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January 26, 2006

Mr. Brian Rakvica, P.E.  
Nevada Division of Environmental Protection  
1771 East Flamingo Road, Suite 121-A  
Las Vegas, Nevada 89119

**Subject: Tronox LLC Semi-Annual Performance Report –  
Chromium Mitigation Program – July through December 2005**

Dear Mr. Rakvica:

Please find attached the *Semi-Annual Performance Report – Chromium Mitigation Program – July through December 2005* describing performance criteria associated with the chromium remedial efforts at the Tronox LLC Henderson facility.

Please contact me at (702) 651-2234 if you have any comments or questions concerning this correspondence.

Sincerely,

Susan M. Crowley  
Staff Environmental Specialist

#### Overnight Mail

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Page 2

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#### Attachment

2005 - 2nd SemiAnnual Cv Ltr.doc

SEMI-ANNUAL PERFORMANCE REPORT  
CHROMIUM MITIGATION PROGRAM  
TRONOX LLC  
HENDERSON, NEVADA

JULY - DECEMBER 2005

Submitted in Accordance with:

Chromium Mitigation Program  
Consent Order  
September 9, 1986

Prepared by:

Tronox LLC

January 27, 2006

**Semiannual Performance Report  
Chromium Mitigation System  
July through December 2005  
Tronox LLC  
Henderson, Nevada**

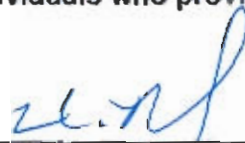
**Responsible CEM for this project**



Susan M. Crowley, CEM 1428 exp 3-8-07  
Date: 1/26/06  
Staff Environmental Specialist  
Tronox LLC

*I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and, to the best of my knowledge, comply with all applicable federal, state and local statutes, regulations and ordinances.*

**Individuals who provided input to this document**



Thomas W. Reed  
Date: 1/26/06  
Senior Staff Hydrologist Tronox LLC

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SEMI-ANNUAL PERFORMANCE REPORT  
CHROMIUM MITIGATION PROGRAM  
TRONOX LLC  
HENDERSON, NEVADA

## **INTRODUCTION**

In 2005, the chemical division of Kerr-McGee, including the Henderson facility, was renamed Tronox LLC (Tronox). In accordance with the Consent Order for cleanup of chromium contaminated groundwater at the Henderson facility, finalized September 9, 1986, Tronox submits this semi-annual performance report to the Nevada Department of Environmental Protection (NDEP). This report, covering the period July through December, 2005 summarizes performance data for the groundwater treatment plant and evaluates the effectiveness of the groundwater interception and treatment system installed to carry out the chromium mitigation program. In addition, this report also describes chromium mitigation activities at the Athens Road groundwater recovery area.

Figure 1 is a location map with an index of associated figures and plates showing the onsite area of study, the Athens Road area, and the intervening area between the facility and Athens Road.

In December 1998, the Underground Injection Control (UIC) Permit (No. UNEV94218) for the Tronox chromium mitigation system was modified to include changes to the injection program. The treated groundwater from the chromium mitigation system is now piped to an onsite impoundment where it is ultimately treated and discharged to Las Vegas Wash under NPDES permit. The permit modification allows for reinjection of clean Lake Mead water to maintain groundwater levels downgradient from the interception well line. This report contains data requirements relative to the permit modification.



## **ONSITE GROUNDWATER SURFACE CONFIGURATION**

Figure 2 illustrates the Consent Order Monitoring Area as defined in Appendix D of the Consent Order, and shows the locations of groundwater interceptor and monitor wells within this area. This figure also shows the location of a bentonite slurry groundwater barrier wall installed during the time period of August – September 2001. Appendix A of this report presents groundwater elevations recorded from December 1998 to the present in wells within the Consent Order area.

The water table configuration is presented as potentiometric surface maps for the second half of 2005 reflecting quarterly groundwater level measurements. Figure 3 shows the potentiometric surface within the consent order monitoring area for the third quarter of 2005. Groundwater elevation data were recorded in August 2005. Figure 4 presents the groundwater potentiometric surface map for the fourth quarter of 2005 based on groundwater elevation data recorded in November 2005. Figure 5 is a west – east hydrogeological cross-section along the onsite interceptor well line, showing the water levels in the interceptor wells and the relationships between the pre-pumping groundwater level, the current groundwater level, and the underlying contact of the alluvium and Muddy Creek formations.

A review of the potentiometric surface maps shows that broad drawdown bands and some overlapping drawdown cones are present along the extent of the interceptor well line. Many of the interceptor wells have water levels at or below the Muddy Creek formation contact (see Figure 5). The extent to which this drawdown has occurred is shown on Figure 6. This figure is a net drawdown map depicting overall historic drawdown of the groundwater surface from the time initial pumping began (September 1987) to November 2005. During this time frame, groundwater has essentially been “mined” to the point that the previously saturated alluvium is dry in several areas and the water table resides in the uppermost portion of the fine-grained Muddy Creek formation. This condition is due to both pumping in the area and the reduction of water discharge from the Henderson facility to achieve zero discharge status.

Also of note on the potentiometric maps (Figures 3 and 4) is a groundwater high or mound downgradient from the slurry wall in the area of the recharge trenches. This

mounded area is due to recharge of Lake Mead water into the subsurface to balance the loss of groundwater removed from the alluvium and Muddy Creek formations along the interceptor well line. Between the slurry wall and the groundwater “mound” is an area referred to as the “dead zone” where groundwater is trapped between the slurry wall and groundwater mound and is essentially stationary. This area contains the M-70 series wells and is characterized by a very slow decline in chromium concentrations over time.

A more expansive view of the potentiometric surface from the interceptor well line to the north boundary of the facility is shown on Plate 1. Groundwater traveling downgradient from the recharge trenches moves both to the northwest and the northeast at an average gradient of 0.014 to 0.018 feet/feet.

## **ONSITE INTERCEPTOR SYSTEM PERFORMANCE**

In May 1990, monthly analyses for chromium were initiated in several wells located both upgradient and downgradient from the recharge trenches. This schedule was modified to quarterly sampling beginning in the second half of 1997. These data are shown in Tables 1 and 3, and are presented as time versus concentration graphs in Figures 7 and 8. The M-70 series wells presented in Figure 7 are located upgradient from the recharge trenches but downgradient from the barrier wall. The M-80 series wells presented in Figure 8 are located downgradient from the trenches. Both figures show significant declines in chromium concentration with time in the downgradient wells following installation of the slurry wall in September 2001.

Chromium concentration data from the five Consent Order Appendix J wells (see Figure 9) are contained in Table 3. Figure 10 presents these data graphically. Well M-11, immediately downgradient from the old source area (Units 4 and 5), has continued a downward decline in chromium concentration since 1993. Well M-36, upgradient from the interceptor well line and groundwater barrier, is beginning to show a “plateau” in chromium concentration, suggesting that the main portion of the upgradient chromium plume has now reached the area of M-36. The rapid decline in chromium concentrations in wells M-72 and M-86 is due to the presence of the groundwater barrier wall upgradient from the wells. This is also true for the decline evidenced in well M-23, 1600 feet downgradient from the barrier wall.

Plate 2 is a total chromium isoconcentration map of the facility from Lake Mead Drive on the south to the northern boundary of Tronox property near Boulder highway. This map is constructed from limited data collected during the fourth quarter (semi-annual) groundwater sampling episode. The annual reporting period in July contains a more comprehensive chromium map. A comparison of these data over time shows consistent decline in chromium concentrations in the groundwater downgradient from the interceptor well line and barrier wall, indicating that the groundwater recovery / barrier system is functioning as an effective barrier to downgradient migration of the main portion of the chromium plume.

A review of the chromium plume map indicates that the total chromium concentrations exceeding 0.05 mg/l exist in monitor wells to the west, and from past information, to the east of the full extent of the groundwater barrier. Groundwater to the west of the interceptor well line (new wells M-57A and M-14A resides in the upper Muddy Creek fine-grained unit (see Figure 5). Saturation in the alluvium does not occur until further east in the vicinity of interceptor well I-B, which is approximately 75 feet east of the west limit of the barrier wall. The barrier wall appears to have limited movement of impacted groundwater in the alluvium based on downgradient well data.

Total chromium concentrations downgradient from the barrier wall and recharge trenches continue to decline with time. This decline in total chromium values downgradient from the barrier wall is depicted in time versus concentration graphs for selected monitor wells north of the barrier wall area. These graphs are included in Appendix B.

The dead zone wells (M-70, -71, -72) have for the most part declined with time, however, short-term increases have also been noted. These variations in concentration are attributed to water level changes and partial flushing from the groundwater mounding immediately downgradient from these wells.

Tronox instituted a management program to assure maximization of groundwater removal at the individual well locations along the interceptor line by focusing on those wells showing the highest chromium concentrations. Figure 11 portrays total chromium concentration for each interceptor well for November 2005 as compared to the previous

year. Total chromium concentrations appear to be slightly lower at the individual wells overall in 2005 as compared to 2004.

Table 2 lists the pumping rate of each interceptor well for the month of December 2000 through 2004, as compared to December 2005. It is apparent that the presence of the groundwater barrier wall downgradient from the interceptor wells has significantly increased groundwater production. Discharge rates for each well are monitored and adjusted to provide maximum recovery of chromium based on the potentiometric surface configuration, chromium concentration, and well production capability.

