DOE–LM/GJ1127–2006

Verification Monitoring Report for the Riverton, Wyoming, Processing Site

Update for 2005

April 2006

U.S. Department of Energy

Office of Legacy Management

Work Performed Under DOE Contract No. DE–AC01–02GJ79491
for the U.S. Department of Energy Office of Legacy Management.

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Work Performed by S.M. Stoller Corporation under DOE Contract No. DE–AC01–02GJ79491
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1.0 Introduction

The compliance strategy for the Riverton, Wyoming, Processing Site (Riverton site) is natural flushing in conjunction with institutional controls (ICs) and continued monitoring (DOE 1998a). Monitoring during the natural flushing period is referred to as verification monitoring because the purpose of the monitoring is to verify that the natural flushing strategy is progressing as predicted and to verify that ICs are in place and functioning as intended. Data collected during verification monitoring are reported annually in a Verification Monitoring Report. The first verification monitoring report for the Riverton site was issued in 2001. This report entitled *Verification Monitoring Report, Riverton, Wyoming UMTRA Project Site* (DOE 2001), provided a summary of site conditions and evaluated monitoring data collected from 1996 to 2001. Annual updates to the original report provide evaluations of data collected during each subsequent year (DOE 2002, DOE 2003, DOE 2004).

The purpose of this report is to present and evaluate the data collected during 2005 and to provide an annual update on the progress of the natural flushing compliance strategy. This update is based on results from two sampling events conducted at the Riverton site during June and October 2005.

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2.0 Site Conditions

2.1 Hydrogeology

The Riverton site is located on an alluvial terrace between the Wind River and the Little Wind River approximately 2.3 miles southwest of the town of Riverton, Wyoming (Figure 2–1). Ground water occurs in three aquifers beneath the site: (1) surficial unconfined aquifer (surficial aquifer), (2) middle semiconfined aquifer, and (3) deeper confined aquifer (DOE 1998b). The surficial aquifer consists of unconsolidated alluvial material, and the semiconfined and confined aquifers are composed of shales and sandstones of the upper units of the Eocene Wind River Formation. Ground water in the surficial aquifer flows to the southeast. Depth to ground water in the surficial aquifer is generally less than 10 feet (ft) below land surface.

2.2 Water Quality

Shallow ground water beneath and downgradient from the site was contaminated as a result of uranium processing activities from 1958 through 1963 (DOE 1998b). Constituents of potential concern (COPC) in the ground water beneath the Riverton site are manganese, molybdenum, sulfate, and uranium. COPCs were selected using a screening process that compared constituent concentrations with appropriate maximum concentration limits (MCLs), and evaluated potential human health risks and ecological risks. The COPC selection process is detailed in the *Environmental Assessment of Ground Water Compliance at the Riverton, Wyoming, Uranium Mill Tailings Site* (DOE 1998c). Uranium and molybdenum were selected as indicator constituents for compliance monitoring in the *Final Ground Water Compliance Action Plan for the Riverton, Wyoming, Title I UMTRA Project Site* (GCAP) (DOE 1998a). These constituents were selected as indicator constituents because they are sufficiently distributed to form significant aqueous plumes in the uppermost aquifer in the vicinity of the site. The MCLs for uranium and molybdenum are 0.044 milligrams per liter (mg/L) and 0.10 mg/L, respectively.

2.3 Surface Remediation Activities

Uranium mill tailings and other contaminated materials were removed from the Riverton processing site during 1988−1989 and encapsulated at the Umetco Gas Hills East disposal site (Figure 2–1).

2.4 Institutional Controls

To be protective of human health and the environment during the natural flushing period, ICs are required to control exposure to contaminated ground water. An institutional control boundary has been established at the Riverton site (Figure 2–2), delineating the area that requires protection. The IC boundary was set to encompass the area of current ground water contamination and a surrounding buffer zone to account for potential future plume migration.

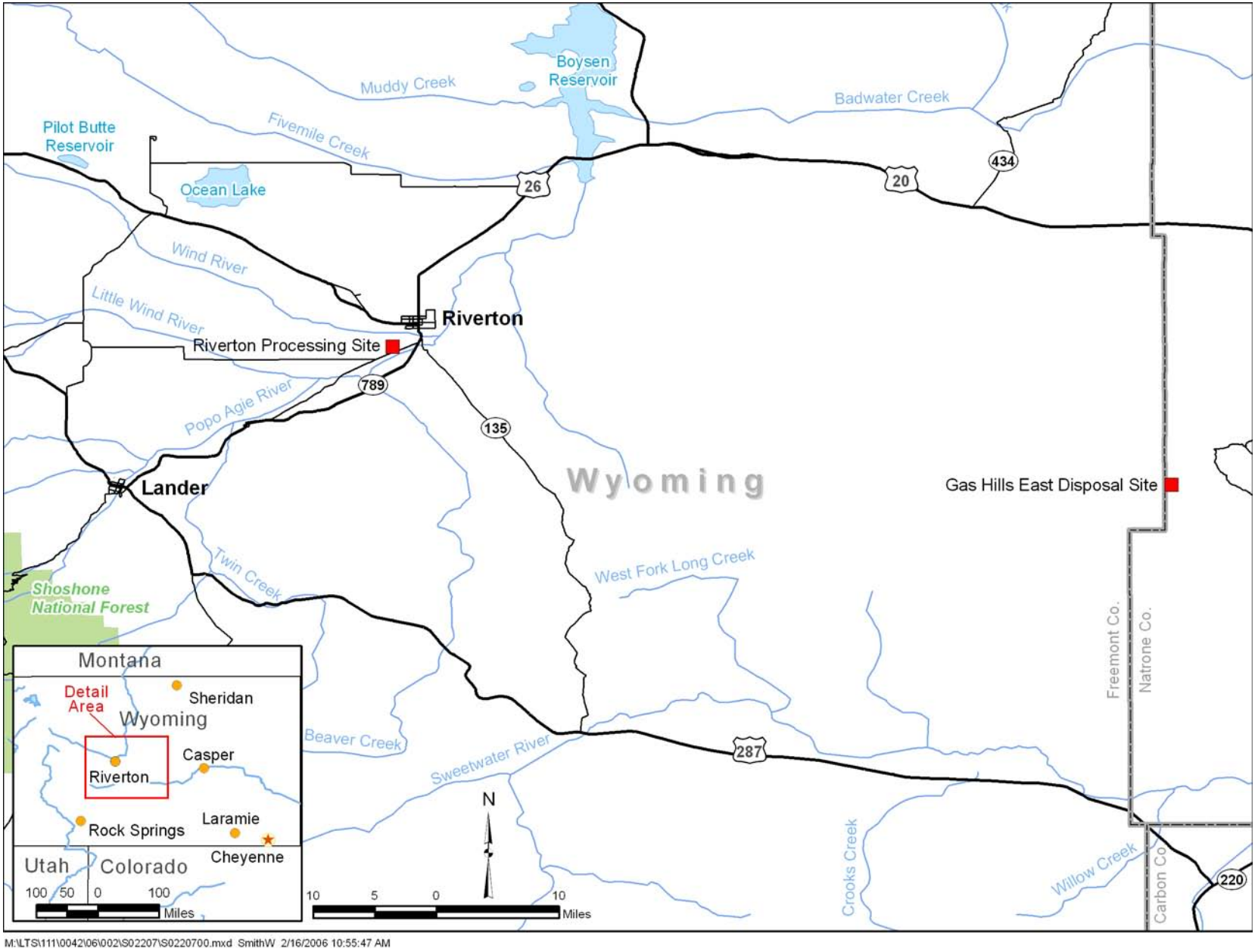

Figure 2–1. Site Location Map

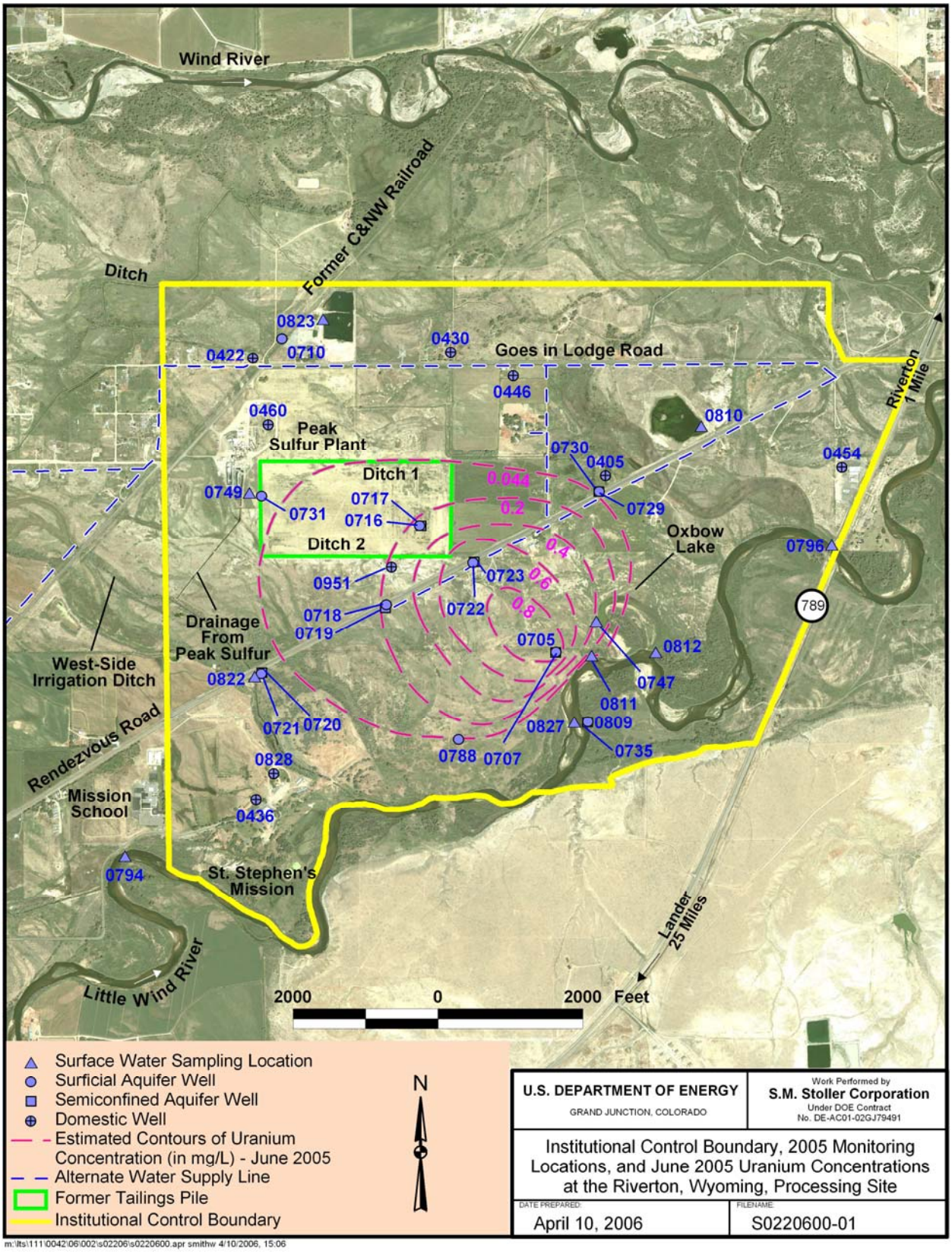

Figure 2–2. IC Boundary and the Uranium Distribution in the Surficial Aquifer at the Riverton Site

Cooperative efforts among the U. S. Department of Energy (DOE), the Arapaho and Shoshone Tribes, and the State of Wyoming continue in order to obtain viable and enforceable ICs at the Riverton site, although they have not been finalized. DOE is pursuing well installation and gravel mining restrictions within the IC area with the Tribes and State of Wyoming. In conjunction with the land use restrictions, DOE is in the process of distributing information to local drilling companies and filing notices of drilling restrictions with Fremont County so that new landowners are notified of the restrictions during real estate transactions.

DOE funded an alternate drinking water supply system in 1998 to provide potable water to residents living within the IC area. However, elevated concentrations of radionuclides (primarily radium-226 and radium-228) above the Federal drinking water standard were identified in the system in 2002 (Babits 2003), and were confirmed with data collected during the May 2004 sampling event. In 2005, DOE funded an independent analysis of the alternate water supply system to determine the source of the elevated radionuclides, to make recommendations of how to reduce the radionuclide concentrations to acceptable levels, and to determine the integrity and long-term viability of the system. Conclusions of the independent analysis included:

- The source of radionuclides in the system is from the source well, which has naturally occurring concentrations below Federal drinking water standards.
- Radionuclides in the system are being concentrated by sediment accumulation in stagnant portions of the system and/or by biofilm capture.
- A flushing program should be implemented as a first step to reduce the radionuclide concentrations.
- System components will require maintenance or replacement to provide the required 100-year lifespan; future growth will require system expansion.

3.0 Monitoring Program

The monitoring program was expanded in 2004 to include additional monitor wells and surface water locations for the purpose of enhancing delineation of contaminant plumes and improving the assessment of future contaminant plume movement. This expanded monitoring program continued in 2005 and consisted of 17 monitor wells, 9 domestic wells, and 10 surface water locations. Locations sampled during 2005 are listed in Table 3–1 and shown in Figure 2−2.

Table 3–1. 2005 Sampling Network at the Riverton Site

Location ID	Description	Sampling Event	Rationale
DOE Monitor Wells			
0705	Semiconfined aquifer	June, October	Monitor semiconfined aquifer
0707	Surficial aquifer	June, October	Centroid of plume
0710	Surficial aquifer	June, October	Background
0716	Surficial aquifer	June, October	Upgradient portion of plume
0717	Semiconfined aquifer	June, October	Monitor semiconfined aquifer
0718	Surficial aquifer	June, October	Monitor lateral plume movement
0719	Semiconfined aquifer	June, October	Monitor semiconfined aquifer
0720	Surficial aquifer	June, October	Monitor potential plume movement
0721	Semiconfined aquifer	June, October	Monitor semiconfined aquifer
0722	Surficial aquifer	June	Monitor plume movement
0723	Semiconfined aquifer	June, October	Monitor semiconfined aquifer
0729	Surficial aquifer	June, October	Monitor potential plume movement
0730	Semiconfined aquifer	June, October	Monitor semiconfined aquifer
0731	Surficial aquifer	June, October	Upper cross gradient from plume
0735	Semiconfined aquifer	June, October	Monitor semiconfined aquifer
0788	Surficial aquifer	June, October	Monitor lateral plume movement
0809	Surficial aquifer	June, October	Monitor potential plume migration south of river
Domestic Wells			
0405	Blomberg residence	June, October	Verify low concentrations of COPCs
0422	Roylance residence	June, October	Verify low concentrations of COPCs
0430	Raymond residence	June, October	Verify low concentrations of COPCs
0436	St Stephens Mission	June, October	Verify low concentrations of COPCs
0446	Givens residence	June, October	Verify low concentrations of COPCs
0454	789 Bingo/Truck Stop	June, October	Verify low concentrations of COPCs
0460	Peak Sulfur Plant	June, October	Verify low concentrations of COPCs
0828	St Stephens Mission	June, October	Verify low concentrations of COPCs
0951	Lonebear residence	June, October	Verify low concentrations of COPCs
Surface Water			
0747	Oxbow lake	June, October	Impacted by ground water discharge
0749	Peak Sulfur ditch	June, October	Effluent from sulfur plant
0794	Little Wind River	June, October	Upstream of predicted plume discharge
0796	Little Wind River	June, October	Downstream of predicted plume discharge
0810	Pond – former gravel pit	June, October	Potential for impact – within IC boundary
0811	Little Wind River	June, October	Within area of predicted plume discharge
0812	Little Wind River	June, October	Within area of predicted plume discharge
0822	West side irrigation ditch	June, October	Potential for impact – within IC boundary
0823	Pond – former gravel pit	June, October	Upgradient of plume; within IC area
0827	Little Wind River stilling well	Continuous	Installed in October, monitor water level in the Little Wind River.

The long-term monitoring network will continue to expand in 2006 with installation of additional wells along the lateral edge of the plume. The final long-term monitoring network will be specified in the *Long-Term Management Plan for the Riverton, Wyoming, Processing Site* (in progress).

4.0 Results of 2005 Monitoring

4.1 Ground Water

4.1.1 Ground Water Quality

Results of the monitoring program to date show that concentrations of uranium and molybdenum in ground water in the surficial aquifer are still above their respective MCL; however, concentrations are decreasing, indicating that natural flushing is occurring in the surficial aquifer. Time-versus-concentration plots for uranium in wells located within contaminant plumes and wells bordering the contaminant plumes in the surficial aquifer are shown in Figure 4–1. The distribution of uranium in the surficial aquifer, based on June 2005 sampling results, is shown on Figure 2–2. The distribution of molybdenum in ground water in the surficial aquifer is similar to that of uranium. Time-versus-concentration plots for molybdenum in wells located within contaminant plumes and wells bordering contaminant plumes in the surficial aquifer are shown in Figure 4–2. Concentrations of uranium and molybdenum in ground water in the semiconfined aquifer that underlies the surficial aquifer are still significantly below corresponding MCLs, indicating no impact from site-related contamination in this unit (Figure 4–3). Ground water quality data by parameter for locations sampled during 2005 are provided in Appendix A.

4.1.2 Ground Water Flow

Water levels were measured at the majority of wells in the monitoring network in June and October in order to verify ground water flow direction and to assess vertical gradients throughout the IC area. A stilling well was installed in the Little Wind River in October to monitor river stage, and continuous water level measurements were collected via data loggers in 7 wells. Water level data are included in Appendix D.

Assessment of horizontal ground water flow direction in the surficial aquifer is required to assure the monitoring network is adequate for assessing contaminant plume movement and to assure the IC boundary provides a sufficient buffer for contaminant plume movement. As shown in Figure 4–4 and Figure 4–5, ground water elevation contours for the surficial aquifer indicate a general flow direction to the southeast, which is consistent with historically measured flow directions and contaminant plume configurations.

Vertical gradients are used to assess the direction that ground water will flow vertically. Using the methods that have traditionally been applied to assess vertical flow, a negative gradient indicates potential for upward ground water flow, and a positive gradient indicates potential for downward ground water flow. Regardless of the direction indicated by gradient, vertical migration of ground water is expected to be relatively minor because of the low vertical hydraulic conductivities of the confining layers separating aquifers. Vertical gradients calculated from June and October data are shown in Table 4–1. General observations from Table 4–1 include:

(1) Vertical gradients in the confined aquifer are upward at two locations, as expected.

