	3/4	50.2	14.7	12.0U	32.4U
SO4[c]	mg/L	33.4	72.1	44.6	36.4	4/4	34.6	32.7	34.2	34.3
TDS[d]	mg/L	295	365	339	349	4/4	358	335	358	365
Metals[e]										
As	µg/L	0.44U	11.8	5.63	5.25	3/4	2.2UJ	1.0UR	0.40U	0.21
Fe	µg/L	--	--	--	--	--	--	--	9U	11.7U
Mn	µg/L	54.8	86.5	67.5	64.3	4/4	48.6	47.4	43.6	44.9
Mo	µg/L	0.56U	1.3J	0.67	0.55	1/4	1.1U	1.0U	0.8U	0.3U
Se	µg/L	1.1UJ	2.2UJ	0.9	0.975	0/4	2.2U	1.0U	0.1U	0.1U
U	µg/L	0.22U	0.72J	0.415	0.415	1/2	1.1U	1.0U	0.2U	0.1U
V	µg/L	1.1U	7.7U	2.64	3.08	0/4	1.1U	2.0U	1.2	1.3U
Radiological										
Alpha[c,f]	pCi/L	4.1	13.5UJ-	4.79	5.03	1/4	3.1U	4.1UJ	4.3UJ	8.1U
Alpha-U[c,g]	pCi/L	2.4	13.5UJ-	4.36	4.18	1/4	3.1U	4.1UJ	4.3UJ	8.1U
Beta[c]	pCi/L	4.6U	12.0U	4.03	3.9	0/4	5.2	3.8	5.0	7.5U
U	µg/L	0.22U	0.72J	0.415	0.415	1/2	1.1U	1.0U	0.2U	0.1U
U-234[c]	pCi/L	1.4	3.9	2.28	1.9	4/4	1.0U	2.1	1.3	1.1
U-235[c]	pCi/L	0.030U	1.1U	0.156	0.03	0/4	1.1U	0.40U	--	--
U-238[c]	pCi/L	0.050U	1.1U	0.19	0.0925	1/4	1.1U	0.40U	0.12	0.10U

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Section C5.0

Soil and Sediment Analytical Data

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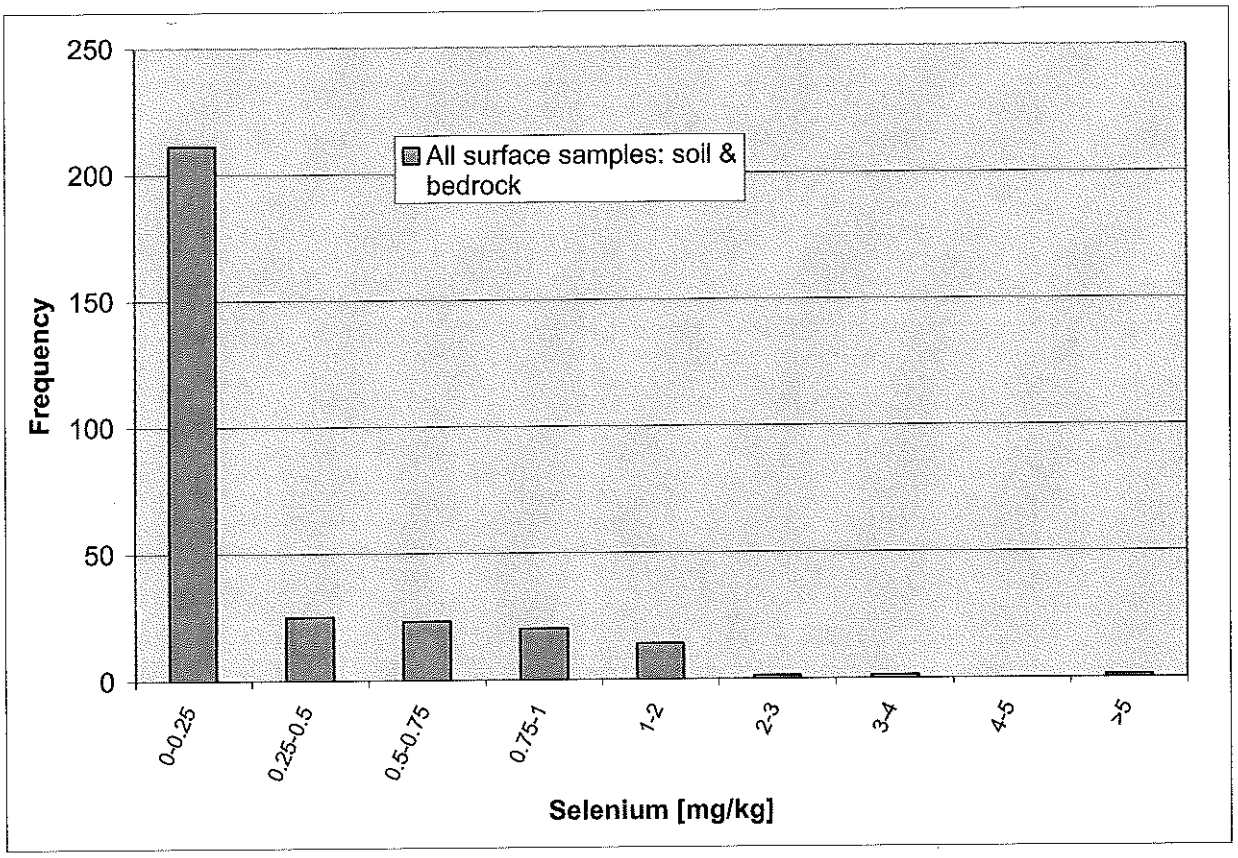

Frequency Plot of Selenium Data from Millsite Verification Sampling

Selenium Summary Statistics

mean	0.41 mg/kg
min	0.2 mg/kg
max	8.1 mg/kg
stdev	0.59
number of samples	296

Results From Soil Samples Collected Near the Former East Tailings Pile

Location	Depth Below Surface (ft)	As	Mn	Mo	Se	U	V
T01–07	3.5–6.5	11.1	1,020	6.8	3.1	36	28.4
	6.5–9.5	9.4	834	6.2	3.3	29.7	22
	12.5–15.5	8.1	1,720	8.7	1.6	54.4	17.5
T01–09	5.5–6.5	11.6	236	1.3	3.5	1.4	22.4
	9.5–11	9.2	360	0.97	2.3	0.99	27.8
T01–13		32.7	35.6	2.1	1.2	1.6	164
T01–29	3.5–6.5	8.8	81.5	0.39	2.8	3.2	3.5
T01–30	6.5–9.5	11.8	287	0.39	3.6	1.6	9.8
T01–31	1–3.5	8.2	466	0.58	2.7	1.7	19.5
	15.5–18.5	11.9	257	1.2	4.1	1.9	16.9
	24–27.5	8.9	298	1.4	1.6	3.4	19.6
T01–32	3.5–6.5	11	252	1.7	3	1.7	30.4
	15.5–18.5	13.8	331	1.4	4.1	1.7	26.9
	21.5–24	10	259	0.59	3.3	1.5	12.2
T01–30	3.5–6.5	11.1	200	1	4.7	2.1	18.7

Note: Sample results are in milligrams per kilogram