## **ONSITE RECOVERY/TREATMENT SYSTEM MAINTENANCE**

General maintenance issues involve weekly calibration of pH and ORP meters, daily cleaning of the turbidity meter, daily condensate draining from the air lines, and routine maintenance of the east and west feed pumps, filter press, and EQ pump. All interceptor wells are checked for operation each day; flow rates are recorded daily, and flowmeter readings (total volume) are recorded for each time-marking well daily. These records indicate when a pump needs to be replaced or a flow rate adjusted. In addition, other maintenance associated with maintaining treatment plant operations was performed. During the second half 2005, the following maintenance was performed on the pumping system: July – cleaned and changed out filter cartridges on interceptor wells. September – replaced pump and motor on interceptor wells I-S, I-P, and I-J. October – installed new feed water pH probe; installed new GWTP mud filter press pump; installed new flow meter on GWTP effluent line. November – replaced pump and motor on interceptor well I-E; replaced pump and motor on interceptor well I-H.

## **GROUNDWATER TREATMENT DATA**

The operation and maintenance of the chromium reduction process was contracted to Veolia Water North America (formerly US Filter Operating Services) on August 1, 2003. Tronox retains responsibility for compliance with the terms of the Consent Order and the subsequent UIC Permit NEV94218. Table 4 contains the process treatment data for the second half of 2005. The total chromium inflow concentration from the interceptor wells to the treatment system has remained fairly steady at around 15 mg/l for the second half of 2005. The reduction of hexavalent chromium for this same time period has been very efficient based on the average monthly values. Total chromium outflow concentrations for July through December have ranged from 0.36 to 0.63 mg/l. These data indicate that the chromium treatment process is working effectively.

## **ATHENS ROAD / SEEP RECOVERY AREA**

Figure 1 shows the locations of both the Athens Road well field and the Seep well field with associated Plate designations. Plate 3 is a potentiometric map of the alluvial groundwater surface from the Athens Road area north to Las Vegas wash. The drawdown cones associated with the recovery wells at both the Athens Road and the Seep areas are apparent. The concave nature of the potentiometric lines through the central portion of the area defines the main alluvial channel flow. The direction of groundwater flow is to the north-northeast with an average gradient of 0.008.

Plate 4 is an isoconcentration map of total chromium in the area from Athens Road to Las Vegas wash. The total chromium groundwater plume splits between Sunset Road and the Athens Road area because of a Muddy Creek ridge or bedrock high. The recovery wells at Athens Road have captured a significant portion of the total chromium impact and have limited further chromium movement toward the wash.

## **LAS VEGAS WASH SURFACE WATER DATA**

Surface water analytical data has been collected from Las Vegas Wash over the past several years by the Southern Nevada Water Authority (SNWA). The SNWA surface water sampling locations in the wash are shown on Figure 12. Both perchlorate and total chromium data were collected on a monthly basis for 2005. These data for the first three quarters of the year are included in Appendix C. A graph of chromium data for the upstream versus downstream wash locations was prepared and included as Figure 13. Chromium data was utilized for three sampling periods which coincided with the quarterly Tronox groundwater sampling episodes. Based on the relative location of the Tronox seep as depicted on the graph, chromium concentrations are significantly higher in the wash upgradient from the seep than downgradient. This indicates that the groundwater chromium plume is not contributing measurable chromium to the wash.

## **CONCLUSIONS**

Chromium concentrations in monitor wells immediately downgradient from the onsite groundwater barrier show a marked decline. Groundwater recovery from the interceptor well line has substantially increased due to the effectiveness of the groundwater barrier wall. Ongoing assessment and monitoring will continue in 2006 to monitor capture of the chromium impacted groundwater upgradient from the groundwater barrier.

Chromium capture at the Athens Road well field has effectively prevented movement of the plume to Las Vegas wash. Tronox will sample several wells along the lateral portion of the main chromium plume during the annual sampling period to confirm the main plume limits.

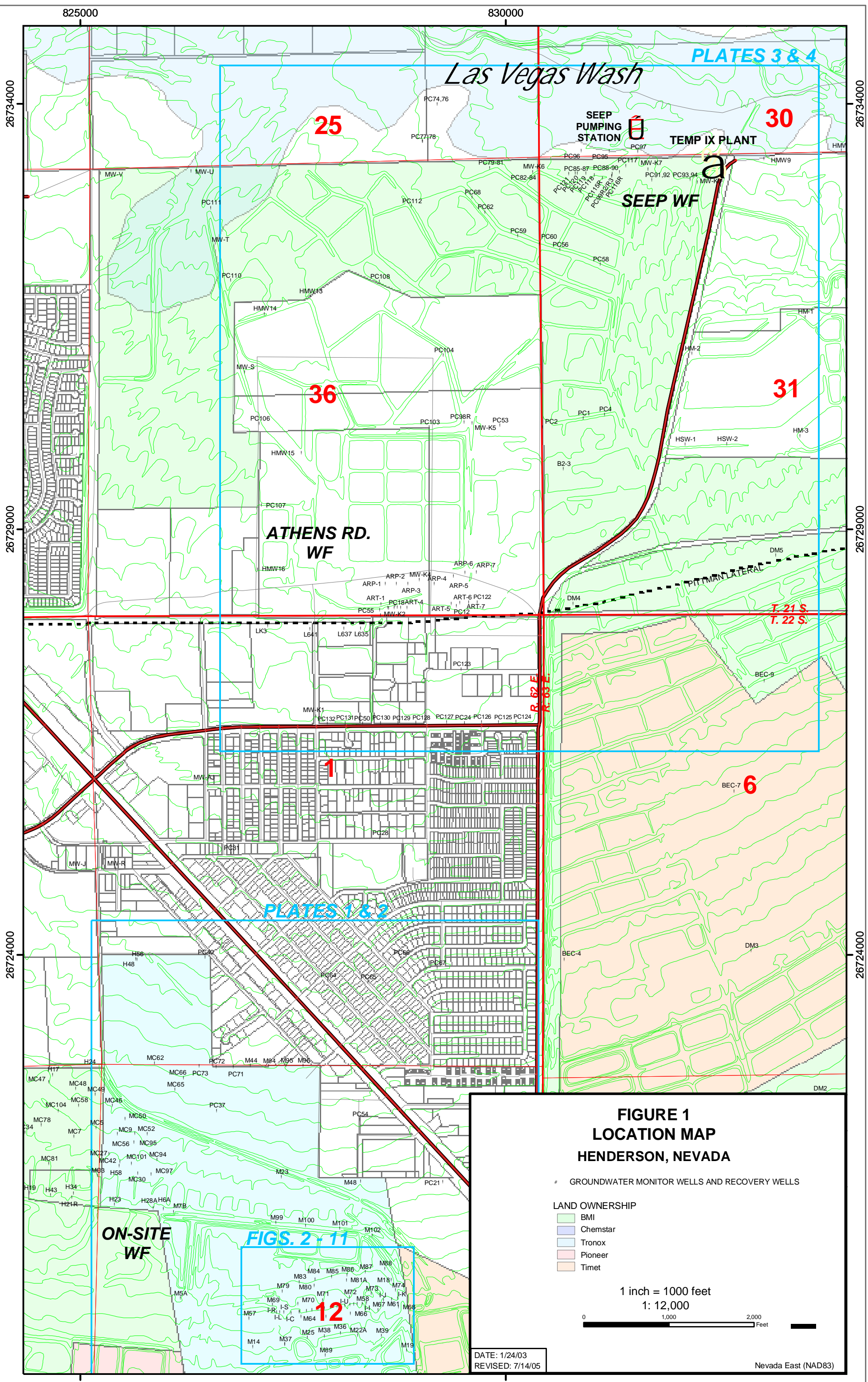
## **PROPOSED FUTURE ACTIVITIES**

Tronox will continue to record water levels in the consent order area on a quarterly basis. Quarterly potentiometric surface maps will be developed. The effect of changing the pumping rates of the interceptor wells will be monitored, and responses (i.e.- pump rate adjustments) will be taken to assure optimal drawdown and plume interception behind the groundwater barrier wall.

Under separate cover, Tronox will be requesting NDEP approval to change the frequency of the Chromium Mitigation Performance report. Following NDEP approval, the groundwater monitoring schedule will be modified to accommodate this change.