(2) The well cluster adjacent to the sulfuric acid plant indicates a downward vertical gradient in the confined aquifer, which is likely a reflection of continuous long-term pumping of the confined aquifer from the acid-plant production well.

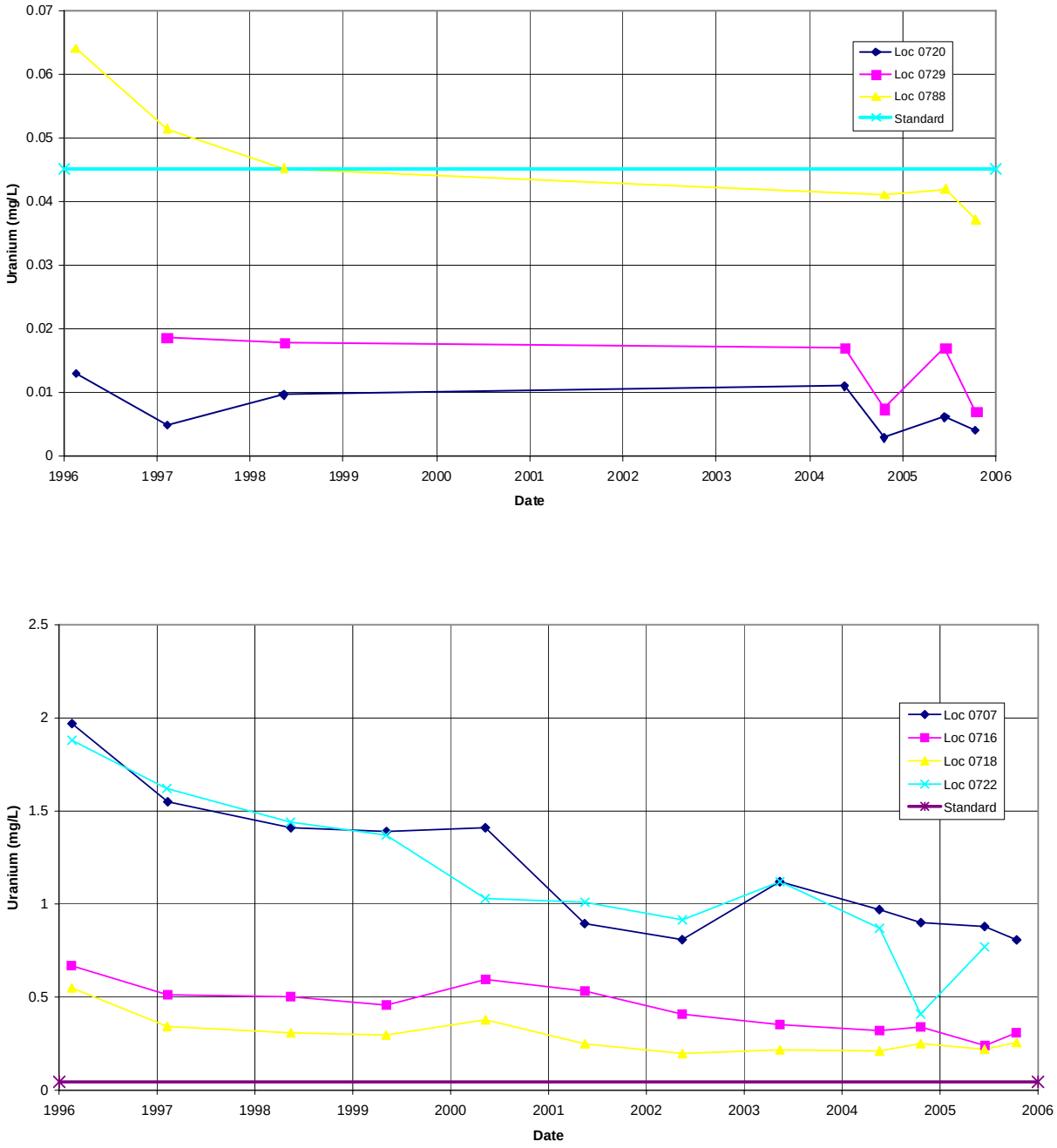

Figure 4–1. Riverton Processing Site Uranium Concentrations in Surficial Aquifer Wells

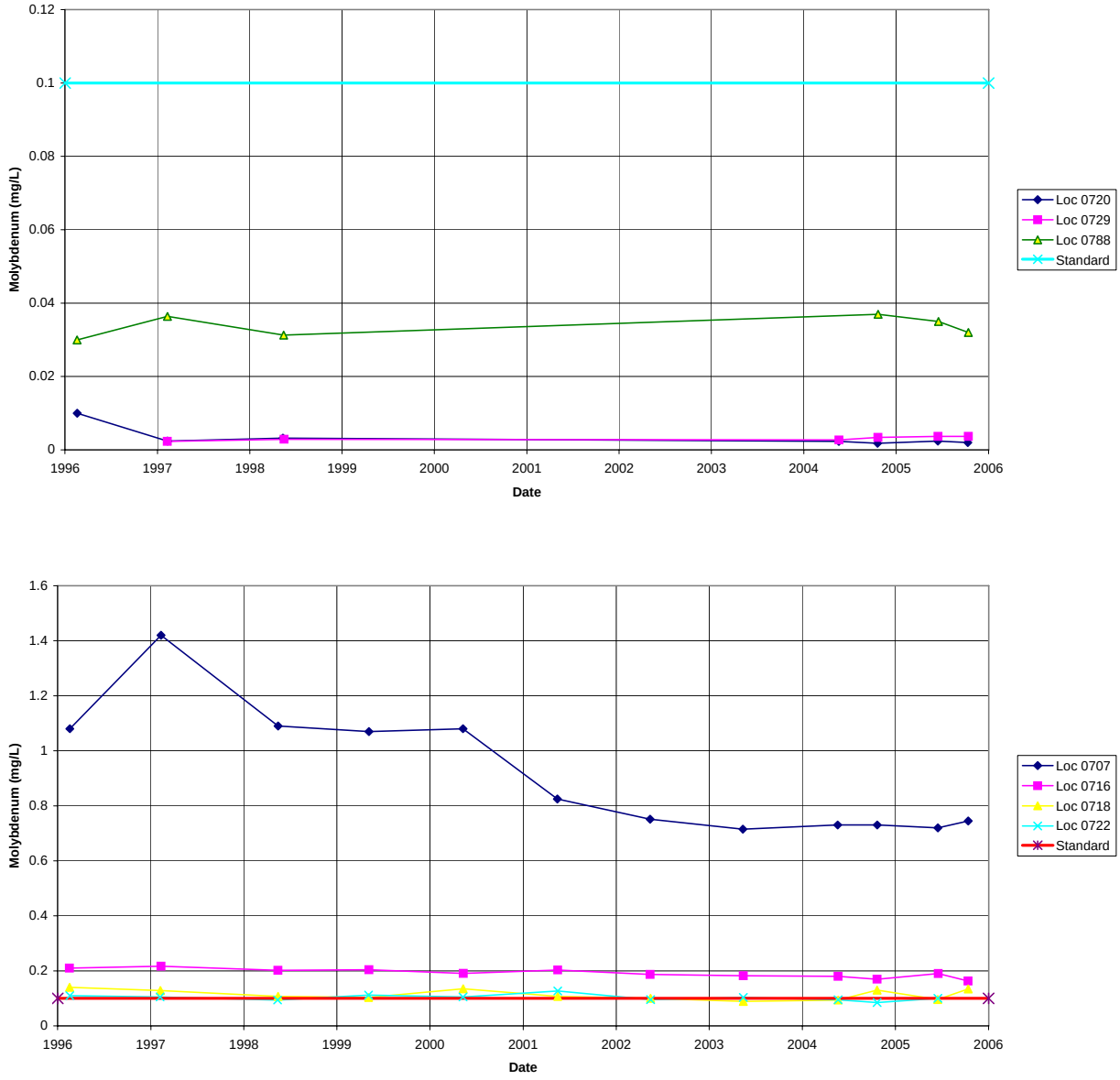

Figure 4–2. Riverton Processing Site Molybdenum Concentrations in Surficial Aquifer Wells

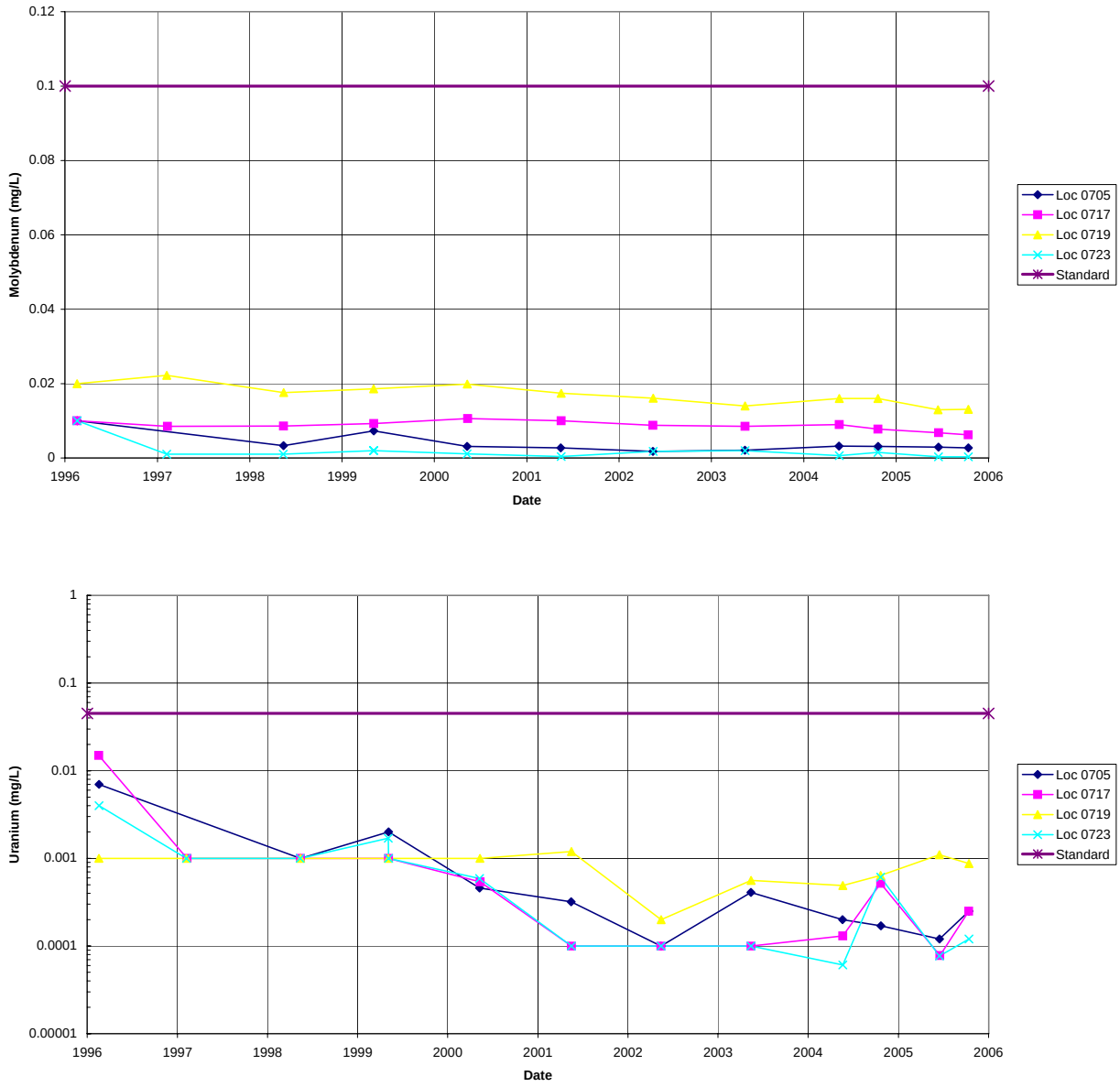

Figure 4–3. Riverton Processing Site Molybdenum and Uranium Concentrations in Semiconfined Aquifer Wells

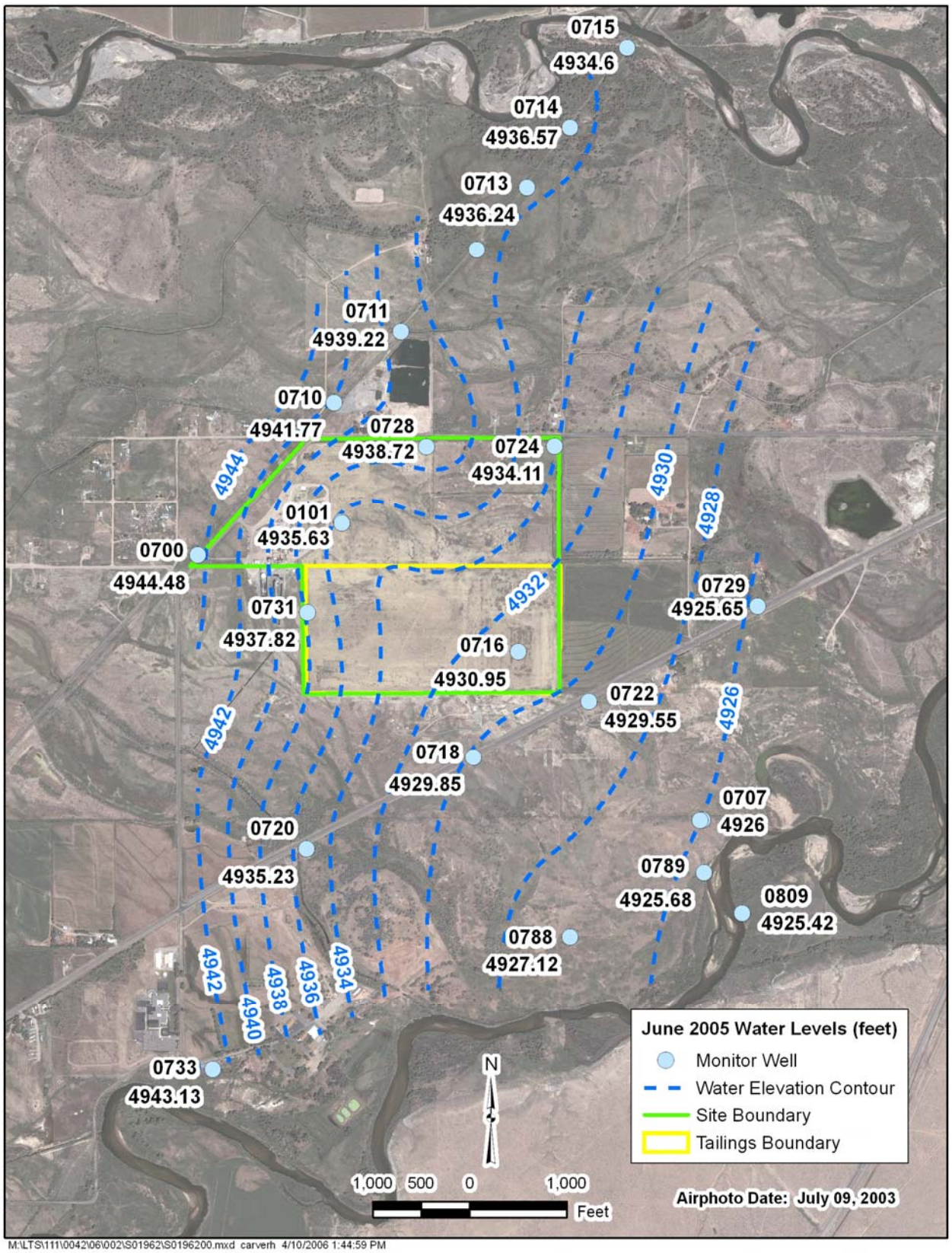

Figure 4–4. June 2005 Water Levels in the Surficial Aquifer

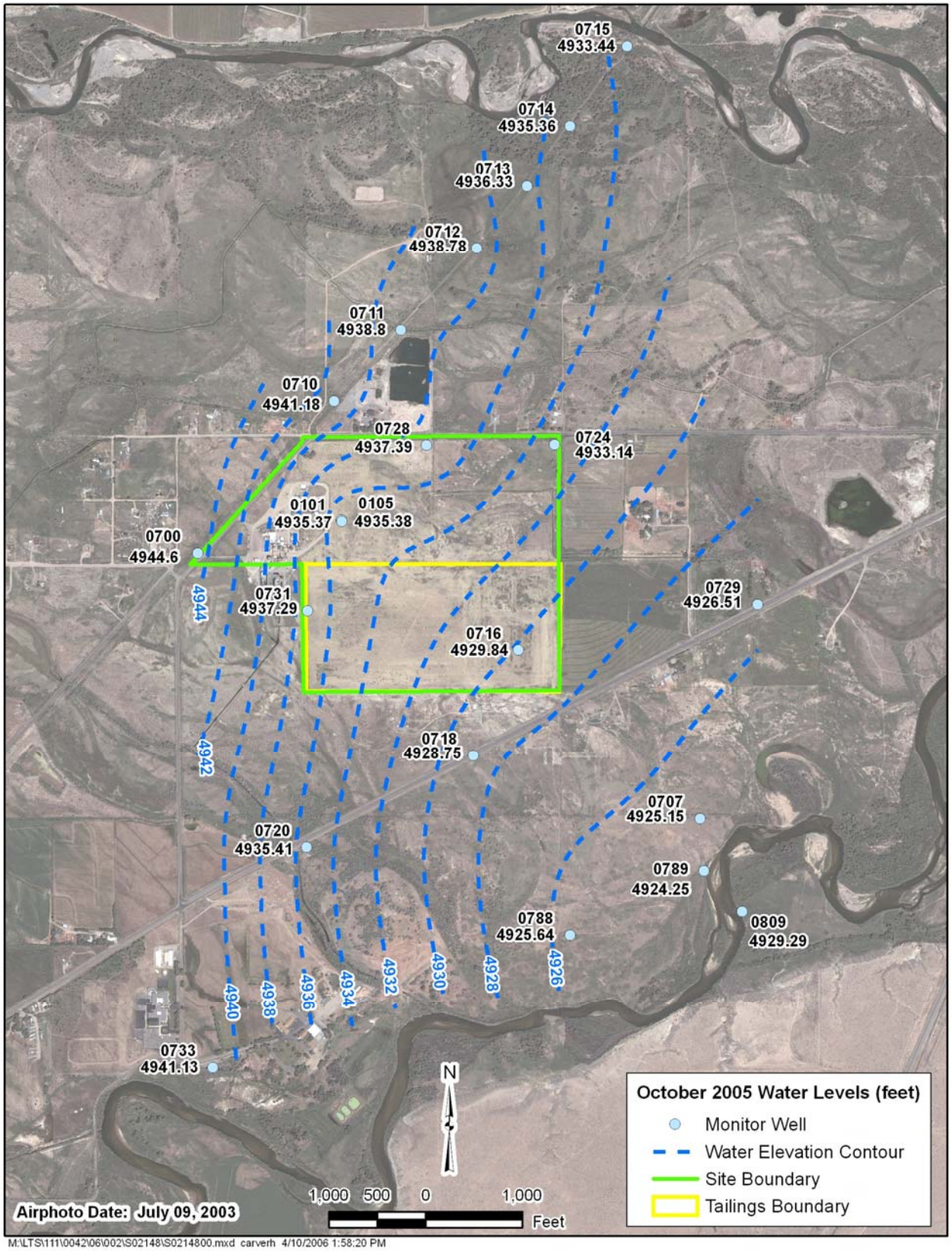

Figure 4–5. October 2005 Water Levels in the Surficial Aquifer

(3) Vertical gradients in the semiconfined aquifer are variable, but tend to be downward near surface water features, and upward away from surface water features. Surface water is likely recharging the surficial aquifer causing a localized increase in heads in the surficial aquifer and a resulting downward vertical gradient.

Table 4–1. Riverton Vertical Gradients

Well ID	Aquifer	Water Elevation June 2005	Water Elevation Oct 2005	Vertical Gradient[a] June 2005	Vertical Gradient Oct 2005
0724	Surficial	4934.11	4933.14		
0725	Semiconfined	4934.25	4933.15	-0.008	-0.0005
0726	Confined	4935.91	4935.30	-0.016	-0.019
0101	Surficial	4935.63	4935.37		
0111	Semiconfined	4937.14	4936.12	-0.056	-0.028
0110	Confined	4934.71	4933.64	0.018	0.033
0731	Surficial	4937.82	4937.29		
0732	Semiconfined	4936.48	4936.01	0.050	0.048
0716	Surficial	4930.95	4929.84		
0717	Semiconfined	4930.84	4929.91	0.003	-0.002
0707	Surficial	4926.00	4925.14		
0705	Semiconfined	4925.06	4924.01	0.033	0.040
0709	Confined	4927.78	4927.73	-0.023	-0.034
0718	Surficial	4929.85	4928.75		
0719	Semiconfined	4930.73	4929.16	-0.045	-0.021
0722	Surficial	4929.55	No data		
0723	Semiconfined	4929.26	4927.91	0.01	NA
0720	Surficial	4935.23	4935.41		
0721	Semiconfined	4932.87	4932.06	0.066	0.093
0729	Surficial	4925.65	4926.51		
0730	Semiconfined	4925.41	4926.15	0.010	0.016
0809	Surficial	4925.42	4924.29		
0735	Semiconfined	4925.21	4923.99	0.012	0.017

[a]Vertical gradient from the semiconfined aquifer is between the semiconfined aquifer and the surficial aquifer, and the vertical gradient from the confined aquifer is between the confined aquifer and the surficial aquifer. A negative value indicates an upward vertical gradient.

4.2 Domestic Wells

All domestic wells sampled in 2005 are completed in the confined aquifer. Results from domestic wells did not indicate any impacts from the Riverton site. Concentrations of molybdenum and uranium in samples collected from domestic wells were two to three orders of magnitude below their respective standards. Data obtained from sampling of domestic wells in 2005 are provided in Appendix B.

4.3 Surface Water

Contaminated ground water likely discharges to the Little Wind River, but there is no evidence of impact to surface water quality in the river. The pond locations (0810 and 0823) and the west side irrigation ditch (0822) had low concentrations of uranium and molybdenum in 2005, indicating minimal impacts from the site. Uranium concentrations over time in river and pond locations are shown in Figure 4–6.

The sample collected at the ditch that carries discharge water from the Peak Sulfur plant (0749) had elevated concentrations of sulfate in 2005 (2,400 mg/L in June). The elevated sulfate concentrations in Peak Sulfur ditch water has affected sulfate concentrations farther downstream in the west side irrigation ditch (1,100 mg/L at location 0822 in June).

Concentrations of uranium have been and continue to be elevated in surface water in the oxbow lake (location 0747), which was formed by a shift in the river path in 1994 (Figure 4–6). Hydraulic and water quality data indicate that the oxbow lake is fed by the discharge of contaminated ground water; therefore, elevated concentrations are expected.

As shown in Figure 4–6, concentrations of uranium in the oxbow lake have been variable over time. This variability is attributed to surface inflow to the lake from the Little Wind River during high river stage, which causes a dilution of uranium concentrations. During the June 2005 sampling event, water was flowing from the river into the oxbow lake, as reflected by the relatively low uranium concentration (0.100 mg/L). As future sampling events are conducted during low river stage (typically October), contaminant concentration trends in the oxbow lake will be evaluated. Surface water quality data by parameter for locations sampled during 2005 are provided in Appendix C.

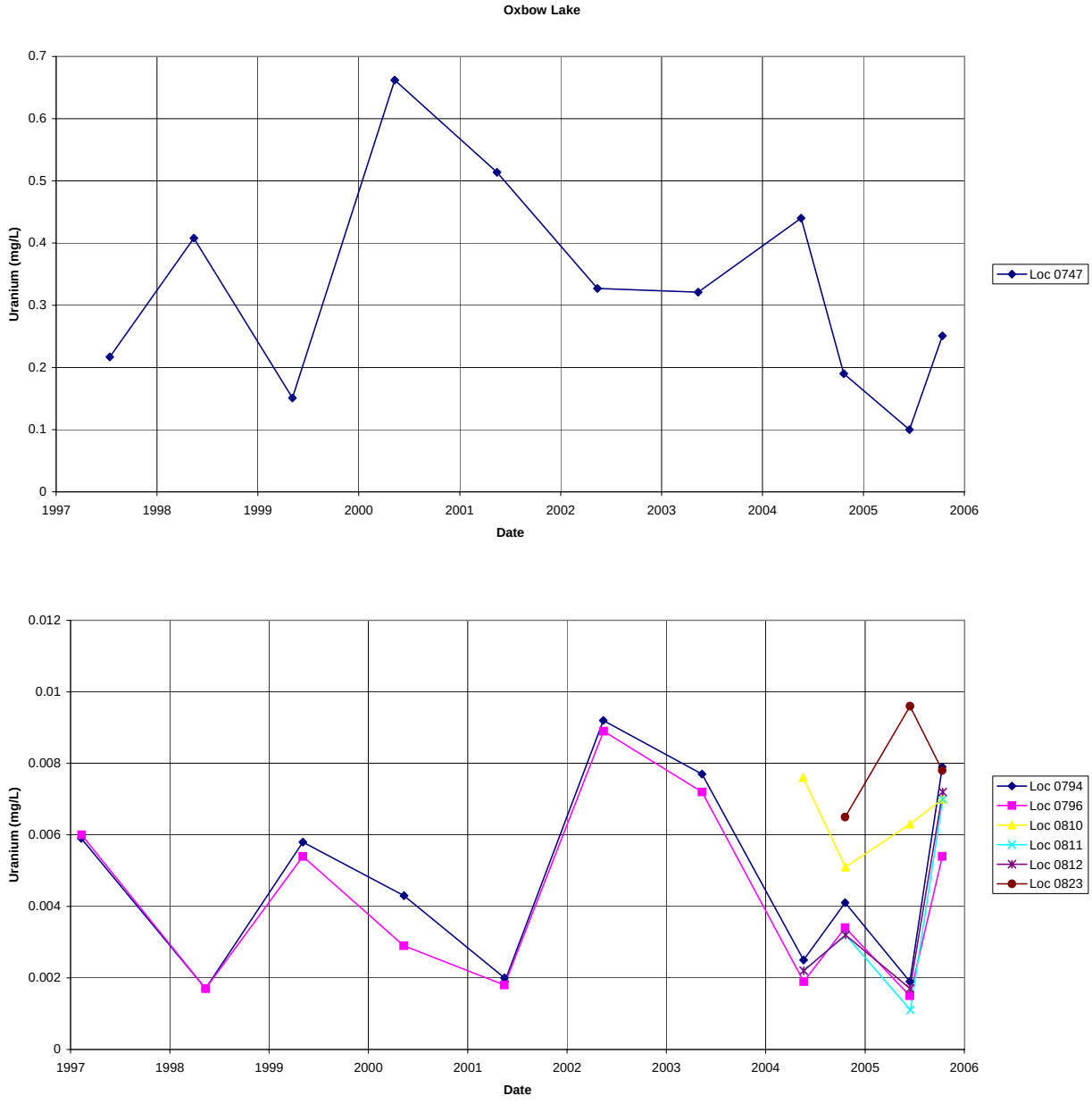

Figure 4–6. Riverton Processing Site Uranium Concentrations in Surface Water

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5.0 Natural Flushing Assessment

Ground water modeling has predicted that the alluvial aquifer will naturally flush contaminants to levels below applicable standards within the 100-year regulatory timeframe, which started with the approval of the GCAP in 1998. To assess the progress of natural flushing, comparison to hydrogeologic modeling predictions, trend analysis and other quantitative techniques are applied to temporal plots of concentrations at individual wells.

Comparison of surficial aquifer concentrations of molybdenum and uranium as predicted by probabilistic hydrogeologic modeling (DOE 1998b) with actual concentrations measured in samples from monitor well 0707 (located near the center of the contaminant plumes) is shown in Figure 5–1. To date, concentrations of molybdenum and uranium in monitor well 0707 are comparable to model predictions with predictions showing cleanup occurring well within the 100 year time frame.

Trend analysis using the Mann-Kendall test (Gilbert 1987) was performed to assess the temporal behavior of uranium concentrations. Uranium was selected as an indicator parameter because: (1) it is widespread throughout the surficial aquifer; (2) its concentration exceeded the standard in numerous wells in the monitoring network during 2005; (3) historical concentrations are up to two orders of magnitude above the standard; and (4) it was one of the constituents whose transport was modeled in previous investigations (DOE 1998b). The Mann-Kendall test determines if an upward trend, downward trend, or no trend exists. As shown in Table 5–1, the four wells that currently exhibit uranium concentrations above the standard show downward trends.

Table 5–1. Assessment of Uranium Concentration Trends and Flushing Times in Wells at the Riverton Site

Well ID	Trend[a]	N[b]	Curve Type	Curve Correlation (r^c)	Estimated Completion (Years)
0707	Downward	12	Exponential	0.8923	50.5
0716	Downward	12	Exponential	0.8866	37.1
0718	Downward	12	Logarithmic	0.9152	109
0722	Downward	11	Exponential	0.8588	34.3

[a]Data collected from 1996 to 2005.
[b]N=number of observations.
[c]r=Correlation coefficient – a value of 1 represents a perfect correlation.

To further assess the progress of natural flushing and estimate the pace with which it is occurring, additional data analysis was conducted. Curve–fitting techniques in Microsoft Excel computer software package were used to approximate actual uranium concentration data (Figure 5–2 and Figure 5–3). Each resulting curve was then extrapolated to the point where it intercepts the uranium standard, and the corresponding time provided an estimate of flushing time. As shown in Table 5–1, the number of years estimated to achieve compliance with the uranium standard ranges from 34.3 to 109. Although 109 years is slightly longer than the 100-year regulatory limit, these estimates collectively indicate that natural flushing is progressing at an acceptable pace. Estimates will likely change as more data are collected. Correlation coefficients resulting from the curve fits to each well's data are listed in Table 5–1. These coefficients estimate of how well the fitted curves match the data, with a perfect correlation equaling 1.

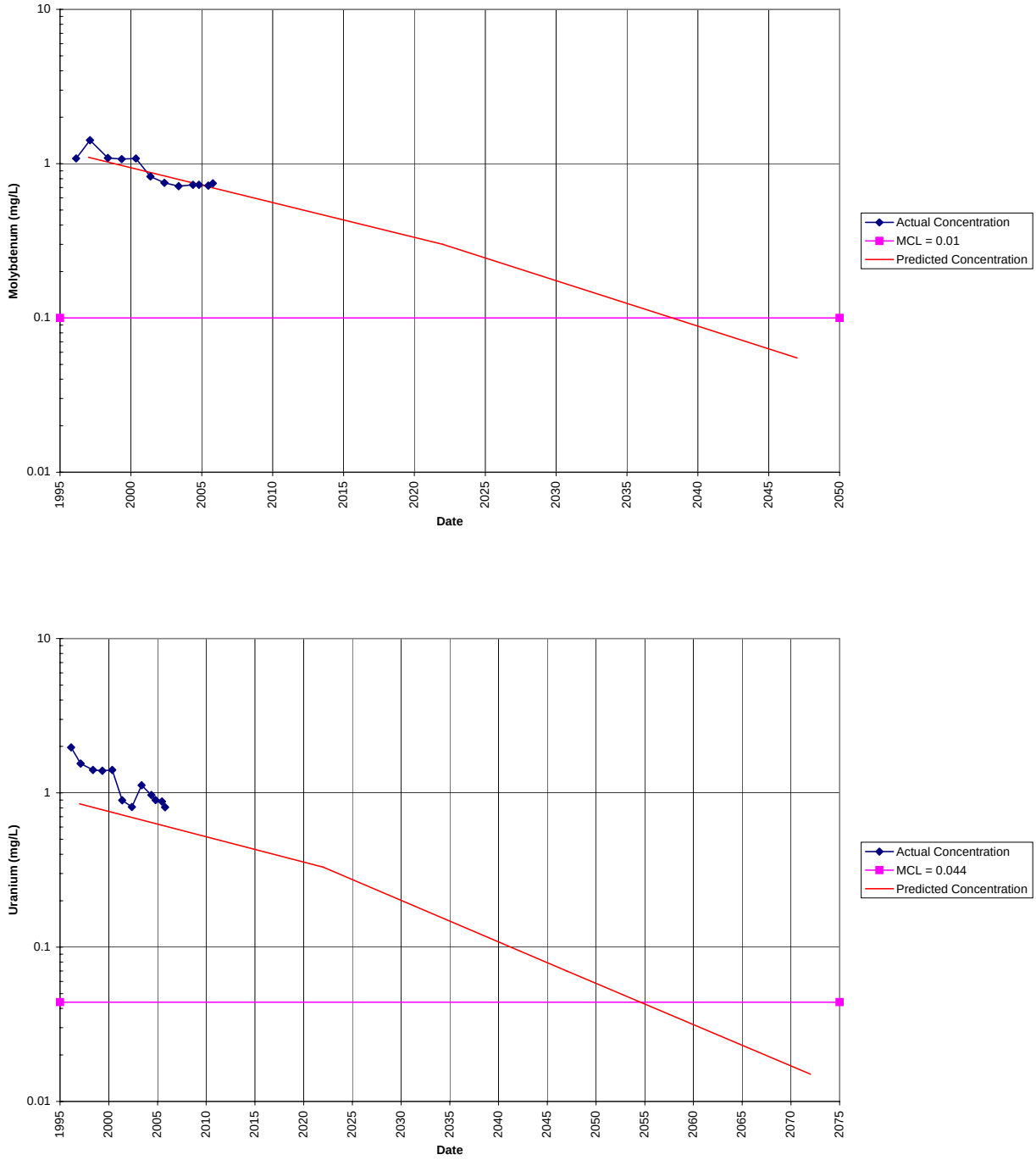


Figure 5–1. Predicted Versus Actual Contaminant Concentrations in Well 0707

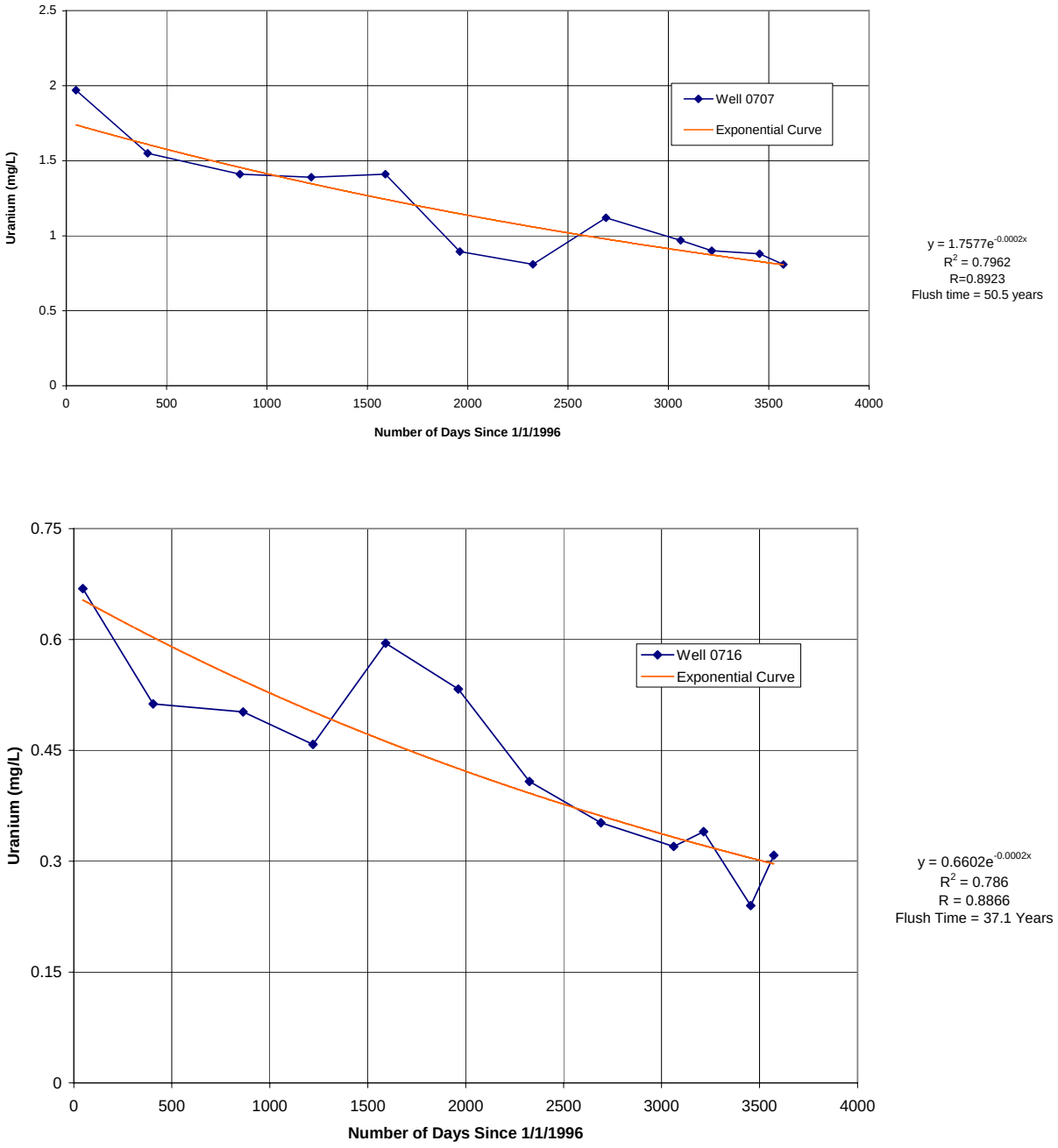
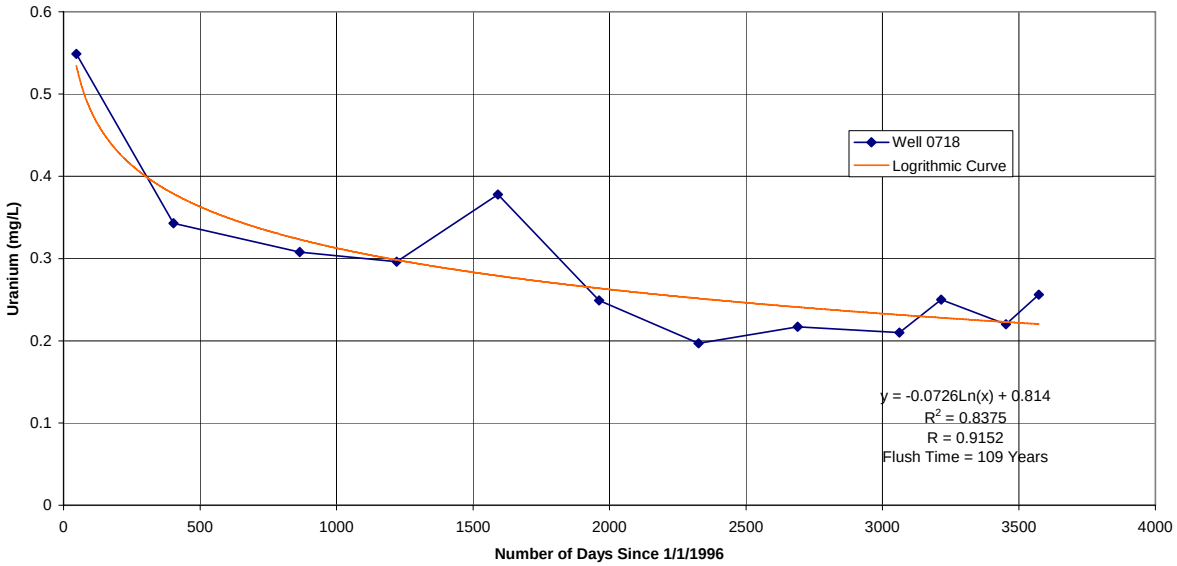