## FIGURES

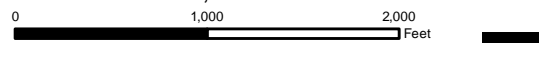




**FIGURE 1  
LOCATION MAP  
HENDERSON, NEVADA**

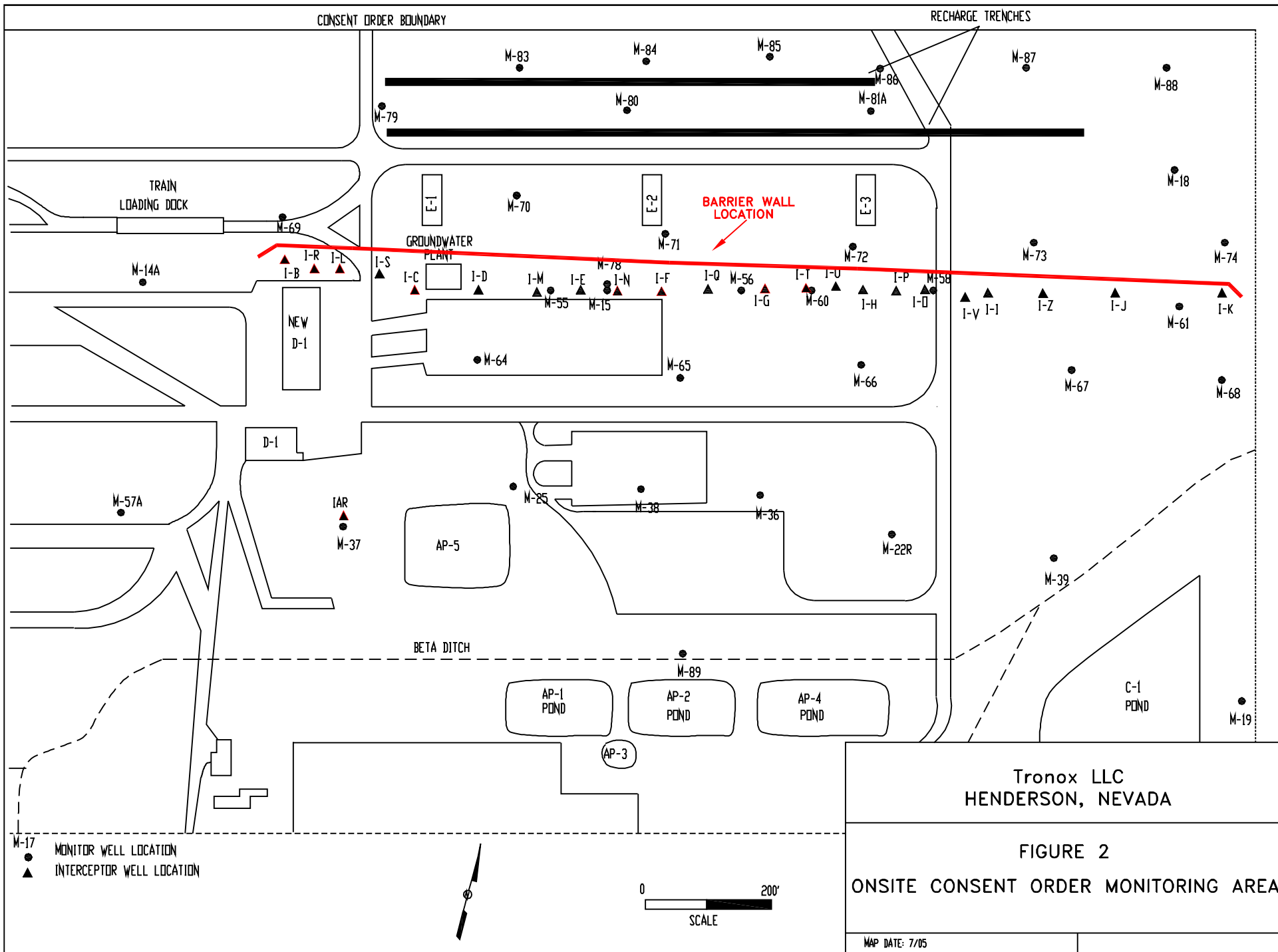
- GROUNDWATER MONITOR WELLS AND RECOVERY WELLS
- LAND OWNERSHIP
  - BMI
  - Chemstar
  - Tronox
  - Pioneer
  - Timet

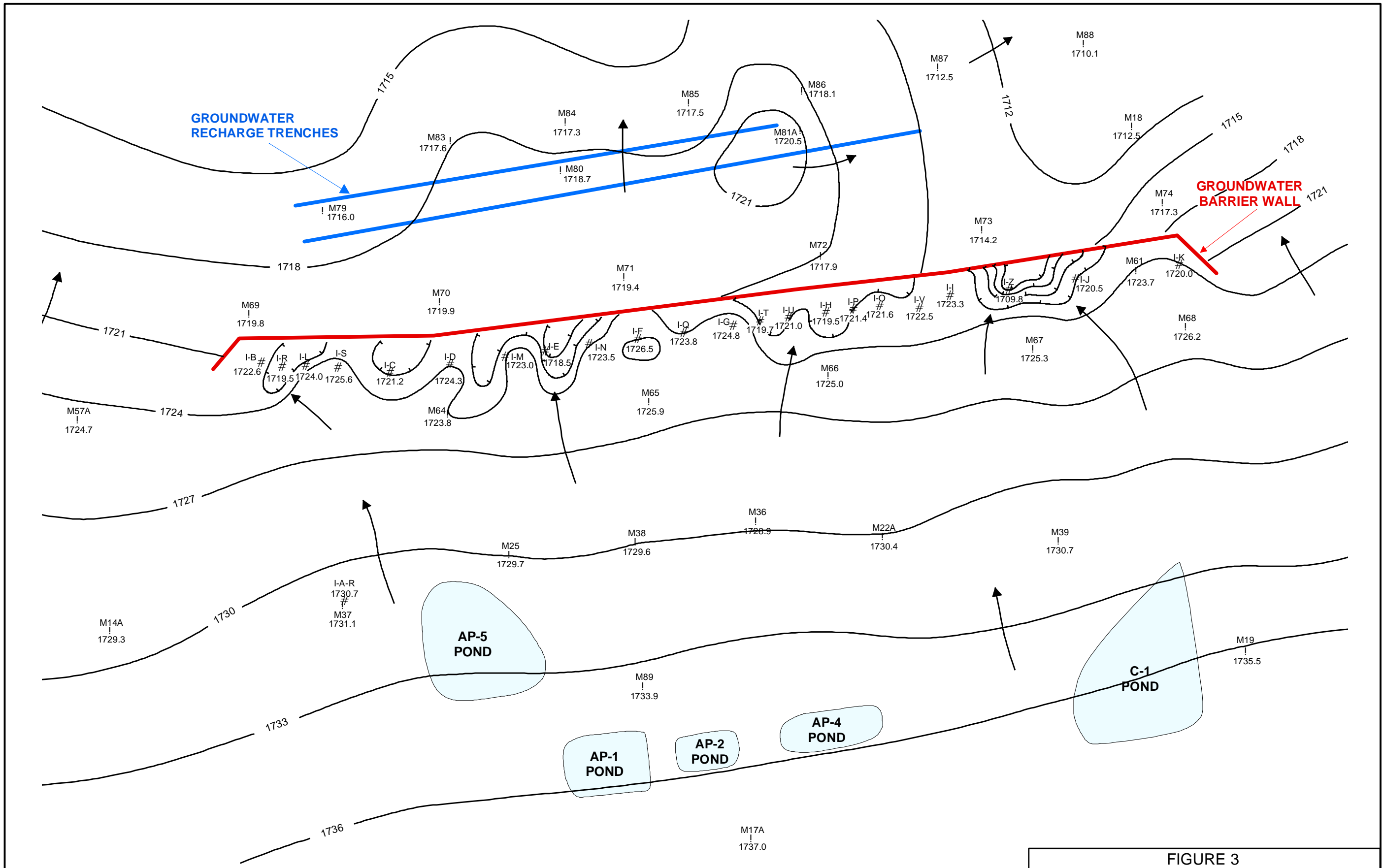
1 inch = 1000 feet  
1: 12,000



DATE: 1/24/03  
REVISED: 7/14/05

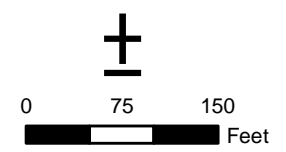
Nevada East (NAD83)



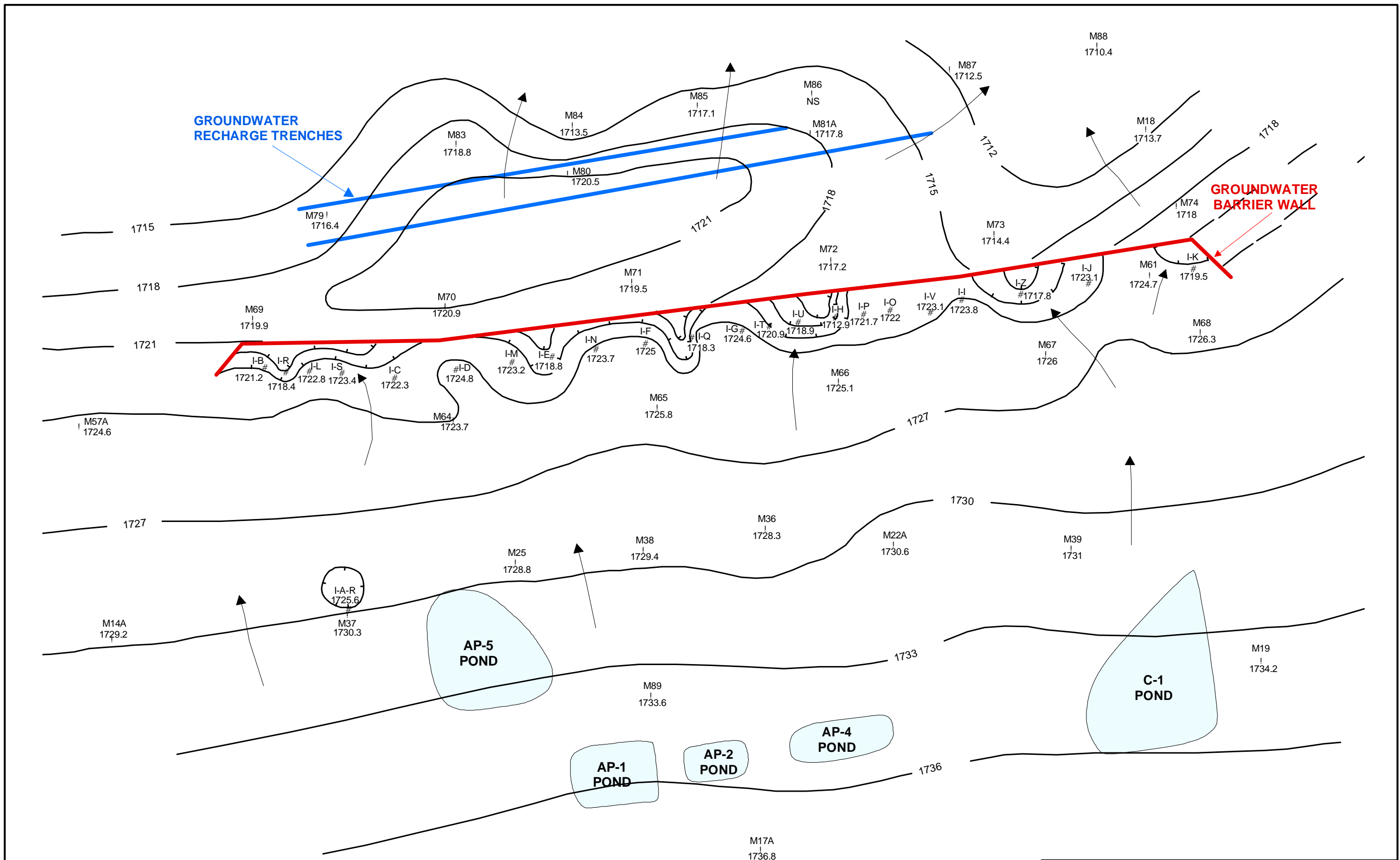


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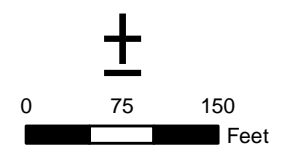
- Water Level Well Location
- # Interceptor Well Location
- Potentiometric Surface Contour
- Line (Ft. MSL) Contour Interval = 3 Ft.
- Water Level Data Recorded August 2005
- ← Direction of Groundwater Flow