Figure 5–2. Estimated Flushing Time in Surficial Aquifer Wells 0707 and 0716



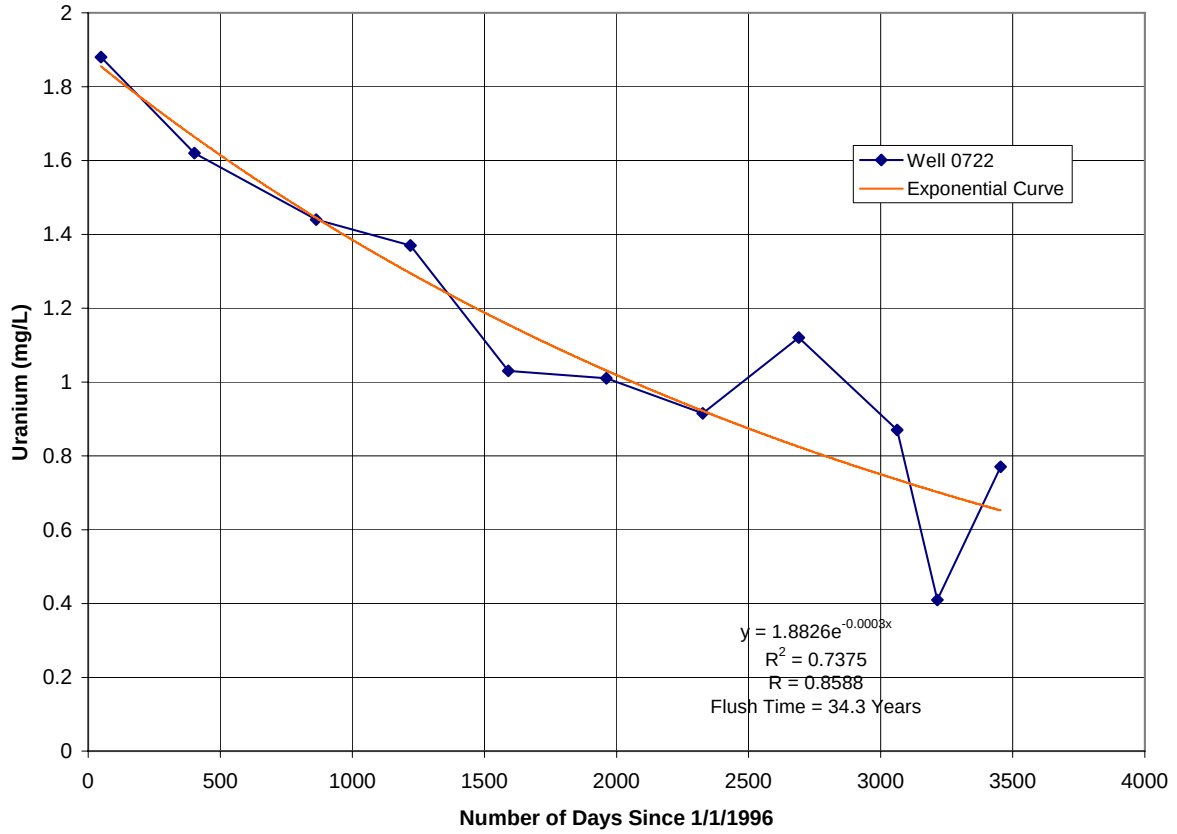


Figure 5–3. Estimated Flushing Time in Surficial Aquifer Wells 0718 and 0722

6.0 Conclusions

Uranium and molybdenum are the indicator constituents for compliance monitoring at the Riverton site (DOE 1998a). While concentrations of both uranium and molybdenum in ground water in the surficial aquifer are still above their respective MCLs, levels are generally decreasing and comparable to modeling predictions, indicating that natural flushing is occurring in the aquifer. Uranium concentrations in wells above the standard show a downward statistical trend, and curve extrapolation of uranium concentrations project a flushing time for most wells in less than 60 years. Data from one well projects a flushing time of slightly more than 100 years. Surface water in the oxbow lake adjacent to the Little Wind River continues to be impacted as it is fed by discharge of shallow ground water from contaminant plumes.

Verification monitoring of ground water and surface water from designated locations will continue on a semiannual basis, and the long-term monitoring program for the site will be specified in the *Long Term Management Plan for the Riverton, Wyoming, Processing Site* (in progress).

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7.0 References

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Appendix A

Ground Water Quality Data

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CLASSIC GROUND WATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/24/2006 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Alkalinity, Total (As CaCO3	mg/L	0705	WL	06/16/2005	N001	SE	D	53		FQ	#	-	-
	mg/L	0705	WL	10/13/2005	N001	SE	D	58		FQ	#	-	-
	mg/L	0707	WL	06/16/2005	N001	SF	D	319		F	#	-	-
	mg/L	0707	WL	10/13/2005	N001	SF	D	333		F	#	-	-
	mg/L	0710	WL	06/14/2005	N001	SF	U	205		F	#	-	-
	mg/L	0710	WL	10/12/2005	N001	SF	U	170		F	#	-	-
	mg/L	0716	WL	06/17/2005	0001	SF	O	304		F	#	-	-
	mg/L	0716	WL	10/12/2005	N001	SF	O	289		F	#	-	-
	mg/L	0717	WL	06/17/2005	0001	SE	O	204		F	#	-	-
	mg/L	0717	WL	10/12/2005	N001	SE	O	112		F	#	-	-
	mg/L	0718	WL	06/15/2005	N001	SF	D	369		F	#	-	-
	mg/L	0718	WL	10/13/2005	N001	SF	D	384		F	#	-	-
	mg/L	0719	WL	06/15/2005	N001	SE	D	104		FQ	#	-	-
	mg/L	0719	WL	10/13/2005	N001	SE	D	122		FQ	#	-	-
	mg/L	0720	WL	06/14/2005	N001	SF	C	234		F	#	-	-
	mg/L	0720	WL	10/11/2005	N001	SF	C	209		F	#	-	-
	mg/L	0721	WL	06/14/2005	0001	SE	C	88		F	#	-	-
	mg/L	0721	WL	10/11/2005	N001	SE	C	97		F	#	-	-
	mg/L	0722	WL	06/16/2005	0001	SF	D	262		F	#	-	-
	mg/L	0723	WL	06/16/2005	N001	SE	D	403		F	#	-	-
	mg/L	0723	WL	10/13/2005	N001	SE	D	403		F	#	-	-
	mg/L	0729	WL	06/15/2005	N001	SF	D	324		F	#	-	-
	mg/L	0729	WL	10/13/2005	N001	SF	D	291		F	#	-	-
	mg/L	0730	WL	06/15/2005	N001	SE	D	317		FQ	#	-	-
	mg/L	0730	WL	10/13/2005	N001	SE	D	256		FQ	#	-	-
	mg/L	0731	WL	06/17/2005	0001	SF	U	762		FQ	#	-	-

CLASSIC GROUND WATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/24/2006 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Alkalinity, Total (As CaCO3	mg/L	0731	WL	10/12/2005	N001	SF	U	634		FQ	#	-	-
	mg/L	0735	WL	06/14/2005	N001	SE	D	141		F	#	-	-
	mg/L	0735	WL	10/12/2005	N001	SE	D	60		F	#	-	-
	mg/L	0788	WL	06/16/2005	N001	SF	C	372		F	#	-	-
	mg/L	0788	WL	10/13/2005	N001	SF	C	376		F	#	-	-
	mg/L	0809	WL	06/14/2005	0001	SF		107		F	#	-	-
	mg/L	0809	WL	10/12/2005	N001	SF		205		F	#	-	-
Manganese	mg/L	0705	WL	06/16/2005	N001	SE	D	0.00063	B	UFQ	#	0.00052	-
	mg/L	0705	WL	10/13/2005	N001	SE	D	0.005	U	FQ	#	0.005	-
	mg/L	0707	WL	06/16/2005	N001	SF	D	1.600		F	#	0.00052	-
	mg/L	0707	WL	06/16/2005	N002	SF	D	1.500		F	#	0.00052	-
	mg/L	0707	WL	10/13/2005	N001	SF	D	1.490		F	#	0.005	-
	mg/L	0710	WL	06/14/2005	N001	SF	U	0.300		F	#	0.00052	-
	mg/L	0710	WL	10/12/2005	N001	SF	U	0.0183		F	#	0.001	-
	mg/L	0716	WL	06/17/2005	N001	SF	O	0.640		F	#	0.00052	-
	mg/L	0716	WL	10/12/2005	N001	SF	O	0.598		F	#	0.005	-
	mg/L	0716	WL	10/12/2005	N002	SF	O	0.605		F	#	0.005	-
	mg/L	0717	WL	06/17/2005	N001	SE	O	0.089		F	#	0.00052	-
	mg/L	0717	WL	10/12/2005	N001	SE	O	0.161		F	#	0.005	-
	mg/L	0718	WL	06/15/2005	N001	SF	D	2.300		F	#	0.00052	-
	mg/L	0718	WL	10/13/2005	N001	SF	D	1.260		F	#	0.001	-
	mg/L	0719	WL	06/15/2005	N001	SE	D	0.190		FQ	#	0.00052	-
	mg/L	0719	WL	10/13/2005	N001	SE	D	0.171		FQ	#	0.001	-
	mg/L	0720	WL	06/14/2005	N001	SF	C	0.120		F	#	0.00052	-
	mg/L	0720	WL	10/11/2005	N001	SF	C	0.0058		F	#	0.001	-
	mg/L	0721	WL	06/14/2005	N001	SE	C	0.0037	B	UF	#	0.00052	-

CLASSIC GROUND WATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/24/2006 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Manganese	mg/L	0721	WL	10/11/2005	N001	SE	C	0.0031	B	F	#	0.001	-
	mg/L	0722	WL	06/16/2005	N001	SF	D	2.200		F	#	0.00052	-
	mg/L	0723	WL	06/16/2005	N001	SE	D	0.710		F	#	0.00052	-
	mg/L	0723	WL	10/13/2005	N001	SE	D	0.611		F	#	0.001	-
	mg/L	0729	WL	06/15/2005	N001	SF	D	0.0026	B	UF	#	0.00052	-
	mg/L	0729	WL	10/13/2005	N001	SF	D	0.005	U	F	#	0.005	-
	mg/L	0730	WL	06/15/2005	N001	SE	D	0.120		FQ	#	0.00052	-
	mg/L	0730	WL	10/13/2005	N001	SE	D	0.0822		FQ	#	0.001	-
	mg/L	0731	WL	06/17/2005	N001	SF	U	0.069		FQ	#	0.00052	-
	mg/L	0731	WL	10/12/2005	N001	SF	U	0.247		FQ	#	0.005	-
	mg/L	0735	WL	06/14/2005	N001	SE	D	0.019		F	#	0.00052	-
	mg/L	0735	WL	10/12/2005	N001	SE	D	0.0216	B	F	#	0.005	-
	mg/L	0788	WL	06/16/2005	N001	SF	C	1.300	N	F	#	0.00052	-
	mg/L	0788	WL	10/13/2005	N001	SF	C	0.357		F	#	0.005	-
	mg/L	0809	WL	06/14/2005	N001	SF		1.600		F	#	0.00052	-
	mg/L	0809	WL	10/12/2005	N001	SF		0.502		F	#	0.005	-
Molybdenum	mg/L	0705	WL	06/16/2005	N001	SE	D	0.0029		FQJ	#	0.00021	-
	mg/L	0705	WL	10/13/2005	N001	SE	D	0.0027		FQ	#	0.0005	-
	mg/L	0707	WL	06/16/2005	N001	SF	D	0.720		F	#	0.0042	-
	mg/L	0707	WL	06/16/2005	N002	SF	D	0.720		F	#	0.0042	-
	mg/L	0707	WL	10/13/2005	N001	SF	D	0.745		F	#	0.0005	-
	mg/L	0710	WL	06/14/2005	N001	SF	U	0.0019		FJ	#	0.00021	-
	mg/L	0710	WL	10/12/2005	N001	SF	U	0.002		F	#	0.0001	-
	mg/L	0716	WL	06/17/2005	N001	SF	O	0.190		F	#	0.001	-
	mg/L	0716	WL	10/12/2005	N001	SF	O	0.160		F	#	0.0005	-
	mg/L	0716	WL	10/12/2005	N002	SF	O	0.163		F	#	0.0005	-

CLASSIC GROUND WATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE RVT01, Riverton Processing Site
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PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Molybdenum	mg/L	0717	WL	06/17/2005	N001	SE	O	0.0068		F	#	0.00021	-
	mg/L	0717	WL	10/12/2005	N001	SE	O	0.0062		F	#	0.0005	-
	mg/L	0718	WL	06/15/2005	N001	SF	D	0.096		F	#	0.0042	-
	mg/L	0718	WL	10/13/2005	N001	SF	D	0.134		F	#	0.0001	-
	mg/L	0719	WL	06/15/2005	N001	SE	D	0.013		FQ	#	0.00021	-
	mg/L	0719	WL	10/13/2005	N001	SE	D	0.0131		FQ	#	0.0001	-
	mg/L	0720	WL	06/14/2005	N001	SF	C	0.0024		FJ	#	0.00021	-
	mg/L	0720	WL	10/11/2005	N001	SF	C	0.002		F	#	0.0001	-
	mg/L	0721	WL	06/14/2005	N001	SE	C	0.0032		FJ	#	0.00021	-
	mg/L	0721	WL	10/11/2005	N001	SE	C	0.0028		F	#	0.0001	-
	mg/L	0722	WL	06/16/2005	N001	SF	D	0.100		F	#	0.0042	-
	mg/L	0723	WL	06/16/2005	N001	SE	D	0.00034	B	UF	#	0.00021	-
	mg/L	0723	WL	10/13/2005	N001	SE	D	0.00035	B	F	#	0.0001	-
	mg/L	0729	WL	06/15/2005	N001	SF	D	0.0037		FJ	#	0.00021	-
	mg/L	0729	WL	10/13/2005	N001	SF	D	0.0037		F	#	0.0005	-
	mg/L	0730	WL	06/15/2005	N001	SE	D	0.0011		UFQ	#	0.00021	-
	mg/L	0730	WL	10/13/2005	N001	SE	D	0.003		FQ	#	0.0001	-
	mg/L	0731	WL	06/17/2005	N001	SF	U	0.070		FQ	#	0.00021	-
	mg/L	0731	WL	10/12/2005	N001	SF	U	0.0453		FQ	#	0.0005	-
	mg/L	0735	WL	06/14/2005	N001	SE	D	0.0031		FJ	#	0.00021	-
	mg/L	0735	WL	10/12/2005	N001	SE	D	0.0025	B	F	#	0.0005	-
	mg/L	0788	WL	06/16/2005	N001	SF	C	0.035		F	#	0.00021	-
	mg/L	0788	WL	10/13/2005	N001	SF	C	0.032		F	#	0.0005	-
	mg/L	0809	WL	06/14/2005	N001	SF		0.002		FJ	#	0.00021	-
	mg/L	0809	WL	10/12/2005	N001	SF		0.0016	B	F	#	0.0005	-
Oxidation Reduction Potent	mV	0705	WL	06/16/2005	N001	SE	D	106		FQ	#	-	-