**FIGURE 3**  
 Tronox LLC  
 Henderson, Nevada  
**CONSENT ORDER MONITORING AREA**  
**POTENTIOMETRIC SURFACE MAP**  
 AUGUST 2005  
 DATE: 10/05

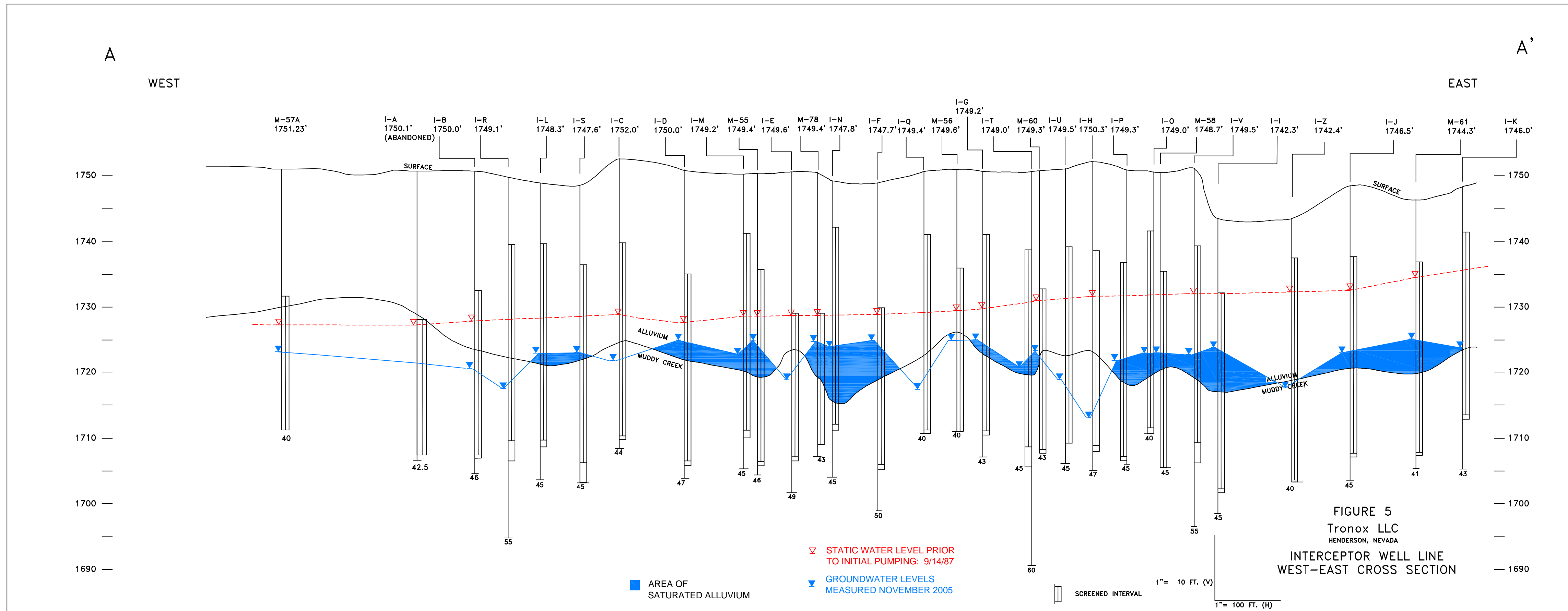


- LEGEND**
- Water Level Well Location
  - # Interceptor Well Location
  - Potentiometric Surface Contour
  - Line (Ft. MSL) Contour Interval = 3 Ft.
  - Water Level Data Recorded November 2005
  - ← Direction of Groundwater Flow

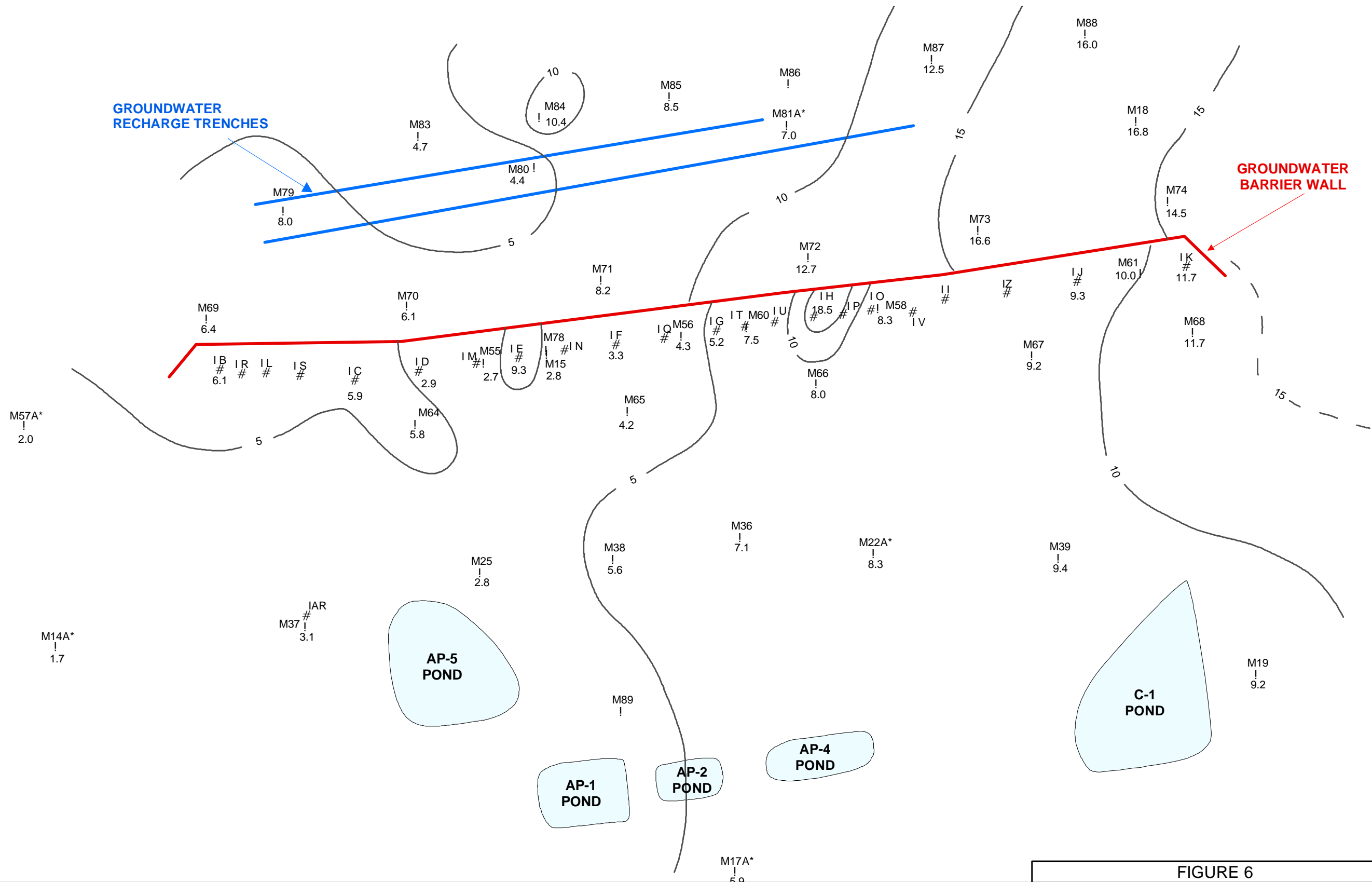


**FIGURE 4**  
 Tronox LLC  
 Henderson, Nevada  
**CONSENT ORDER MONITORING AREA**  
**POTENTIOMETRIC SURFACE MAP**  
 NOVEMBER 2005

DATE: 12/05





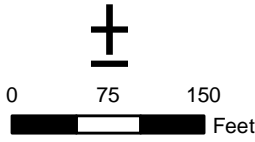


**FIGURE 6**  
 Tronox LLC  
 Henderson, Nevada  
 NET DRAWDOWN AT THE INTERCEPTOR WELL LINE  
 SEPTEMBER 1987 - NOVEMBER 2005  
 DATE: 1/06