CLASSIC GROUND WATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE RVT01, Riverton Processing Site
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PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Oxidation Reduction Potent	mV	0705	WL	10/13/2005	N001	SE	D	83.7		FQ	#	-	-
	mV	0707	WL	06/16/2005	N001	SF	D	65		F	#	-	-
	mV	0707	WL	10/13/2005	N001	SF	D	94		F	#	-	-
	mV	0710	WL	06/14/2005	N001	SF	U	102		F	#	-	-
	mV	0710	WL	10/12/2005	N001	SF	U	131		F	#	-	-
	mV	0716	WL	06/17/2005	N001	SF	O	72.8		F	#	-	-
	mV	0716	WL	10/12/2005	N001	SF	O	47		F	#	-	-
	mV	0717	WL	06/17/2005	N001	SE	O	62.6		F	#	-	-
	mV	0717	WL	10/12/2005	N001	SE	O	-138		F	#	-	-
	mV	0718	WL	06/15/2005	N001	SF	D	66		F	#	-	-
	mV	0718	WL	10/13/2005	N001	SF	D	-62		F	#	-	-
	mV	0719	WL	06/15/2005	N001	SE	D	90.6		FQ	#	-	-
	mV	0719	WL	10/13/2005	N001	SE	D	-227		FQ	#	-	-
	mV	0720	WL	06/14/2005	N001	SF	C	91		F	#	-	-
	mV	0720	WL	10/11/2005	N001	SF	C	149		F	#	-	-
	mV	0721	WL	06/14/2005	N001	SE	C	79		F	#	-	-
	mV	0721	WL	10/11/2005	N001	SE	C	-59		F	#	-	-
	mV	0722	WL	06/16/2005	N001	SF	D	76		F	#	-	-
	mV	0723	WL	06/16/2005	N001	SE	D	79		F	#	-	-
	mV	0723	WL	10/13/2005	N001	SE	D	-111		F	#	-	-
	mV	0729	WL	06/15/2005	N001	SF	D	89		F	#	-	-
	mV	0729	WL	10/13/2005	N001	SF	D	5		F	#	-	-
	mV	0730	WL	06/15/2005	N001	SE	D	74		FQ	#	-	-
	mV	0730	WL	10/13/2005	N001	SE	D	-177		FQ	#	-	-
	mV	0731	WL	06/17/2005	N001	SF	U	83.7		FQ	#	-	-
	mV	0731	WL	10/12/2005	N001	SF	U	115		FQ	#	-	-

CLASSIC GROUND WATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE RVT01, Riverton Processing Site
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PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Oxidation Reduction Potent	mV	0735	WL	06/14/2005	N001	SE	D	76.2		F	#	-	-
	mV	0735	WL	10/12/2005	N001	SE	D	89		F	#	-	-
	mV	0788	WL	06/16/2005	N001	SF	C	81		F	#	-	-
	mV	0788	WL	10/13/2005	N001	SF	C	42		F	#	-	-
	mV	0809	WL	06/14/2005	N001	SF		79		F	#	-	-
	mV	0809	WL	10/12/2005	N001	SF		76.4		F	#	-	-
pH	s.u.	0705	WL	06/16/2005	N001	SE	D	7.90		FQ	#	-	-
	s.u.	0705	WL	10/13/2005	N001	SE	D	8.42		FQ	#	-	-
	s.u.	0707	WL	06/16/2005	N001	SF	D	6.90		F	#	-	-
	s.u.	0707	WL	10/13/2005	N001	SF	D	7.01		F	#	-	-
	s.u.	0710	WL	06/14/2005	N001	SF	U	6.97		F	#	-	-
	s.u.	0710	WL	10/12/2005	N001	SF	U	7.59		F	#	-	-
	s.u.	0716	WL	06/17/2005	N001	SF	O	7.04		F	#	-	-
	s.u.	0716	WL	10/12/2005	N001	SF	O	7.15		F	#	-	-
	s.u.	0717	WL	06/17/2005	N001	SE	O	7.55		F	#	-	-
	s.u.	0717	WL	10/12/2005	N001	SE	O	7.79		F	#	-	-
	s.u.	0718	WL	06/15/2005	N001	SF	D	7.04		F	#	-	-
	s.u.	0718	WL	10/13/2005	N001	SF	D	7.08		F	#	-	-
	s.u.	0719	WL	06/15/2005	N001	SE	D	7.42		FQ	#	-	-
	s.u.	0719	WL	10/13/2005	N001	SE	D	7.65		FQ	#	-	-
	s.u.	0720	WL	06/14/2005	N001	SF	C	7.01		F	#	-	-
	s.u.	0720	WL	10/11/2005	N001	SF	C	7.37		F	#	-	-
	s.u.	0721	WL	06/14/2005	N001	SE	C	8.47		F	#	-	-
	s.u.	0721	WL	10/11/2005	N001	SE	C	8.85		F	#	-	-
	s.u.	0722	WL	06/16/2005	N001	SF	D	6.81		F	#	-	-
	s.u.	0723	WL	06/16/2005	N001	SE	D	6.97		F	#	-	-

CLASSIC GROUND WATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE RVT01, Riverton Processing Site
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PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
pH	s.u.	0723	WL	10/13/2005	N001	SE	D	7.02		F	#	-	-
	s.u.	0729	WL	06/15/2005	N001	SF	D	6.89		F	#	-	-
	s.u.	0729	WL	10/13/2005	N001	SF	D	7.16		F	#	-	-
	s.u.	0730	WL	06/15/2005	N001	SE	D	7.15		FQ	#	-	-
	s.u.	0730	WL	10/13/2005	N001	SE	D	7.46		FQ	#	-	-
	s.u.	0731	WL	06/17/2005	N001	SF	U	8.07		FQ	#	-	-
	s.u.	0731	WL	10/12/2005	N001	SF	U	8.08		FQ	#	-	-
	s.u.	0735	WL	06/14/2005	N001	SE	D	7.52		F	#	-	-
	s.u.	0735	WL	10/12/2005	N001	SE	D	7.73		F	#	-	-
	s.u.	0788	WL	06/16/2005	N001	SF	C	7.07		F	#	-	-
	s.u.	0788	WL	10/13/2005	N001	SF	C	7.40		F	#	-	-
	s.u.	0809	WL	06/14/2005	N001	SF		7.29		F	#	-	-
	s.u.	0809	WL	10/12/2005	N001	SF		7.45		F	#	-	-
Specific Conductance	umhos/cm	0705	WL	06/16/2005	N001	SE	D	1042		FQ	#	-	-
	umhos/cm	0705	WL	10/13/2005	N001	SE	D	1202		FQ	#	-	-
	umhos/cm	0707	WL	06/16/2005	N001	SF	D	3510		F	#	-	-
	umhos/cm	0707	WL	10/13/2005	N001	SF	D	4091		F	#	-	-
	umhos/cm	0710	WL	06/14/2005	N001	SF	U	627		F	#	-	-
	umhos/cm	0710	WL	10/12/2005	N001	SF	U	434		F	#	-	-
	umhos/cm	0716	WL	06/17/2005	N001	SF	O	1185		F	#	-	-
	umhos/cm	0716	WL	10/12/2005	N001	SF	O	1405		F	#	-	-
	umhos/cm	0717	WL	06/17/2005	N001	SE	O	1560		F	#	-	-
	umhos/cm	0717	WL	10/12/2005	N001	SE	O	1823		F	#	-	-
	umhos/cm	0718	WL	06/15/2005	N001	SF	D	3318		F	#	-	-
	umhos/cm	0718	WL	10/13/2005	N001	SF	D	4208		F	#	-	-
	umhos/cm	0719	WL	06/15/2005	N001	SE	D	974		FQ	#	-	-

CLASSIC GROUND WATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE RVT01, Riverton Processing Site
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PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Specific Conductance	umhos/cm	0719	WL	10/13/2005	N001	SE	D	1108		FQ	#	-	-
	umhos/cm	0720	WL	06/14/2005	N001	SF	C	856		F	#	-	-
	umhos/cm	0720	WL	10/11/2005	N001	SF	C	590		F	#	-	-
	umhos/cm	0721	WL	06/14/2005	N001	SE	C	779		F	#	-	-
	umhos/cm	0721	WL	10/11/2005	N001	SE	C	853		F	#	-	-
	umhos/cm	0722	WL	06/16/2005	N001	SF	D	1758		F	#	-	-
	umhos/cm	0723	WL	06/16/2005	N001	SE	D	3275		F	#	-	-
	umhos/cm	0723	WL	10/13/2005	N001	SE	D	3987		F	#	-	-
	umhos/cm	0729	WL	06/15/2005	N001	SF	D	765		F	#	-	-
	umhos/cm	0729	WL	10/13/2005	N001	SF	D	680		F	#	-	-
	umhos/cm	0730	WL	06/15/2005	N001	SE	D	797		FQ	#	-	-
	umhos/cm	0730	WL	10/13/2005	N001	SE	D	966		FQ	#	-	-
	umhos/cm	0731	WL	06/17/2005	N001	SF	U	3936		FQ	#	-	-
	umhos/cm	0731	WL	10/12/2005	N001	SF	U	4812		FQ	#	-	-
	umhos/cm	0735	WL	06/14/2005	N001	SE	D	1402		F	#	-	-
	umhos/cm	0735	WL	10/12/2005	N001	SE	D	1480		F	#	-	-
	umhos/cm	0788	WL	06/16/2005	N001	SF	C	1907		F	#	-	-
	umhos/cm	0788	WL	10/13/2005	N001	SF	C	2096		F	#	-	-
	umhos/cm	0809	WL	06/14/2005	N001	SF		1018		F	#	-	-
	umhos/cm	0809	WL	10/12/2005	N001	SF		947		F	#	-	-
Sulfate	mg/L	0705	WL	06/16/2005	N001	SE	D	420		FQ	#	5	-
	mg/L	0705	WL	10/13/2005	N001	SE	D	422		FQ	#	2.28	-
	mg/L	0707	WL	06/16/2005	N001	SF	D	2300		F	#	25	-
	mg/L	0707	WL	06/16/2005	N002	SF	D	2400		F	#	25	-
	mg/L	0707	WL	10/13/2005	N001	SF	D	2210		F	#	5.7	-
	mg/L	0710	WL	06/14/2005	N001	SF	U	120		F	#	2.5	-

CLASSIC GROUND WATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/24/2006 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	SAMPLE: ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	QUALIFIERS: DATA	QUALIFIERS: QA	DETECTION LIMIT	UN-CERTAINTY
Sulfate	mg/L	0710	WL	10/12/2005	N001	SF	U	62.4		F	#	0.114	-
	mg/L	0716	WL	06/17/2005	N001	SF	O	420		F	#	10	-
	mg/L	0716	WL	10/12/2005	N001	SF	O	466		F	#	1.14	-
	mg/L	0716	WL	10/12/2005	N002	SF	O	457		F	#	1.43	-
	mg/L	0717	WL	06/17/2005	N001	SE	O	700		F	#	10	-
	mg/L	0717	WL	10/12/2005	N001	SE	O	666		F	#	2.85	-
	mg/L	0718	WL	06/15/2005	N001	SF	D	1800		F	#	25	-
	mg/L	0718	WL	10/13/2005	N001	SF	D	2060		F	#	28.5	-
	mg/L	0719	WL	06/15/2005	N001	SE	D	380		FQ	#	5	-
	mg/L	0719	WL	10/13/2005	N001	SE	D	397		FQ	#	5.7	-
	mg/L	0720	WL	06/14/2005	N001	SF	C	250		F	#	5	-
	mg/L	0720	WL	10/11/2005	N001	SF	C	105		F	#	0.285	-
	mg/L	0721	WL	06/14/2005	N001	SE	C	270		F	#	5	-
	mg/L	0721	WL	10/11/2005	N001	SE	C	265		F	#	1.14	-
	mg/L	0722	WL	06/16/2005	N001	SF	D	1000		F	#	10	-
	mg/L	0723	WL	06/16/2005	N001	SE	D	1900		F	#	25	-
	mg/L	0723	WL	10/13/2005	N001	SE	D	1940		F	#	28.5	-
	mg/L	0729	WL	06/15/2005	N001	SF	D	120		F	#	2.5	-
	mg/L	0729	WL	10/13/2005	N001	SF	D	71.3		F	#	0.285	-
	mg/L	0730	WL	06/15/2005	N001	SE	D	170		FQ	#	5	-
	mg/L	0730	WL	10/13/2005	N001	SE	D	188		FQ	#	2.85	-
	mg/L	0731	WL	06/17/2005	N001	SF	U	1900		FQ	#	25	-
	mg/L	0731	WL	10/12/2005	N001	SF	U	2040		FQ	#	5.7	-
	mg/L	0735	WL	06/14/2005	N001	SE	D	630		F	#	10	-
	mg/L	0735	WL	10/12/2005	N001	SE	D	545		F	#	2.28	-
	mg/L	0788	WL	06/16/2005	N001	SF	C	850		F	#	10	-

CLASSIC GROUND WATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/24/2006 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Sulfate	mg/L	0788	WL	10/13/2005	N001	SF	C	761		F	#	2.85	-
	mg/L	0809	WL	06/14/2005	N001	SF		430		F	#	5	-
	mg/L	0809	WL	10/12/2005	N001	SF		312		F	#	1.14	-
Temperature	C	0705	WL	06/16/2005	N001	SE	D	11.26		FQ	#	-	-
	C	0705	WL	10/13/2005	N001	SE	D	9.86		FQ	#	-	-
	C	0707	WL	06/16/2005	N001	SF	D	11.04		F	#	-	-
	C	0707	WL	10/13/2005	N001	SF	D	12.13		F	#	-	-
	C	0710	WL	06/14/2005	N001	SF	U	9.14		F	#	-	-
	C	0710	WL	10/12/2005	N001	SF	U	11.24		F	#	-	-
	C	0716	WL	06/17/2005	N001	SF	O	11.74		F	#	-	-
	C	0716	WL	10/12/2005	N001	SF	O	14.60		F	#	-	-
	C	0717	WL	06/17/2005	N001	SE	O	11.69		F	#	-	-
	C	0717	WL	10/12/2005	N001	SE	O	12.30		F	#	-	-
	C	0718	WL	06/15/2005	N001	SF	D	12.87		F	#	-	-
	C	0718	WL	10/13/2005	N001	SF	D	15.23		F	#	-	-
	C	0719	WL	06/15/2005	N001	SE	D	14.47		FQ	#	-	-
	C	0719	WL	10/13/2005	N001	SE	D	14.21		FQ	#	-	-
	C	0720	WL	06/14/2005	N001	SF	C	11.41		F	#	-	-
	C	0720	WL	10/11/2005	N001	SF	C	14.19		F	#	-	-
	C	0721	WL	06/14/2005	N001	SE	C	12.22		F	#	-	-
	C	0721	WL	10/11/2005	N001	SE	C	11.99		F	#	-	-
	C	0722	WL	06/16/2005	N001	SF	D	12.22		F	#	-	-
	C	0723	WL	06/16/2005	N001	SE	D	14.84		F	#	-	-
	C	0723	WL	10/13/2005	N001	SE	D	14.39		F	#	-	-
	C	0729	WL	06/15/2005	N001	SF	D	13.02		F	#	-	-
	C	0729	WL	10/13/2005	N001	SF	D	15.70		F	#	-	-

CLASSIC GROUND WATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/24/2006 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Temperature	C	0730	WL	06/15/2005	N001	SE	D	14.65		FQ	#	-	-
	C	0730	WL	10/13/2005	N001	SE	D	14.42		FQ	#	-	-
	C	0731	WL	06/17/2005	N001	SF	U	16.61		FQ	#	-	-
	C	0731	WL	10/12/2005	N001	SF	U	14.26		FQ	#	-	-
	C	0735	WL	06/14/2005	N001	SE	D	11.50		F	#	-	-
	C	0735	WL	10/12/2005	N001	SE	D	16.46		F	#	-	-
	C	0788	WL	06/16/2005	N001	SF	C	11.58		F	#	-	-
	C	0788	WL	10/13/2005	N001	SF	C	11.66		F	#	-	-
	C	0809	WL	06/14/2005	N001	SF		11.64		F	#	-	-
	C	0809	WL	10/12/2005	N001	SF		17.11		F	#	-	-
Turbidity	NTU	0705	WL	06/16/2005	N001	SE	D	5.74		FQ	#	-	-
	NTU	0705	WL	10/13/2005	N001	SE	D	0.96		FQ	#	-	-
	NTU	0707	WL	06/16/2005	N001	SF	D	1.96		F	#	-	-
	NTU	0707	WL	10/13/2005	N001	SF	D	0.92		F	#	-	-
	NTU	0710	WL	06/14/2005	N001	SF	U	4.10		F	#	-	-
	NTU	0710	WL	10/12/2005	N001	SF	U	0.89		F	#	-	-
	NTU	0716	WL	06/17/2005	N001	SF	O	7.74		F	#	-	-
	NTU	0716	WL	10/12/2005	N001	SF	O	2.68		F	#	-	-
	NTU	0717	WL	06/17/2005	N001	SE	O	1.60		F	#	-	-
	NTU	0717	WL	10/12/2005	N001	SE	O	4.17		F	#	-	-
	NTU	0718	WL	06/15/2005	N001	SF	D	5.00		F	#	-	-
	NTU	0718	WL	10/13/2005	N001	SF	D	1.74		F	#	-	-
	NTU	0719	WL	06/15/2005	N001	SE	D	1.20		FQ	#	-	-
	NTU	0719	WL	10/13/2005	N001	SE	D	6.21		FQ	#	-	-
	NTU	0720	WL	06/14/2005	N001	SF	C	0.84		F	#	-	-
	NTU	0720	WL	10/11/2005	N001	SF	C	0.67		F	#	-	-

CLASSIC GROUND WATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/24/2006 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	SAMPLE: ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	QUALIFIERS: DATA	QUALIFIERS: QA	DETECTION LIMIT	UN-CERTAINTY
Turbidity	NTU	0721	WL	06/14/2005	N001	SE	C	1.08		F	#	-	-
	NTU	0721	WL	10/11/2005	N001	SE	C	0.82		F	#	-	-
	NTU	0722	WL	06/16/2005	N001	SF	D	7.38		F	#	-	-
	NTU	0723	WL	06/16/2005	N001	SE	D	2.40		F	#	-	-
	NTU	0723	WL	10/13/2005	N001	SE	D	2.55		F	#	-	-
	NTU	0729	WL	06/15/2005	N001	SF	D	0.89		F	#	-	-
	NTU	0729	WL	10/13/2005	N001	SF	D	2.78		F	#	-	-
	NTU	0730	WL	06/15/2005	N001	SE	D	6.17		FQ	#	-	-
	NTU	0730	WL	10/13/2005	N001	SE	D	3.92		FQ	#	-	-
	NTU	0731	WL	06/17/2005	N001	SF	U	1.16		FQ	#	-	-
	NTU	0731	WL	10/12/2005	N001	SF	U	2.48		FQ	#	-	-
	NTU	0735	WL	06/14/2005	N001	SE	D	0.39		F	#	-	-
	NTU	0735	WL	10/12/2005	N001	SE	D	1.18		F	#	-	-
	NTU	0788	WL	06/16/2005	N001	SF	C	9.96		F	#	-	-
	NTU	0788	WL	10/13/2005	N001	SF	C	1.47		F	#	-	-
	NTU	0809	WL	06/14/2005	N001	SF		0.57		F	#	-	-
	NTU	0809	WL	10/12/2005	N001	SF		4.56		F	#	-	-
Uranium	mg/L	0705	WL	06/16/2005	N001	SE	D	0.00012		UFQ	#	2.2E-06	-
	mg/L	0705	WL	10/13/2005	N001	SE	D	0.00025	U	FQ	#	0.00025	-
	mg/L	0707	WL	06/16/2005	N001	SF	D	0.880		F	#	4.5E-05	-
	mg/L	0707	WL	06/16/2005	N002	SF	D	0.880		F	#	4.5E-05	-
	mg/L	0707	WL	10/13/2005	N001	SF	D	0.808		F	#	0.00025	-
	mg/L	0710	WL	06/14/2005	N001	SF	U	0.0041		F	#	2.2E-06	-
	mg/L	0710	WL	10/12/2005	N001	SF	U	0.0025		F	#	0.00005	-
	mg/L	0716	WL	06/17/2005	N001	SF	O	0.240		F	#	1.1E-05	-
	mg/L	0716	WL	10/12/2005	N001	SF	O	0.300		F	#	0.00025	-

CLASSIC GROUND WATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/24/2006 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Uranium	mg/L	0716	WL	10/12/2005	N002	SF	O	0.308		F	#	0.00025	-
	mg/L	0717	WL	06/17/2005	N001	SE	O	0.00007	B	UF	#	2.2E-06	-
	mg/L	0717	WL	10/12/2005	N001	SE	O	0.00025	U	F	#	0.00025	-
	mg/L	0718	WL	06/15/2005	N001	SF	D	0.220		F	#	4.5E-05	-
	mg/L	0718	WL	10/13/2005	N001	SF	D	0.256		F	#	0.00005	-
	mg/L	0719	WL	06/15/2005	N001	SE	D	0.0011		FQ	#	2.2E-06	-
	mg/L	0719	WL	10/13/2005	N001	SE	D	0.00087		FQ	#	0.00005	-
	mg/L	0720	WL	06/14/2005	N001	SF	C	0.0062		F	#	2.2E-06	-
	mg/L	0720	WL	10/11/2005	N001	SF	C	0.0041		F	#	0.00005	-
	mg/L	0721	WL	06/14/2005	N001	SE	C	0.00008	B	UF	#	2.2E-06	-
	mg/L	0721	WL	10/11/2005	N001	SE	C	0.00009	B	F	#	0.00005	-
	mg/L	0722	WL	06/16/2005	N001	SF	D	0.770		F	#	4.5E-05	-
	mg/L	0723	WL	06/16/2005	N001	SE	D	0.00007	B	UF	#	2.2E-06	-
	mg/L	0723	WL	10/13/2005	N001	SE	D	0.00012	B	F	#	0.00005	-
	mg/L	0729	WL	06/15/2005	N001	SF	D	0.017		F	#	2.2E-06	-
	mg/L	0729	WL	10/13/2005	N001	SF	D	0.007		F	#	0.00025	-
	mg/L	0730	WL	06/15/2005	N001	SE	D	0.0033		FQ	#	2.2E-06	-
	mg/L	0730	WL	10/13/2005	N001	SE	D	0.0075		FQ	#	0.00005	-
	mg/L	0731	WL	06/17/2005	N001	SF	U	0.013		FQ	#	2.2E-06	-
	mg/L	0731	WL	10/12/2005	N001	SF	U	0.0051		FQ	#	0.00025	-
	mg/L	0735	WL	06/14/2005	N001	SE	D	0.00025		UF	#	2.2E-06	-
	mg/L	0735	WL	10/12/2005	N001	SE	D	0.00057	B	F	#	0.00025	-
	mg/L	0788	WL	06/16/2005	N001	SF	C	0.042		F	#	2.2E-06	-
	mg/L	0788	WL	10/13/2005	N001	SF	C	0.0372		F	#	0.00025	-
	mg/L	0809	WL	06/14/2005	N001	SF		0.0033		F	#	2.2E-06	-
	mg/L	0809	WL	10/12/2005	N001	SF		0.0051		F	#	0.00025	-

CLASSIC GROUND WATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/24/2006 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY

RECORDS: SELECTED FROM USEE200 WHERE site_code='RVT01' AND location_code in('0705','0707','0710','0716','0717','0718','0719','0720','0721','0722','0723','0729','0730','0731','0735','0788','0809') AND quality_assurance = TRUE AND (data_validation_qualifiers IS NULL OR data_validation_qualifiers NOT LIKE '%R%' AND data_validation_qualifiers NOT LIKE '%X%') AND DATE_SAMPLED between #1/1/2005# and #12/31/2005#

SAMPLE ID CODES: 000X = Filtered sample (0.45 µm). N00X = Unfiltered sample. X = replicate number.

LOCATION TYPES: WL WELL

ZONES OF COMPLETION:

SE SEMICONFINED SANDSTONE SF SURFICIAL

FLOW CODES: C CROSS GRADIENT D DOWN GRADIENT O ON-SITE U UPGRADIENT

LAB QUALIFIERS:

*	Replicate analysis not within control limits.
+	Correlation coefficient for MSA < 0.995.
>	Result above upper detection limit.
A	TIC is a suspected aldol-condensation product.
B	Inorganic: Result is between the IDL and CRDL. Organic & Radiochemistry: Analyte also found in method blank.
C	Pesticide result confirmed by GC-MS.
D	Analyte determined in diluted sample.
E	Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
H	Holding time expired, value suspect.
I	Increased detection limit due to required dilution.
J	Estimated
M	GFAA duplicate injection precision not met.
N	Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compund (TIC).
P	> 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
S	Result determined by method of standard addition (MSA).
U	Analytical result below detection limit.
W	Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
X	Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
Y	Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
Z	Laboratory defined (USEPA CLP organic) qualifier, see case narrative.

DATA QUALIFIERS:

F	Low flow sampling method used.	G	Possible grout contamination, pH > 9.	J	Estimated value.
L	Less than 3 bore volumes purged prior to sampling.	Q	Qualitative result due to sampling technique	R	Unusable result.
U	Parameter analyzed for but was not detected.	X	Location is undefined.		

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

Appendix B

Domestic Well Data

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CLASSIC GROUND WATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/24/2006 4:18 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	SAMPLE: ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	QUALIFIERS: DATA	QUALIFIERS: QA	DETECTION LIMIT	UN-CERTAINTY
Alkalinity, Total (As CaCO3	mg/L	0405	WL	06/15/2005	0001	NR	N	111			#	-	-
	mg/L	0405	WL	10/11/2005	N001	NR	N	29			#	-	-
	mg/L	0422	WL	06/15/2005	0001	NR	N	191			#	-	-
	mg/L	0422	WL	10/11/2005	N001	NR	N	135			#	-	-
	mg/L	0430	WL	06/15/2005	N001	NR	N	157			#	-	-
	mg/L	0430	WL	10/11/2005	N001	NR	N	169			#	-	-
	mg/L	0436	WL	06/14/2005	0001	NR	N	158			#	-	-
	mg/L	0436	WL	10/11/2005	N001	NR	N	157			#	-	-
	mg/L	0446	WL	06/16/2005	N001	NR	N	158			#	-	-
	mg/L	0446	WL	10/10/2005	N001	NR	N	163			#	-	-
	mg/L	0454	WL	06/14/2005	N001			172			#	-	-
	mg/L	0454	WL	10/11/2005	N001			135			#	-	-
	mg/L	0460	WL	06/15/2005	0001	NR	N	158			#	-	-
	mg/L	0460	WL	10/11/2005	N001	NR	N	174			#	-	-
	mg/L	0828	WL	06/14/2005	0001		O	148			#	-	-
	mg/L	0828	WL	10/11/2005	N001		O	146			#	-	-
	mg/L	0951	WL	06/14/2005	0001	NR	N	123			#	-	-
	mg/L	0951	WL	10/11/2005	N001	NR	N	102			#	-	-
Manganese	mg/L	0405	WL	06/15/2005	N001	NR	N	0.0033	B	U	#	0.00052	-
	mg/L	0405	WL	10/11/2005	N001	NR	N	0.0035	B		#	0.001	-
	mg/L	0422	WL	06/15/2005	N001	NR	N	0.00057	B	U	#	0.00052	-
	mg/L	0422	WL	10/11/2005	N001	NR	N	0.0024	B		#	0.001	-
	mg/L	0430	WL	06/15/2005	N001	NR	N	0.0032	B	U	#	0.00052	-
	mg/L	0430	WL	10/11/2005	N001	NR	N	0.0081			#	0.001	-
	mg/L	0436	WL	06/14/2005	N001	NR	N	0.012			#	0.00052	-
	mg/L	0436	WL	10/11/2005	N001	NR	N	0.0075			#	0.001	-

CLASSIC GROUND WATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/24/2006 4:18 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Manganese	mg/L	0446	WL	06/16/2005	N001	NR	N	0.0026	B	U	#	0.00052	-
	mg/L	0446	WL	10/10/2005	N001	NR	N	0.005	U		#	0.005	-
	mg/L	0454	WL	06/14/2005	N001			0.0074			#	0.00052	-
	mg/L	0454	WL	10/11/2005	N001			0.0051	B		#	0.005	-
	mg/L	0460	WL	06/15/2005	N001	NR	N	0.00067	B	U	#	0.00052	-
	mg/L	0460	WL	10/11/2005	N001	NR	N	0.0114	B		#	0.005	-
	mg/L	0828	WL	06/14/2005	N001		O	0.0065			#	0.00052	-
	mg/L	0828	WL	06/14/2005	N002		O	0.0059			#	0.00052	-
	mg/L	0828	WL	10/11/2005	N001		O	0.0049	B		#	0.001	-
	mg/L	0951	WL	06/14/2005	N001	NR	N	0.0035	B	U	#	0.00052	-
	mg/L	0951	WL	10/11/2005	N001	NR	N	0.0062			#	0.001	-
Molybdenum	mg/L	0405	WL	06/15/2005	N001	NR	N	0.0034		J	#	0.00021	-
	mg/L	0405	WL	10/11/2005	N001	NR	N	0.0049			#	0.0001	-
	mg/L	0422	WL	06/15/2005	N001	NR	N	0.0012		U	#	0.00021	-
	mg/L	0422	WL	10/11/2005	N001	NR	N	0.0018			#	0.0001	-
	mg/L	0430	WL	06/15/2005	N001	NR	N	0.0025		J	#	0.00021	-
	mg/L	0430	WL	10/11/2005	N001	NR	N	0.0024			#	0.0001	-
	mg/L	0436	WL	06/14/2005	N001	NR	N	0.004		J	#	0.00021	-
	mg/L	0436	WL	10/11/2005	N001	NR	N	0.004			#	0.0001	-
	mg/L	0446	WL	06/16/2005	N001	NR	N	0.0028		J	#	0.00021	-
	mg/L	0446	WL	10/10/2005	N001	NR	N	0.0025			#	0.0005	-
	mg/L	0454	WL	06/14/2005	N001			0.0025		J	#	0.00021	-
	mg/L	0454	WL	10/11/2005	N001			0.0016	B		#	0.0005	-
	mg/L	0460	WL	06/15/2005	N001	NR	N	0.0034		J	#	0.00021	-
	mg/L	0460	WL	10/11/2005	N001	NR	N	0.0024	B		#	0.0005	-
	mg/L	0828	WL	06/14/2005	N001		O	0.0039		J	#	0.00021	-

CLASSIC GROUND WATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/24/2006 4:18 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	SAMPLE: ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	QUALIFIERS: DATA	QUALIFIERS: QA	DETECTION LIMIT	UN-CERTAINTY
Molybdenum	mg/L	0828	WL	06/14/2005	N002		O	0.0039		J	#	0.00021	-
	mg/L	0828	WL	10/11/2005	N001		O	0.0041			#	0.0001	-
	mg/L	0951	WL	06/14/2005	N001	NR	N	0.0026		J	#	0.00021	-
	mg/L	0951	WL	10/11/2005	N001	NR	N	0.0024			#	0.0001	-
Oxidation Reduction Potent	mV	0405	WL	06/15/2005	N001	NR	N	112			#	-	-
	mV	0405	WL	10/11/2005	N001	NR	N	90.9			#	-	-
	mV	0422	WL	06/15/2005	N001	NR	N	74			#	-	-
	mV	0422	WL	10/11/2005	N001	NR	N	122.0			#	-	-
	mV	0430	WL	06/15/2005	N001	NR	N	90			#	-	-
	mV	0430	WL	10/11/2005	N001	NR	N	153			#	-	-
	mV	0436	WL	06/14/2005	N001	NR	N	119			#	-	-
	mV	0436	WL	10/11/2005	N001	NR	N	65.1			#	-	-
	mV	0446	WL	06/16/2005	N001	NR	N	138			#	-	-
	mV	0446	WL	10/10/2005	N001	NR	N	162.4			#	-	-
	mV	0454	WL	06/14/2005	N001			81.6			#	-	-
	mV	0454	WL	10/11/2005	N001			152			#	-	-
	mV	0460	WL	06/15/2005	N001	NR	N	87			#	-	-
	mV	0460	WL	10/11/2005	N001	NR	N	133.4			#	-	-
	mV	0828	WL	06/14/2005	N001		O	139			#	-	-
	mV	0828	WL	10/11/2005	N001		O	116.8			#	-	-
	mV	0951	WL	06/14/2005	N001	NR	N	107.9			#	-	-
	mV	0951	WL	10/11/2005	N001	NR	N	43			#	-	-
pH	s.u.	0405	WL	06/15/2005	N001	NR	N	7.90			#	-	-
	s.u.	0405	WL	10/11/2005	N001	NR	N	9.23			#	-	-
	s.u.	0422	WL	06/15/2005	N001	NR	N	7.66			#	-	-
	s.u.	0422	WL	10/11/2005	N001	NR	N	7.76			#	-	-

CLASSIC GROUND WATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/24/2006 4:18 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
pH	s.u.	0430	WL	06/15/2005	N001	NR	N	8.54			#	-	-
	s.u.	0430	WL	10/11/2005	N001	NR	N	8.79			#	-	-
	s.u.	0436	WL	06/14/2005	N001	NR	N	8.45			#	-	-
	s.u.	0436	WL	10/11/2005	N001	NR	N	8.81			#	-	-
	s.u.	0446	WL	06/16/2005	N001	NR	N	8.34			#	-	-
	s.u.	0446	WL	10/10/2005	N001	NR	N	8.42			#	-	-
	s.u.	0454	WL	06/14/2005	N001			6.98			#	-	-
	s.u.	0454	WL	10/11/2005	N001			8.59			#	-	-
	s.u.	0460	WL	06/15/2005	N001	NR	N	8.76			#	-	-
	s.u.	0460	WL	10/11/2005	N001	NR	N	8.84			#	-	-
	s.u.	0828	WL	06/14/2005	N001		O	8.44			#	-	-
	s.u.	0828	WL	10/11/2005	N001		O	8.83			#	-	-
	s.u.	0951	WL	06/14/2005	N001	NR	N	8.05			#	-	-
	s.u.	0951	WL	10/11/2005	N001	NR	N	8.83			#	-	-
Specific Conductance	umhos/cm	0405	WL	06/15/2005	N001	NR	N	792			#	-	-
	umhos/cm	0405	WL	10/11/2005	N001	NR	N	937			#	-	-
	umhos/cm	0422	WL	06/15/2005	N001	NR	N	579			#	-	-
	umhos/cm	0422	WL	10/11/2005	N001	NR	N	397			#	-	-
	umhos/cm	0430	WL	06/15/2005	N001	NR	N	689			#	-	-
	umhos/cm	0430	WL	10/11/2005	N001	NR	N	735			#	-	-
	umhos/cm	0436	WL	06/14/2005	N001	NR	N	787			#	-	-
	umhos/cm	0436	WL	10/11/2005	N001	NR	N	825			#	-	-
	umhos/cm	0446	WL	06/16/2005	N001	NR	N	630			#	-	-
	umhos/cm	0446	WL	10/10/2005	N001	NR	N	643			#	-	-
	umhos/cm	0454	WL	06/14/2005	N001			1374			#	-	-
	umhos/cm	0454	WL	10/11/2005	N001			1224			#	-	-

CLASSIC GROUND WATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/24/2006 4:18 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Specific Conductance	umhos/cm	0460	WL	06/15/2005	N001	NR	N	612			#	-	-
	umhos/cm	0460	WL	10/11/2005	N001	NR	N	679			#	-	-
	umhos/cm	0828	WL	06/14/2005	N001		O	790			#	-	-
	umhos/cm	0828	WL	10/11/2005	N001		O	817			#	-	-
	umhos/cm	0951	WL	06/14/2005	N001	NR	N	777			#	-	-
	umhos/cm	0951	WL	10/11/2005	N001	NR	N	847			#	-	-
Sulfate	mg/L	0405	WL	06/15/2005	N001	NR	N	280			#	5	-
	mg/L	0405	WL	10/11/2005	N001	NR	N	339			#	1.43	-
	mg/L	0422	WL	06/15/2005	N001	NR	N	120			#	2.5	-
	mg/L	0422	WL	10/11/2005	N001	NR	N	61.4			#	0.114	-
	mg/L	0430	WL	06/15/2005	N001	NR	N	180			#	2.5	-
	mg/L	0430	WL	10/11/2005	N001	NR	N	184			#	0.57	-
	mg/L	0436	WL	06/14/2005	N001	NR	N	220			#	5	-
	mg/L	0436	WL	10/11/2005	N001	NR	N	216			#	1.14	-
	mg/L	0446	WL	06/16/2005	N001	NR	N	140			#	2.5	-
	mg/L	0446	WL	10/10/2005	N001	NR	N	136			#	0.57	-
	mg/L	0454	WL	06/14/2005	N001			460			#	10	-
	mg/L	0454	WL	10/11/2005	N001			441			#	1.43	-
	mg/L	0460	WL	06/15/2005	N001	NR	N	160			#	2.5	-
	mg/L	0460	WL	10/11/2005	N001	NR	N	156			#	0.57	-
	mg/L	0828	WL	06/14/2005	N001		O	230			#	5	-
	mg/L	0828	WL	06/14/2005	N002		O	230			#	5	-
	mg/L	0828	WL	10/11/2005	N001		O	215			#	1.14	-
	mg/L	0951	WL	06/14/2005	N001	NR	N	260			#	5	-
	mg/L	0951	WL	10/11/2005	N001	NR	N	259			#	1.14	-
Temperature	C	0405	WL	06/15/2005	N001	NR	N	11.93			#	-	-