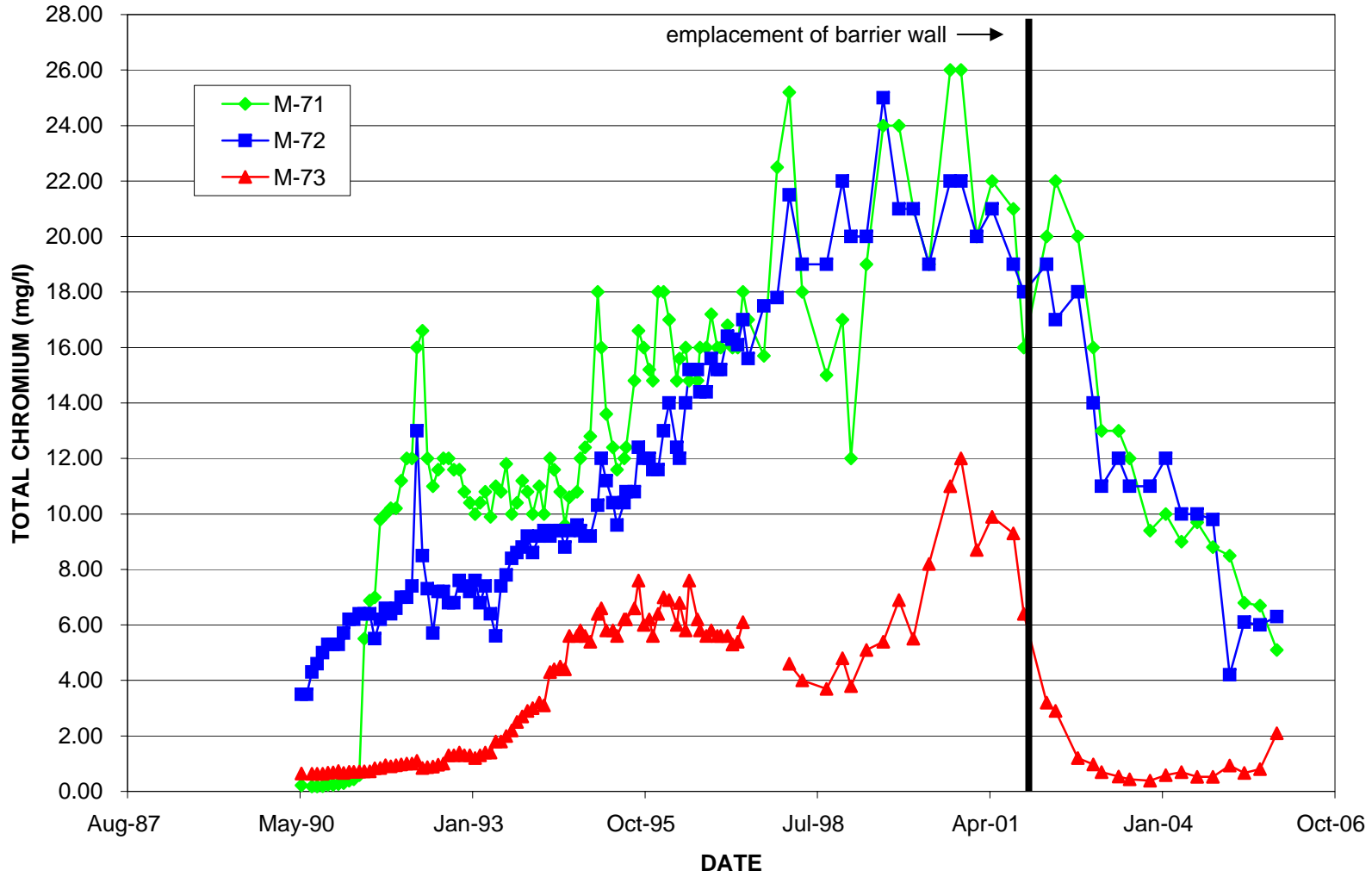
**LEGEND**

- Water Level Well Location (Ref. 1700 Ft. MSL)
- # Interceptor Well Location
- 10 Feet of Net Drawdown

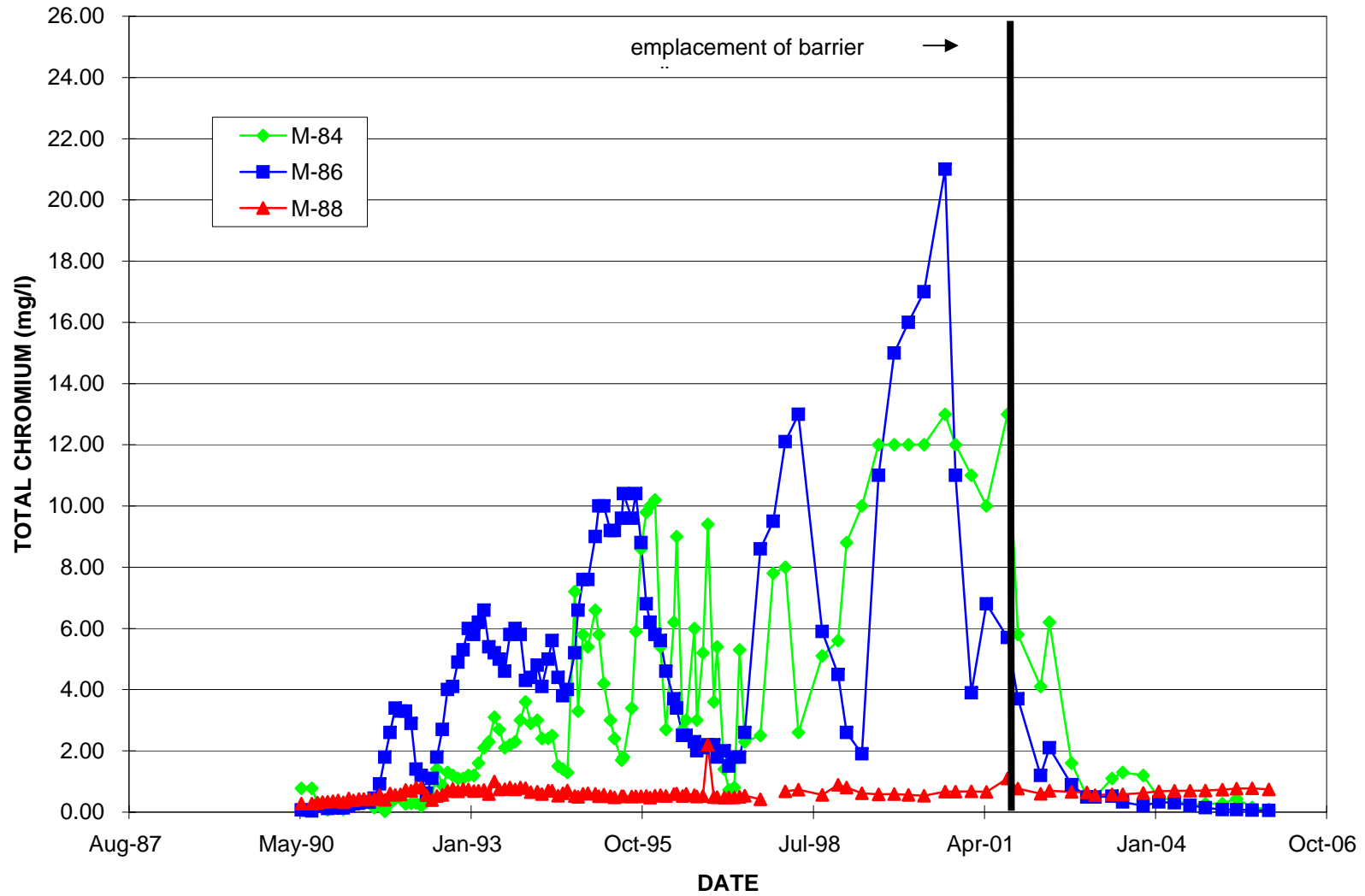
\* SEPTEMBER 1987 DATA  
 TAKEN FROM WELLS  
 M14, M17, M44, M57, M81