CLASSIC GROUND WATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/24/2006 4:18 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Temperature	C	0405	WL	10/11/2005	N001	NR	N	11.22			#	-	-
	C	0422	WL	06/15/2005	N001	NR	N	12.16			#	-	-
	C	0422	WL	10/11/2005	N001	NR	N	24.58			#	-	-
	C	0430	WL	06/15/2005	N001	NR	N	22.20			#	-	-
	C	0430	WL	10/11/2005	N001	NR	N	16.24			#	-	-
	C	0436	WL	06/14/2005	N001	NR	N	17.45			#	-	-
	C	0436	WL	10/11/2005	N001	NR	N	15.70			#	-	-
	C	0446	WL	06/16/2005	N001	NR	N	11.86			#	-	-
	C	0446	WL	10/10/2005	N001	NR	N	13.28			#	-	-
	C	0454	WL	06/14/2005	N001			15.21			#	-	-
	C	0454	WL	10/11/2005	N001			12.64			#	-	-
	C	0460	WL	06/15/2005	N001	NR	N	20.06			#	-	-
	C	0460	WL	10/11/2005	N001	NR	N	19.42			#	-	-
	C	0828	WL	06/14/2005	N001		O	14.04			#	-	-
	C	0828	WL	10/11/2005	N001		O	15.69			#	-	-
	C	0951	WL	06/14/2005	N001	NR	N	15.39			#	-	-
	C	0951	WL	10/11/2005	N001	NR	N	12.56			#	-	-
Turbidity	NTU	0405	WL	06/15/2005	N001	NR	N	3.12			#	-	-
	NTU	0405	WL	10/11/2005	N001	NR	N	3.12			#	-	-
	NTU	0422	WL	06/15/2005	N001	NR	N	0.59			#	-	-
	NTU	0422	WL	10/11/2005	N001	NR	N	1.13			#	-	-
	NTU	0430	WL	06/15/2005	N001	NR	N	1.69			#	-	-
	NTU	0430	WL	10/11/2005	N001	NR	N	2.19			#	-	-
	NTU	0436	WL	10/11/2005	N001	NR	N	3.39			#	-	-
	NTU	0446	WL	06/16/2005	N001	NR	N	1.51			#	-	-
	NTU	0446	WL	10/10/2005	N001	NR	N	1.80			#	-	-

CLASSIC GROUND WATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/24/2006 4:18 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	SAMPLE: ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	QUALIFIERS: DATA	QUALIFIERS: QA	DETECTION LIMIT	UN-CERTAINTY
Turbidity	NTU	0454	WL	06/14/2005	N001			0.44			#	-	-
	NTU	0454	WL	10/11/2005	N001			1.05			#	-	-
	NTU	0460	WL	06/15/2005	N001	NR	N	8.42			#	-	-
	NTU	0460	WL	10/11/2005	N001	NR	N	3.71			#	-	-
	NTU	0828	WL	06/14/2005	N001		O	0.75			#	-	-
	NTU	0828	WL	10/11/2005	N001		O	0.97			#	-	-
	NTU	0951	WL	06/14/2005	N001	NR	N	2.05			#	-	-
	NTU	0951	WL	10/11/2005	N001	NR	N	4.10			#	-	-
Uranium	mg/L	0405	WL	06/15/2005	N001	NR	N	0.00007	B	U	#	2.2E-06	-
	mg/L	0405	WL	10/11/2005	N001	NR	N	0.00005	U		#	0.00005	-
	mg/L	0422	WL	06/15/2005	N001	NR	N	0.0038			#	2.2E-06	-
	mg/L	0422	WL	10/11/2005	N001	NR	N	0.0021			#	0.00005	-
	mg/L	0430	WL	06/15/2005	N001	NR	N	0.00007	B	U	#	2.2E-06	-
	mg/L	0430	WL	10/11/2005	N001	NR	N	0.00005	U		#	0.00005	-
	mg/L	0436	WL	06/14/2005	N001	NR	N	0.00009	B	U	#	2.2E-06	-
	mg/L	0436	WL	10/11/2005	N001	NR	N	0.00015	B		#	0.00005	-
	mg/L	0446	WL	06/16/2005	N001	NR	N	0.00008	B	U	#	2.2E-06	-
	mg/L	0446	WL	10/10/2005	N001	NR	N	0.00025	U		#	0.00025	-
	mg/L	0454	WL	06/14/2005	N001			0.00007	B	U	#	2.2E-06	-
	mg/L	0454	WL	10/11/2005	N001			0.00025	U		#	0.00025	-
	mg/L	0460	WL	06/15/2005	N001	NR	N	0.00008	B	U	#	2.2E-06	-
	mg/L	0460	WL	10/11/2005	N001	NR	N	0.00025	U		#	0.00025	-
	mg/L	0828	WL	06/14/2005	N001		O	0.00009	B	U	#	2.2E-06	-
	mg/L	0828	WL	06/14/2005	N002		O	0.00009	B	U	#	2.2E-06	-
	mg/L	0828	WL	10/11/2005	N001		O	0.00014	B		#	0.00005	-
	mg/L	0951	WL	06/14/2005	N001	NR	N	0.00007	B	U	#	2.2E-06	-

CLASSIC GROUND WATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/24/2006 4:18 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Uranium	mg/L	0951	WL	10/11/2005	N001	NR	N	0.00005	U		#	0.00005	-

RECORDS: SELECTED FROM USEE200 WHERE site_code='RVT01' AND location_code in('0405','0422','0430','0436','0446','0454','0460','0828','0951') AND quality_assurance = TRUE AND (data_validation_qualifiers IS NULL OR data_validation_qualifiers NOT LIKE '%R%' AND data_validation_qualifiers NOT LIKE '%X%') AND DATE_SAMPLED between #1/1/2005# and #12/31/2005#

SAMPLE ID CODES: 000X = Filtered sample (0.45 µm). N00X = Unfiltered sample. X = replicate number.

LOCATION TYPES: WL WELL

ZONES OF COMPLETION:

NR NO RECOVERY OF DATA FOR CLASSIFYING

FLOW CODES: N UNKNOWN O ON-SITE

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- > Result above upper detection limit.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic & Radiochemistry: Analyte also found in method blank.
- C Pesticide result confirmed by GC-MS.
- D Analyte determined in diluted sample.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- J Estimated
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compund (TIC).
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.

DATA QUALIFIERS:

- F Low flow sampling method used.
- G Possible grout contamination, pH > 9.
- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- Q Qualitative result due to sampling technique
- R Unusable result.
- U Parameter analyzed for but was not detected.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

Appendix C

Surface Water Quality Data

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SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/20/2006 8:51 am

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Alkalinity, Total (As CaCO3	mg/L	0747	06/16/2005	0001	231			#	-	-
	mg/L	0747	10/13/2005	0001	311			#	-	-
	mg/L	0749	06/16/2005	N001	191			#	-	-
	mg/L	0749	10/12/2005	0001	437			#	-	-
	mg/L	0794	06/14/2005	0001	87			#	-	-
	mg/L	0794	10/11/2005	N001	176			#	-	-
	mg/L	0796	06/14/2005	0001	73			#	-	-
	mg/L	0796	10/11/2005	N001	169			#	-	-
	mg/L	0810	06/15/2005	N001	294			#	-	-
	mg/L	0810	10/11/2005	N001	298			#	-	-
	mg/L	0811	06/16/2005	0001	83			#	-	-
	mg/L	0811	10/13/2005	N001	76			#	-	-
	mg/L	0812	06/15/2005	0001	79			#	-	-
	mg/L	0812	10/13/2005	N001	181			#	-	-
	mg/L	0822	06/14/2005	0001	220			#	-	-
	mg/L	0822	10/11/2005	0001	336			#	-	-
	mg/L	0823	06/15/2005	0001	97			#	-	-
	mg/L	0823	10/11/2005	N001	107			#	-	-
Manganese	mg/L	0747	06/16/2005	0001	0.490			#	0.00052	-
	mg/L	0747	10/13/2005	0001	0.455			#	0.001	-
	mg/L	0747	10/13/2005	N002	0.574			#	0.001	-
	mg/L	0749	06/16/2005	N001	0.010			#	0.00052	-
	mg/L	0749	10/12/2005	0001	0.0256			#	0.005	-
	mg/L	0794	06/14/2005	0001	0.0066			#	0.00052	-
	mg/L	0794	10/11/2005	N001	0.0334			#	0.001	-
	mg/L	0796	06/14/2005	0001	0.0073			#	0.00052	-
	mg/L	0796	10/11/2005	N001	0.0327			#	0.005	-
	mg/L	0810	06/15/2005	N001	0.030			#	0.00052	-
	mg/L	0810	10/11/2005	N001	0.0732			#	0.005	-
	mg/L	0811	06/16/2005	0001	0.0043	B		#	0.00052	-
	mg/L	0811	10/13/2005	N001	0.0531			#	0.001	-
	mg/L	0812	06/15/2005	0001	0.012			#	0.00052	-
	mg/L	0812	10/13/2005	N001	0.0403			#	0.001	-
	mg/L	0822	06/14/2005	N001	0.0071			#	0.00052	-
	mg/L	0822	10/11/2005	0001	0.0459			#	0.001	-
	mg/L	0823	06/15/2005	0001	0.0097			#	0.00052	-
	mg/L	0823	10/11/2005	N001	0.0342			#	0.001	-
Molybdenum	mg/L	0747	06/16/2005	0001	0.0083			#	0.00021	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/20/2006 8:51 am

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Molybdenum	mg/L	0747	10/13/2005	0001	0.0233			#	0.0001	-
	mg/L	0747	10/13/2005	N002	0.0234			#	0.0001	-
	mg/L	0749	06/16/2005	N001	0.0084			#	0.00021	-
	mg/L	0749	10/12/2005	0001	0.0121			#	0.0005	-
	mg/L	0794	06/14/2005	0001	0.0007 B		U	#	0.00021	-
	mg/L	0794	10/11/2005	N001	0.0015			#	0.0001	-
	mg/L	0796	06/14/2005	0001	0.0021		J	#	0.00021	-
	mg/L	0796	10/11/2005	N001	0.0014 B			#	0.0005	-
	mg/L	0810	06/15/2005	N001	0.0014		U	#	0.00021	-
	mg/L	0810	10/11/2005	N001	0.0021 B			#	0.0005	-
	mg/L	0811	06/16/2005	0001	0.0007 B		U	#	0.00021	-
	mg/L	0811	10/13/2005	N001	0.0017			#	0.0001	-
	mg/L	0812	06/15/2005	0001	0.001 B		U	#	0.00021	-
	mg/L	0812	10/13/2005	N001	0.0015			#	0.0001	-
	mg/L	0822	06/14/2005	N001	0.0048		J	#	0.00021	-
	mg/L	0822	10/11/2005	0001	0.0059			#	0.0001	-
	mg/L	0823	06/15/2005	0001	0.0049			#	0.00021	-
	mg/L	0823	10/11/2005	N001	0.0047			#	0.0001	-
Oxidation Reduction Potent	mV	0747	06/16/2005	N001	110			#	-	-
	mV	0747	10/13/2005	N001	-14.8			#	-	-
	mV	0749	06/16/2005	N001	155			#	-	-
	mV	0749	10/12/2005	N001	131.2			#	-	-
	mV	0794	06/14/2005	N001	168			#	-	-
	mV	0794	10/11/2005	N001	186.3			#	-	-
	mV	0796	06/14/2005	N001	88			#	-	-
	mV	0796	10/11/2005	N001	186			#	-	-
	mV	0810	06/15/2005	N001	79			#	-	-
	mV	0810	10/11/2005	N001	191			#	-	-
	mV	0811	06/16/2005	N001	92			#	-	-
	mV	0811	10/13/2005	N001	-47.3			#	-	-
	mV	0812	06/15/2005	N001	77			#	-	-
	mV	0812	10/13/2005	N001	-74			#	-	-
	mV	0822	06/14/2005	N001	120			#	-	-
	mV	0822	10/11/2005	N001	31.4			#	-	-
	mV	0823	06/15/2005	N001	87			#	-	-
	mV	0823	10/11/2005	N001	199.0			#	-	-
pH	s.u.	0747	06/16/2005	N001	7.70			#	-	-
	s.u.	0747	10/13/2005	N001	7.62			#	-	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/20/2006 8:51 am

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
pH	s.u.	0749	06/16/2005	N001	7.72			#	-	-
	s.u.	0749	10/12/2005	N001	8.21			#	-	-
	s.u.	0794	06/14/2005	N001	7.80			#	-	-
	s.u.	0794	10/11/2005	N001	8.10			#	-	-
	s.u.	0796	06/14/2005	N001	7.31			#	-	-
	s.u.	0796	10/11/2005	N001	8.40			#	-	-
	s.u.	0810	06/15/2005	N001	9.08			#	-	-
	s.u.	0810	10/11/2005	N001	8.80			#	-	-
	s.u.	0811	06/16/2005	N001	7.25			#	-	-
	s.u.	0811	10/13/2005	N001	8.59			#	-	-
	s.u.	0812	06/15/2005	N001	8.12			#	-	-
	s.u.	0812	10/13/2005	N001	8.61			#	-	-
	s.u.	0822	06/14/2005	N001	8.90			#	-	-
	s.u.	0822	10/11/2005	N001	8.21			#	-	-
	s.u.	0823	06/15/2005	N001	8.19			#	-	-
	s.u.	0823	10/11/2005	N001	8.32			#	-	-
Radium-226	pCi/L	0822	06/14/2005	N001	0.208	U		#	0.413	± 0.26
	pCi/L	0822	10/11/2005	0001	1.22		J	#	0.669	± 0.56
Radium-228	pCi/L	0822	06/14/2005	N001	0.31	U		#	1.12	± 0.55
	pCi/L	0822	10/11/2005	0001	1.52	U		#	1.52	± 0.60
Specific Conductance	umhos/cm	0747	06/16/2005	N001	827			#	-	-
	umhos/cm	0747	10/13/2005	N001	1320			#	-	-
	umhos/cm	0749	06/16/2005	N001	4193			#	-	-
	umhos/cm	0749	10/12/2005	N001	4938			#	-	-
	umhos/cm	0794	06/14/2005	N001	410			#	-	-
	umhos/cm	0794	10/11/2005	N001	853			#	-	-
	umhos/cm	0796	06/14/2005	N001	441			#	-	-
	umhos/cm	0796	10/11/2005	N001	1074			#	-	-
	umhos/cm	0810	06/15/2005	N001	1005			#	-	-
	umhos/cm	0810	10/11/2005	N001	1452			#	-	-
	umhos/cm	0811	06/16/2005	N001	433			#	-	-
	umhos/cm	0811	10/13/2005	N001	907			#	-	-
	umhos/cm	0812	06/15/2005	N001	331			#	-	-
	umhos/cm	0812	10/13/2005	N001	922			#	-	-
	umhos/cm	0822	06/14/2005	N001	2326			#	-	-
	umhos/cm	0822	10/11/2005	N001	2344			#	-	-
	umhos/cm	0823	06/15/2005	N001	1094			#	-	-
	umhos/cm	0823	10/11/2005	N001	1383			#	-	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/20/2006 8:51 am

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB	DATA QA	DETECTION LIMIT	UN-CERTAINTY
Sulfate	mg/L	0747	06/16/2005	0001	230		#	5	-
	mg/L	0747	10/13/2005	0001	422		#	5.7	-
	mg/L	0747	10/13/2005	N002	424		#	5.7	-
	mg/L	0749	06/16/2005	N001	2400		#	25	-
	mg/L	0749	10/12/2005	0001	2250		#	5.7	-
	mg/L	0794	06/14/2005	0001	86		#	1	-
	mg/L	0794	10/11/2005	N001	274		#	1.14	-
	mg/L	0796	06/14/2005	0001	80		#	1	-
	mg/L	0796	10/11/2005	N001	268		#	1.14	-
	mg/L	0810	06/15/2005	N001	330		#	5	-
	mg/L	0810	10/11/2005	N001	376		#	1.43	-
	mg/L	0811	06/16/2005	0001	72		#	1	-
	mg/L	0811	10/13/2005	N001	281		#	2.85	-
	mg/L	0812	06/15/2005	0001	87		#	1	-
	mg/L	0812	10/13/2005	N001	281		#	2.85	-
	mg/L	0822	06/14/2005	N001	1100		#	25	-
	mg/L	0822	10/11/2005	0001	901		#	2.85	-
	mg/L	0823	06/15/2005	0001	470		#	5	-
	mg/L	0823	10/11/2005	N001	509		#	2.28	-
Temperature	C	0747	06/16/2005	N001	21.45		#	-	-
	C	0747	10/13/2005	N001	15.96		#	-	-
	C	0749	06/16/2005	N001	26.73		#	-	-
	C	0749	10/12/2005	N001	17.40		#	-	-
	C	0794	06/14/2005	N001	20.72		#	-	-
	C	0794	10/11/2005	N001	9.46		#	-	-
	C	0796	06/14/2005	N001	13.26		#	-	-
	C	0796	10/11/2005	N001	6.13		#	-	-
	C	0810	06/15/2005	N001	18.36		#	-	-
	C	0810	10/11/2005	N001	7.67		#	-	-
	C	0811	06/16/2005	N001	15.10		#	-	-
	C	0811	10/13/2005	N001	13.27		#	-	-
	C	0812	06/15/2005	N001	15.03		#	-	-
	C	0812	10/13/2005	N001	13.03		#	-	-
	C	0822	06/14/2005	N001	24.00		#	-	-
	C	0822	10/11/2005	N001	12.07		#	-	-
	C	0823	06/15/2005	N001	19.44		#	-	-
	C	0823	10/11/2005	N001	9.37		#	-	-
Turbidity	NTU	0747	06/16/2005	N001	64.9		#	-	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/20/2006 8:51 am

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Turbidity	NTU	0747	10/13/2005	N001	46.6			#	-	-
	NTU	0749	06/16/2005	N001	5.09			#	-	-
	NTU	0749	10/12/2005	N001	20.0			#	-	-
	NTU	0794	06/14/2005	N001	18.0			#	-	-
	NTU	0794	10/11/2005	N001	8.14			#	-	-
	NTU	0796	06/14/2005	N001	24.3			#	-	-
	NTU	0796	10/11/2005	N001	9.19			#	-	-
	NTU	0810	06/15/2005	N001	3.67			#	-	-
	NTU	0810	10/11/2005	N001	9.49			#	-	-
	NTU	0811	06/16/2005	N001	33.8			#	-	-
	NTU	0811	10/13/2005	N001	9.40			#	-	-
	NTU	0812	06/15/2005	N001	23.1			#	-	-
	NTU	0812	10/13/2005	N001	8.21			#	-	-
	NTU	0822	06/14/2005	N001	4.01			#	-	-
	NTU	0822	10/11/2005	N001	11.8			#	-	-
	NTU	0823	06/15/2005	N001	32.7			#	-	-
	NTU	0823	10/11/2005	N001	8.75			#	-	-
Uranium	mg/L	0747	06/16/2005	0001	0.100			#	2.2E-06	-
	mg/L	0747	10/13/2005	0001	0.251			#	0.00005	-
	mg/L	0747	10/13/2005	N002	0.250			#	0.00005	-
	mg/L	0749	06/16/2005	N001	0.0001		U	#	2.2E-06	-
	mg/L	0749	10/12/2005	0001	0.0002 U			#	0.00025	-
	mg/L	0794	06/14/2005	0001	0.0019			#	2.2E-06	-
	mg/L	0794	10/11/2005	N001	0.0079			#	0.00005	-
	mg/L	0796	06/14/2005	0001	0.0015			#	2.2E-06	-
	mg/L	0796	10/11/2005	N001	0.0054			#	0.00025	-
	mg/L	0810	06/15/2005	N001	0.0063			#	2.2E-06	-
	mg/L	0810	10/11/2005	N001	0.007			#	0.00025	-
	mg/L	0811	06/16/2005	0001	0.0011			#	2.2E-06	-
	mg/L	0811	10/13/2005	N001	0.007			#	0.00005	-
	mg/L	0812	06/15/2005	0001	0.0017			#	2.2E-06	-
	mg/L	0812	10/13/2005	N001	0.0072			#	0.00005	-
	mg/L	0822	06/14/2005	N001	0.0031			#	2.2E-06	-
	mg/L	0822	10/11/2005	0001	0.0094			#	0.00005	-
	mg/L	0823	06/15/2005	0001	0.0096			#	2.2E-06	-
	mg/L	0823	10/11/2005	N001	0.0078			#	0.00005	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/20/2006 8:51 am

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY

RECORDS: SELECTED FROM USEE800 WHERE site_code='RVT01' AND quality_assurance = TRUE AND (data_validation_qualifiers IS NULL OR data_validation_qualifiers NOT LIKE '%R%' AND data_validation_qualifiers NOT LIKE '%X%') AND DATE_SAMPLED between #1/1/2005# and #12/31/2005#

SAMPLE ID CODES: 000X = Filtered sample (0.45 µm). N00X = Unfiltered sample. X = replicate number.

LAB QUALIFIERS:

*	Replicate analysis not within control limits.
+	Correlation coefficient for MSA < 0.995.
>	Result above upper detection limit.
A	TIC is a suspected aldol-condensation product.
B	Inorganic: Result is between the IDL and CRDL. Organic & Radiochemistry: Analyte also found in method blank.
C	Pesticide result confirmed by GC-MS.
D	Analyte determined in diluted sample.
E	Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
H	Holding time expired, value suspect.
I	Increased detection limit due to required dilution.
J	Estimated
M	GFAA duplicate injection precision not met.
N	Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compund (TIC).
P	> 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
S	Result determined by method of standard addition (MSA).
U	Analytical result below detection limit.
W	Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
X	Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
Y	Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
Z	Laboratory defined (USEPA CLP organic) qualifier, see case narrative.

DATA QUALIFIERS:

F	Low flow sampling method used.
J	Estimated value.
Q	Qualitative result due to sampling technique
U	Parameter analyzed for but was not detected.
G	Possible grout contamination, pH > 9.
L	Less than 3 bore volumes purged prior to sampling.
R	Unusable result.
X	Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

Appendix D

Water Level Data

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STATIC WATER LEVELS (USEE700) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/24/2006 4:20 pm

LOCATION CODE	FLOW CODE	TOP OF CASING ELEVATION (FT)	MEASUREMENT		DEPTH FROM TOP OF CASING (FT)	WATER ELEVATION (FT)	WATER LEVEL FLAG
			DATE	TIME			
0101	O	4946.58	06/16/2005	17:19	10.95	4935.63	
		4946.58	10/12/2005	09:17	11.21	4935.37	
0105	O	4946.79	10/12/2005	09:22	11.41	4935.38	
0110	O	4946.44	06/16/2005	17:23	11.73	4934.71	
		4946.44	10/12/2005	09:15	12.80	4933.64	
0111	O	4946.87	06/16/2005	17:20	9.73	4937.14	
		4946.87	10/12/2005	09:20	10.75	4936.12	
0700	U	4951.38	06/16/2005	17:36	6.90	4944.48	
		4951.38	10/12/2005	10:10	6.78	4944.60	
0702	D	4931.00	10/13/2005	09:36	6.70	4924.30	
0705	D	4930.80	06/16/2005	09:08	5.74	4925.06	
		4930.80	10/13/2005	10:10	6.79	4924.01	
0707	D	4931.00	06/16/2005	09:41	5.00	4926.00	
		4931.00	10/13/2005	09:54	5.85	4925.15	
		4931.00	10/13/2005	10:50	5.83	4925.17	
0709	D	4930.70	06/16/2005	08:58	2.92	4927.78	
		4930.70	10/13/2005	09:34	2.70	4928.00	
0710	U	4947.90	06/14/2005	16:51	6.13	4941.77	
		4947.90	10/12/2005	08:17	6.72	4941.18	
0711	U	4944.50	06/14/2005	17:17	5.28	4939.22	
		4944.50	10/12/2005	08:53	5.70	4938.80	
0712	U	4944.50	10/12/2005	08:40	5.72	4938.78	
0713	U	4942.70	06/14/2005	17:34	6.46	4936.24	
		4942.70	10/12/2005	08:36	6.37	4936.33	
0714	U	4942.10	06/14/2005	18:08	5.53	4936.57	
		4942.10	10/12/2005	08:35	6.74	4935.36	
0715	U	4939.40	06/14/2005	18:02	4.80	4934.60	
		4939.40	10/12/2005	08:30	5.96	4933.44	
0716	O	4939.12	06/17/2005	08:40	8.17	4930.95	
		4939.12	10/12/2005	10:28	9.28	4929.84	
0717	O	4938.80	06/17/2005	09:10	7.96	4930.84	
		4938.80	10/12/2005	10:53	8.89	4929.91	
0718	D	4937.60	06/15/2005	17:21	7.75	4929.85	

STATIC WATER LEVELS (USEE700) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/24/2006 4:20 pm

LOCATION CODE	FLOW CODE	TOP OF CASING ELEVATION (FT)	MEASUREMENT		DEPTH FROM TOP OF CASING (FT)	WATER ELEVATION (FT)	WATER LEVEL FLAG
			DATE	TIME			
0718	D	4937.60	10/13/2005	14:18	8.85	4928.75	
0719	D	4937.55	06/15/2005	16:50	6.82	4930.73	
		4937.55	10/13/2005	14:00	8.39	4929.16	
0720	C	4940.46	06/14/2005	14:03	5.23	4935.23	
		4940.46	10/11/2005	15:20	5.05	4935.41	
0721	C	4940.47	06/14/2005	14:28	7.60	4932.87	
		4940.47	10/11/2005	15:42	8.41	4932.06	
0722	D	4936.22	06/16/2005	14:42	6.67	4929.55	
0723	D	4936.01	06/16/2005	15:20	6.75	4929.26	
		4936.01	10/13/2005	16:53	8.10	4927.91	
0724	U	4941.36	06/16/2005	18:06	7.25	4934.11	
		4941.36	10/12/2005	09:54	8.22	4933.14	
0725	U	4941.66	06/16/2005	18:08	7.41	4934.25	
		4941.66	10/12/2005	10:00	8.51	4933.15	
0726	U	4942.00	06/16/2005	18:10	6.09	4935.91	
		4942.00	10/12/2005	09:52	7.45	4934.55	
0727	U	4951.69	06/16/2005	17:28	8.76	4942.93	
		4951.69	10/12/2005	09:08	11.14	4940.55	
0728	U	4946.01	06/16/2005	16:25	7.29	4938.72	
		4946.01	10/12/2005	09:00	8.62	4937.39	
0729	D	4932.75	06/15/2005	14:07	7.10	4925.65	
		4932.75	10/13/2005	12:57	6.24	4926.51	
0730	D	4933.08	06/15/2005	14:26	7.67	4925.41	
		4933.08	10/13/2005	13:22	6.93	4926.15	
0731	U	4945.48	06/16/2005	16:49	7.66	4937.82	
		4945.48	06/17/2005	10:10	7.65	4937.83	
		4945.48	10/12/2005	09:52	8.19	4937.29	
0732	U	4945.07	06/16/2005	16:47	8.59	4936.48	
		4945.07	10/12/2005	09:27	9.06	4936.01	
0733	U	4946.76	06/16/2005	16:12	3.63	4943.13	
		4946.76	10/11/2005	12:53	5.63	4941.13	
0734	U	4946.08	06/16/2005	16:14	6.11	4939.97	
		4946.08	10/11/2005	12:55	6.71	4939.37	

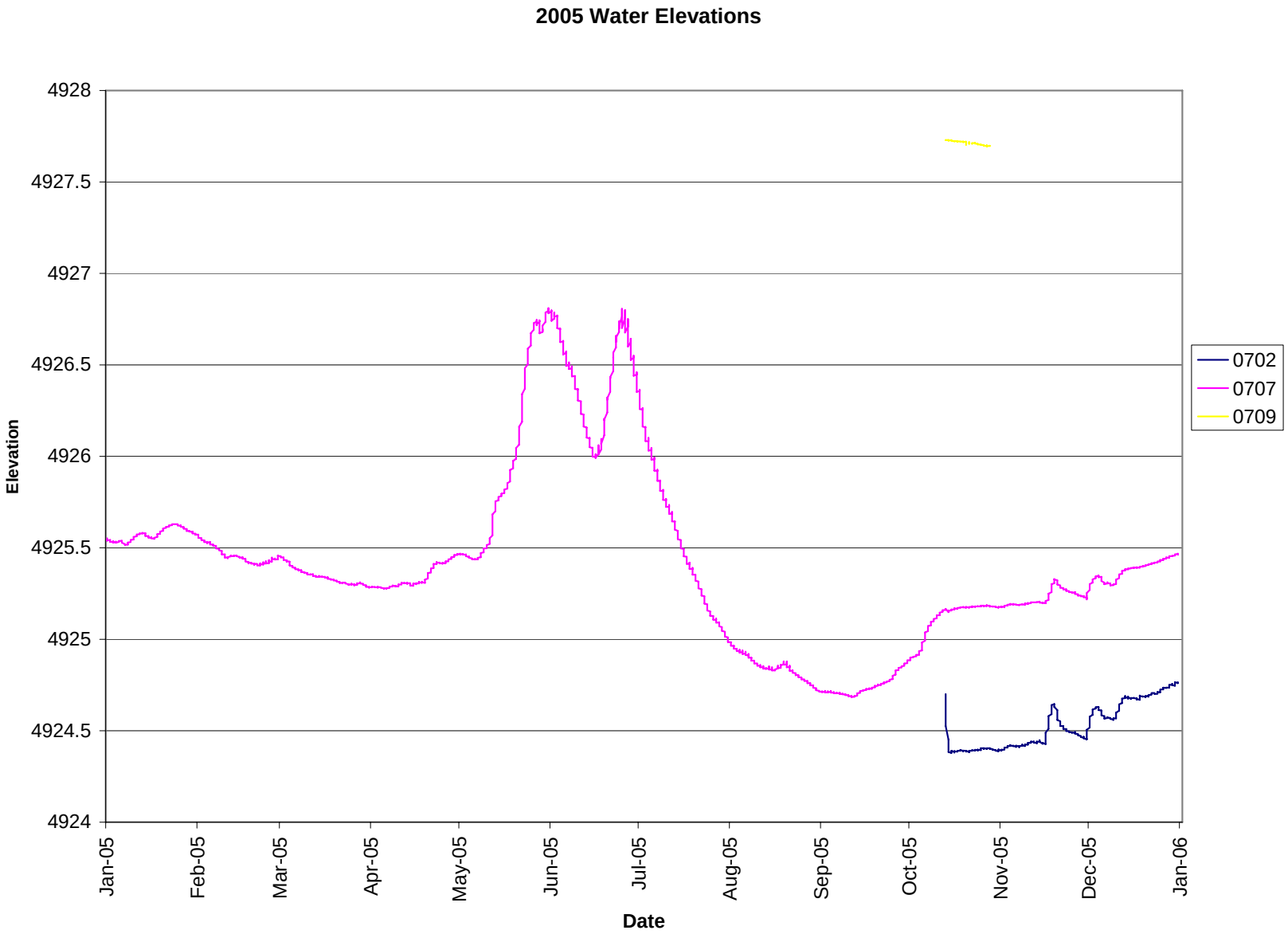
STATIC WATER LEVELS (USEE700) FOR SITE RVT01, Riverton Processing Site
REPORT DATE: 1/24/2006 4:20 pm

LOCATION CODE	FLOW CODE	TOP OF CASING ELEVATION (FT)	MEASUREMENT		DEPTH FROM TOP OF CASING (FT)	WATER ELEVATION (FT)	WATER LEVEL FLAG
			DATE	TIME			
0735	D	4934.16	06/14/2005	09:20	8.95	4925.21	
		4934.16	10/12/2005	14:15	10.17	4923.99	
0736	U	4946.00	06/16/2005	18:20	7.51	4938.49	
		4946.00	10/11/2005	10:36	7.83	4938.17	
0787	D	4932.41	10/13/2005	09:15	9.32	4923.09	
0788	C	4935.09	06/16/2005	13:58	7.97	4927.12	
		4935.09	10/13/2005	09:28	9.45	4925.64	
0789	D	4933.66	06/16/2005	08:39	7.98	4925.68	
0809		4932.09	06/14/2005	10:02	6.67	4925.42	
		4932.09	10/12/2005	13:30	7.80	4924.29	

RECORDS: SELECTED FROM USEE700 WHERE site_code='RVT01' AND LOG_DATE between #1/1/2005# and #12/31/2005#

FLOW CODES: C CROSS GRADIENT D DOWN GRADIENT O ON-SITE
U UPGRADIENT

WATER LEVEL FLAGS: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4927
4926.5
4926
4925.5
4925
4924.5
4924
Elevation
Jan-05
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Mar-05
Apr-05
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Jun-05
Jul-05
Aug-05
Sep-05
Oct-05
Nov-05
Dec-05
Jan-06
Date
0702
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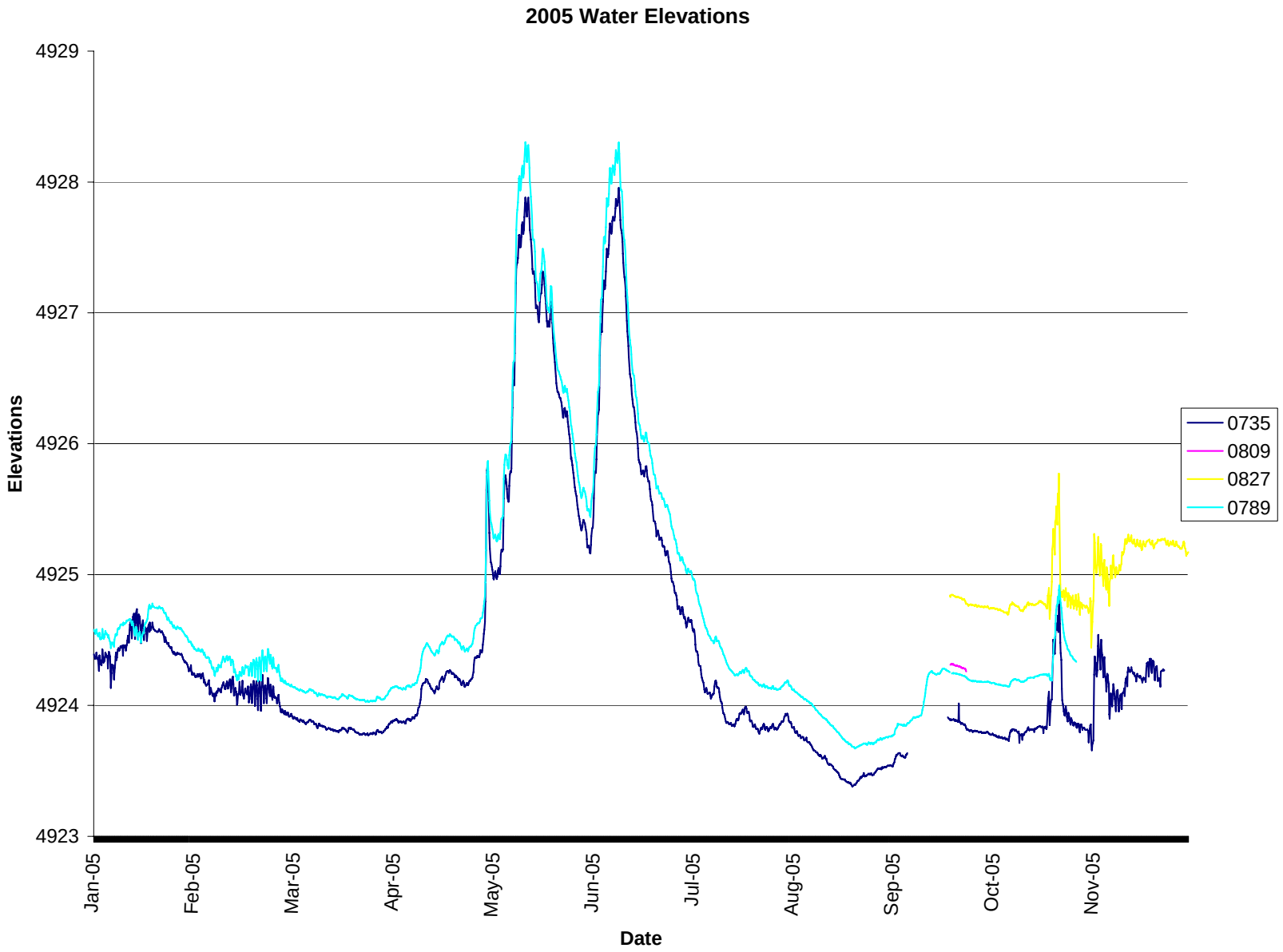
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Elevations
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4928
4927
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Date
0735
0809
0827
0789