**FIGURE 7: RECHARGE TRENCH UPGRADIENT MONITOR WELLS  
TRONOX LLC HENDERSON, NEVADA FACILITY**



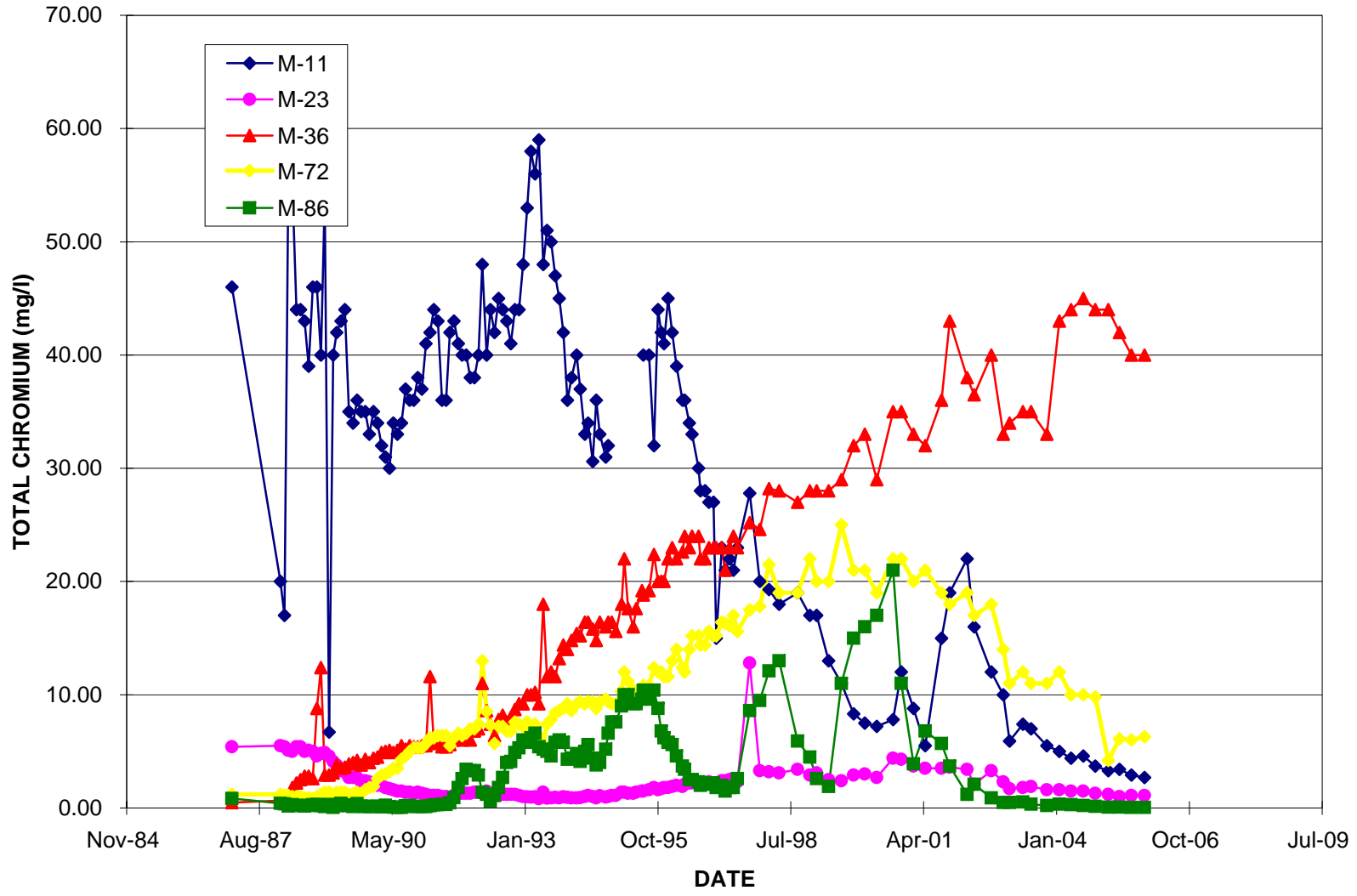
**FIGURE 8: RECHARGE TRENCH DOWNGRADIENT MONITOR WELLS  
TRONOX LLC HENDERSON, NEVADA FACILITY**







**FIGURE 10: APPENDIX J WELLS  
TRONOX LLC HENDERSON, NEVADA FACILITY**



**FIGURE 11: INTERCEPTOR WELL LINE GRAPH  
TRONOX LLC HENDERSON, NEVADA FACILITY**

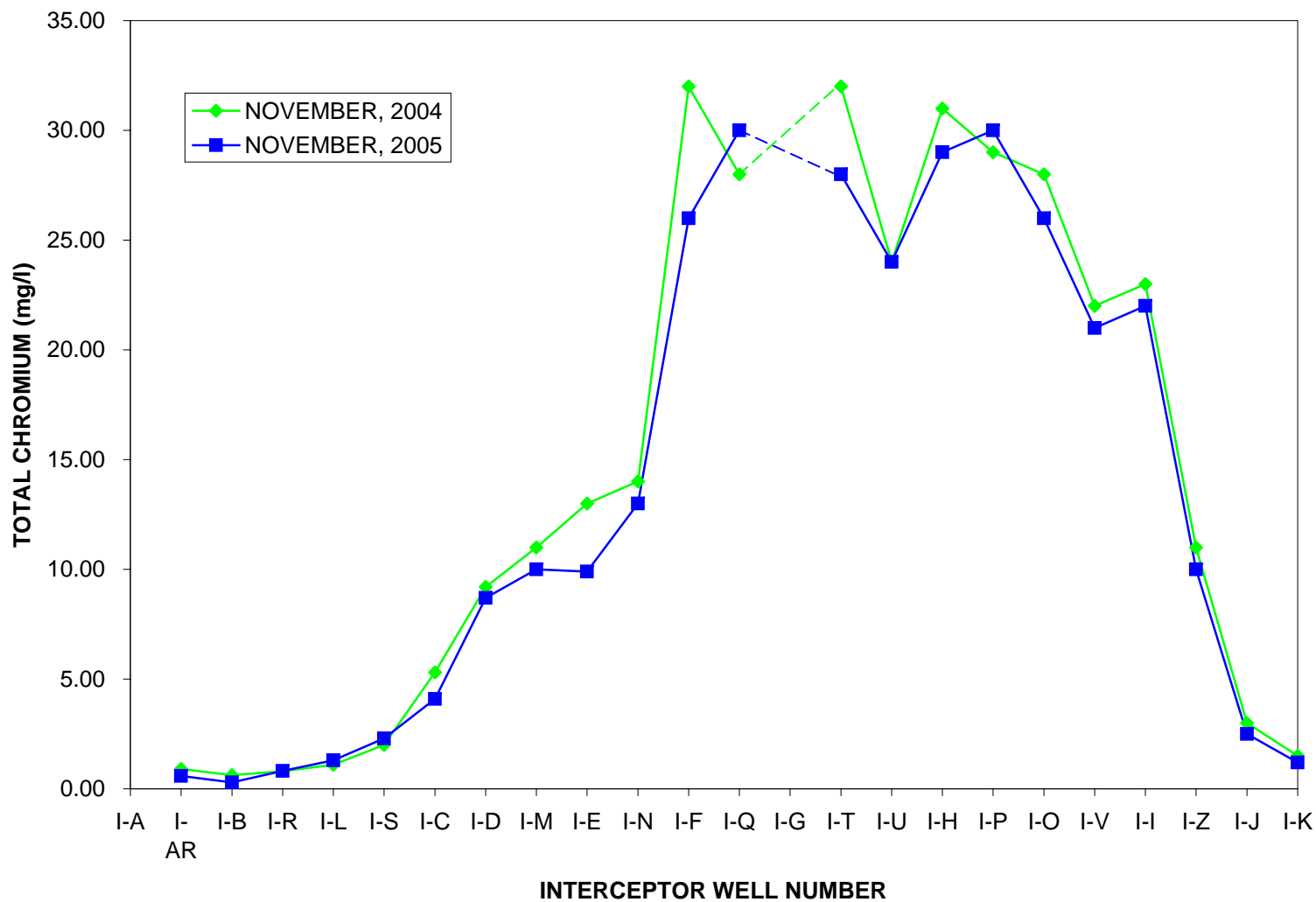
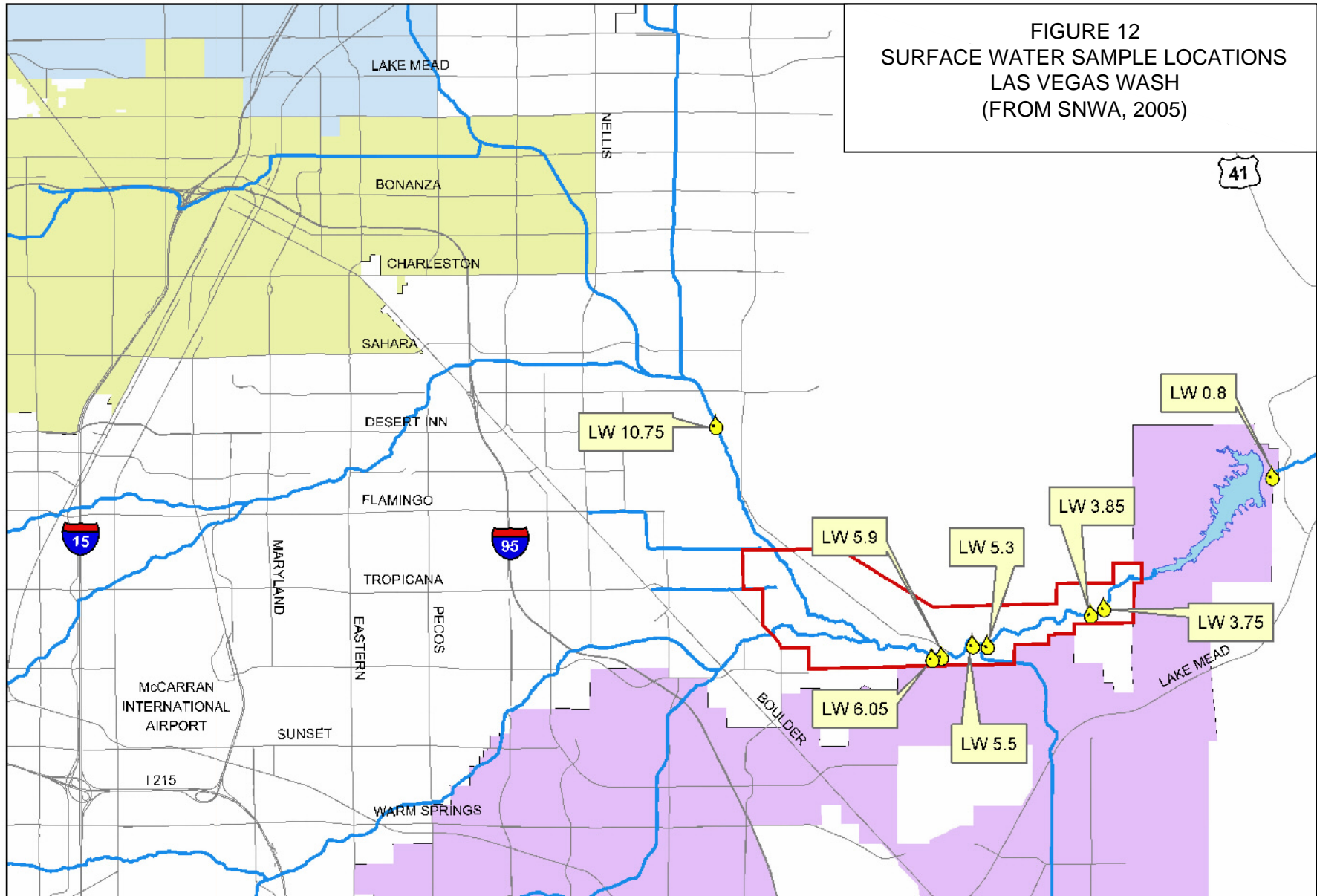
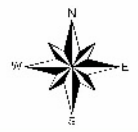


FIGURE 12  
 SURFACE WATER SAMPLE LOCATIONS  
 LAS VEGAS WASH  
 (FROM SNWA, 2005)

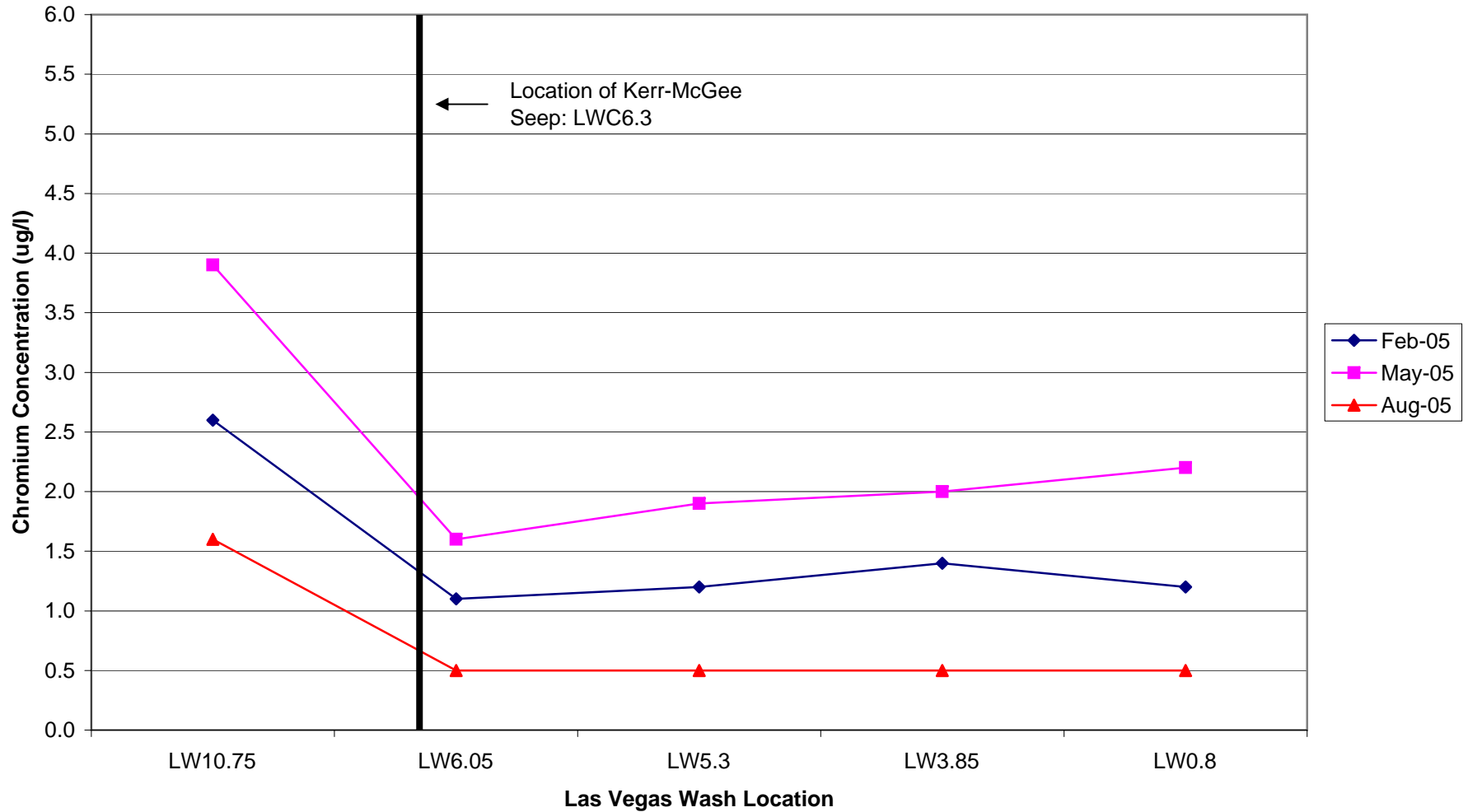


- Wetland Park Boundary
- City of Henderson
- City of Las Vegas
- City of North Las Vegas
- Las Vegas Wash and Tributaries
- 💧 Mainstream Monitoring Sites

0 0.5 1 2 3 Miles  
 FOR PLANNING PURPOSES ONLY



**FIGURE 13**  
**Las Vegas Wash Chromium Concentrations**  
**Upstream City of Las Vegas to Downstream Lake Las Vegas**



**TABLES**

**Table 1**

**Total Chromium (mg/l)  
in Selected Monitoring Wells  
Tronox LLC, Henderson, Nevada**

DATE	WELL #			
	M-71	M-73	M-84	M-88
May-90	0.22	0.65	0.78	0.28
Jun-90				
Jul-90	0.18	0.64	0.78	0.28
Aug-90	0.18	0.64	0.31	0.30
Sep-90	0.19	0.64	0.21	0.33
Oct-90	0.24	0.68	0.07	0.34
Nov-90	0.24	0.69	0.14	0.36
Dec-90	0.27	0.74	0.12	0.38
Jan-91	0.30	0.67	0.09	0.32
Feb-91	0.39	0.71	0.22	0.45
Mar-91	0.44	0.71	0.23	0.38
Apr-91	0.59	0.72	0.27	0.43
May-91	5.50	0.73	0.34	0.43
Jun-91	6.88	0.73	0.34	0.43
Jul-91	7.00	0.83	0.14	0.43
Aug-91	9.80	0.84	0.24	0.55
Sep-91	10.00	0.94	0.02	0.40
Oct-91	10.20	0.90	0.29	0.61
Nov-91	10.20	0.94	0.44	0.56
Dec-91	11.20	0.97	0.45	0.58
Jan-92	12.00	1.00	0.27	0.72
Feb-92	12.00	1.00	0.29	0.70
Mar-92	16.00	1.10	0.30	0.80
Apr-92	16.60	0.84	0.21	0.80
May-92	12.00	0.87	0.34	0.55
Jun-92	11.00	0.89	0.43	0.39
Jul-92	11.60	0.96	1.40	0.53
Aug-92	12.00	1.00	0.87	0.56
Sep-92	12.00	1.30	1.30	0.69
Oct-92	11.60	1.30	1.20	0.76
Nov-92	11.60	1.40	1.10	0.68
Dec-92	10.80	1.30	1.10	0.75
Jan-93	10.40	1.30	1.20	0.74
Feb-93	10.00	1.20	1.20	0.69
Mar-93	10.40	1.30	1.60	0.70
Apr-93	10.80	1.40	2.10	0.72
May-93	9.90	1.40	2.30	0.59
Jun-93	11.00	1.80	3.10	1.00
Jul-93	10.80	1.80	2.70	0.74
Aug-93	11.80	2.00	2.10	0.75
Sep-93	10.00	2.20	2.20	0.80

**Table 1**

**Total Chromium (mg/l)  
in Selected Monitoring Wells  
Tronox LLC, Henderson, Nevada**

<b>DATE</b>	<b>WELL #</b>			
	<b>M-71</b>	<b>M-73</b>	<b>M-84</b>	<b>M-88</b>
Oct-93	10.40	2.50	2.30	0.74
Nov-93	11.20	2.70	3.00	0.80
Dec-93	10.80	2.90	3.60	0.79
Jan-94	10.00	3.00	2.90	0.65
Feb-94	11.00	3.20	3.00	0.67
Mar-94	10.00	3.10	2.40	0.59
Apr-94	12.00	4.30	2.40	0.71
May-94	11.60	4.40	2.50	0.70
Jun-94	10.80	4.50	1.50	0.54
Jul-94	9.60	4.40	1.40	0.62
Aug-94	10.60	5.60	1.30	0.71
Sep-94	10.80	5.60	7.20	0.53
Oct-94	12.00	5.80	3.30	0.50
Nov-94	12.40	5.60	5.80	0.60
Dec-94	12.80	5.40	5.40	0.62
Jan-95	18.00	6.40	6.60	0.60
Feb-95	16.00	6.60	5.80	0.52
Mar-95	13.60	5.80	4.20	0.57
Apr-95	12.40	5.80	3.00	0.52
May-95	11.60	5.60	2.40	0.48
Jun-95	12.00	6.20	1.70	0.52
Jul-95	12.40	6.20	1.80	0.52
Aug-95	14.80	6.60	3.40	0.51
Sep-95	16.60	7.60	5.90	0.52
Oct-95	16.00	6.00	8.60	0.52
Nov-95	15.20	6.20	9.80	0.53
Dec-95	14.80	5.60	10.00	0.47
Jan-96	18.00	6.40	10.20	0.54
Feb-96	18.00	7.00	5.40	0.55
Mar-96	17.00	6.90	2.70	0.53
Apr-96	14.80	6.00	6.20	0.59
May-96	15.60	6.80	9.00	0.61
Jun-96	16.00	5.80	2.70	0.53
Jul-96	14.80	7.60	3.00	0.60
Aug-96	14.80	6.20	6.00	0.55
Sep-96	16.00	5.80	3.00	0.51
Oct-96	16.00	5.60	5.20	0.53
Nov-96	17.20	5.80	9.40	2.20
Dec-96	16.00	5.60	3.60	0.49
Jan-97	16.00	5.60	5.40	0.49
Feb-97	16.80	5.60	1.40	0.47
Mar-97	16.00	5.30	0.72	0.48



**Table 1**

**Total Chromium (mg/l)  
in Selected Monitoring Wells  
Tronox LLC, Henderson, Nevada**

<b>DATE</b>	<b>WELL #</b>			
	<b>M-71</b>	<b>M-73</b>	<b>M-84</b>	<b>M-88</b>
Apr-97	16.00	5.40	0.80	0.48
May-97	18.00	6.10	5.30	0.50
Jun-97	17.00		2.30	0.54
Sep-97	15.70		2.50	0.42
Dec-97	22.50		7.80	
Feb-98	25.20	4.60	8.00	0.68
Apr-98	18.00	4.00	2.60	0.73
Sep-98	15.00	3.70	5.10	0.56
Dec-98	17.00	4.80	5.60	0.89
Feb-99	12.00	3.80	8.80	0.80
May-99	19.00	5.10	10.00	0.62
Aug-99	24.00	5.40	12.00	0.58
Nov-99	24.00	6.90	12.00	0.59
Jan-00	21.00	5.50	12.00	0.56
May-00	19.00	8.20	12.00	0.54
Sep-00	26.00	11.00	13.00	0.67
Nov-00	26.00	12.00	12.00	0.67
Feb-01	20.00	8.70	11.00	0.68
May-01	22.00	9.90	10.00	0.66
Sep-01	21.00	9.30	13.00	1.10
Nov-01	16.00	6.40	5.80	0.77
Mar-02	20.00	3.20	4.10	0.60
May-02	22.00	2.90	6.20	0.70
Sep-02	20.00	1.20	1.60	0.66
Dec-02	16.00	0.97	0.52	0.64
Jan-03	13.00	0.70	0.50	0.55
May-03	13.00	0.54	1.10	0.58
Jul-03	12.00	0.44	1.30	0.58
Nov-03	9.40	0.39	1.20	0.63
Feb-04	10.00	0.59	0.46	0.68
May-04	9.00	0.70	0.40	0.70
Aug-04	9.70	0.53	0.23	0.70
Nov-04	8.80	0.53	0.28	0.71
Feb-05	8.50	0.93	0.28	0.73
May-05	6.80	0.67	0.44	0.77
Aug-05	6.70	0.80	0.15	0.78
Nov-05	5.10	2.10	0.09	0.74

**Table 2**  
**Interceptor Well Discharge Rates**  
**Discharge Rate (gpm)**  
Tronox LLC, Henderson Nevada

<b>WELL #</b>	<b>DEC. 2000</b>	<b>DEC. 2001</b>	<b>DEC. 2002</b>	<b>DEC. 2003</b>	<b>DEC. 2004</b>	<b>DEC. 2005</b>
I-AR	0.96	1.1	0.8	0.9	1.0	0.7
I-B	1.12	1.5	1.7	1.6	1.7	1.2
I-C	2.42	3.8	3.5	3.5	4.4	3.5
I-D	0.53	1.1	2.4	1.4	2.6	1.3
I-E	0.92	0.9	1.4	1.4	1.6	0.8
I-F	2.15	3.9	3.9	3.5	4.2	4.0
I-G	0.01	0.1	0.1	0.1	0.0	0.0
I-H	0.26	0.8	1.1	0.9	1.0	1.7
I-I	3.42	3.8	3.8	4.4	4.9	4.8
I-J	2.90	5.1	5.0	4.8	5.9	3.3
I-K	0.98	4.1	2.8	3.8	4.2	5.3
I-L	0.96	1.5	0.6	1.3	1.7	2.3
I-M	0.53	3.7	3.7	3.3	3.6	3.8
I-N	0.22	3.7	3.5	3.5	3.6	3.2
I-O	0.05	2.8	3.6	3.0	2.8	3.4
I-P	0.53	3.2	4.5	3.3	3.6	4.5
I-Q	0.25	0.7	1.0	0.7	0.6	0.8
I-R	0.83	1.6	0.9	1.7	2.0	1.9
I-S	0.86	2.3	4.6	2.8	3.8	2.5
I-T	0.28	0.5	0.6	0.4	0.1	0.7
I-U	0.51	0.5	0.6	0.7	0.8	1.0
I-V	2.34	6.2	4.0	3.5	3.9	3.7
I-Z				6.9	6.9	9.3
<b>TOTAL</b>	<b>23.01</b>	<b>52.9</b>	<b>54.1</b>	<b>57.4</b>	<b>64.9</b>	<b>63.7</b>

**Table 3**  
**Total Chromium Concentration (mg/l)**  
**in Appendix J Wells**  
Tronox LLC, Henderson, Nevada

DATE	WELL #				
	M-11	M-23	M-36	M-72	M-86
Jan-87	46.00	5.40	0.47	1.20	0.83
Jan-88	20.00	5.50	0.65	1.20	0.40
Feb-88	17.00	5.40	0.75	1.10	0.35
Mar-88	55.00	5.10	1.00	1.10	0.17
Apr-88	55.00	5.00	1.80	1.00	0.29
May-88	44.00	5.40	2.20	1.00	0.21
Jun-88	44.00	5.40	2.50	1.00	0.21
Jul-88	43.00	5.00	2.80	0.89	0.18
Aug-88	39.00	5.10	2.80	0.91	0.21
Sep-88	46.00	5.00	2.60	0.82	0.30
Oct-88	46.00	4.60	8.80	1.00	0.31
Nov-88	40.00	4.80	12.40	1.20	0.20
Dec-88	54.00	4.90	2.90	1.40	0.12
Jan-89	6.70	4.60	2.90	1.40	0.31
Feb-89	40.00	4.10	3.10	1.20	0.06
Mar-89	42.00	3.80	3.80	1.40	0.19
Apr-89	43.00	3.30	3.50	1.40	0.42
May-89	44.00	3.20	3.60	1.40	0.27
Jun-89	35.00	2.70	3.90	1.16	0.20
Jul-89	34.00	2.70	4.00	1.28	0.13
Aug-89	36.00	2.70	4.20	1.40	0.38
Sep-89	35.00	2.30	3.80	1.30	0.17
Oct-89	35.00	2.40	4.30	1.60	0.12
Nov-89	33.00	2.30	4.00	1.80	0.13
Dec-89	35.00	2.10	4.40	1.90	0.14
Jan-90	34.00	2.00	4.50	2.60	0.14
Feb-90	32.00	2.00	4.90	2.90	0.10
Mar-90	31.00	1.80	5.00	3.00	0.25
Apr-90	30.00	1.70	5.10	3.20	0.12
May-90	34.00	1.60	4.90	3.50	0.07
Jun-90	33.00	1.50	5.10	3.50	0.06
Jul-90	34.00	1.50	5.50	4.30	0.04
Aug-90	37.00	1.40	5.20	4.60	0.19
Sep-90	36.00	1.40	5.50	5.00	0.21
Oct-90	36.00	1.30	5.40	5.30	0.12
Nov-90	38.00	1.40	5.40	5.30	0.14
Dec-90	37.00	1.30	5.50	5.30	0.13
Jan-91	41.00	1.20	5.50	5.70	0.13
Feb-91	42.00	1.10	11.60	6.20	0.20
Mar-91	44.00	1.10	5.70	6.20	0.27
Apr-91	43.00	1.10	5.80	6.40	0.29
May-91	36.00	1.00	5.40	6.40	0.32

**Table 3**  
**Total Chromium Concentration (mg/l)**  
**in Appendix J Wells**  
Tronox LLC, Henderson, Nevada

DATE	WELL #				
	M-11	M-23	M-36	M-72	M-86
Jun-91	36.00	1.00	5.40	6.40	0.32
Jul-91	42.00	0.94	5.60	5.50	0.46
Aug-91	43.00	1.10	6.00	6.20	0.92
Sep-91	41.00	1.30	6.20	6.60	1.80
Oct-91	40.00	1.30	6.00	6.40	2.60
Nov-91	40.00	1.30	6.20	6.60	3.40
Dec-91	38.00	1.30	6.00	7.00	3.30
Jan-92	38.00	1.40	6.80	7.00	3.30
Feb-92	40.00	1.40	7.00	7.40	2.90
Mar-92	48.00	1.30	11.00	13.00	1.40
Apr-92	40.00	1.50	8.60	8.50	1.20
May-92	44.00	1.20	7.40	7.30	0.62
Jun-92	42.00	1.20	6.40	5.70	1.10
Jul-92	45.00	1.10	7.80	7.20	1.80
Aug-92	44.00	1.20	8.20	7.20	2.70
Sep-92	43.00	1.20	7.60	6.80	4.00
Oct-92	41.00	1.20	8.00	6.80	4.10
Nov-92	44.00	1.20	8.70	7.60	4.90
Dec-92	44.00	1.10	9.20	7.40	5.30
Jan-93	48.00	1.00	9.20	7.20	6.00
Feb-93	53.00	0.99	10.00	7.60	5.80
Mar-93	58.00	0.97	10.00	6.80	6.20
Apr-93	56.00	0.98	10.20	7.40	6.60
May-93	59.00	0.82	9.20	6.40	5.40
Jun-93	48.00	1.40	18.00	5.60	5.20
Jul-93	51.00	0.87	11.60	7.40	5.00
Aug-93	50.00	0.89	12.00	7.80	4.60
Sep-93	47.00	0.93	11.60	8.40	5.80
Oct-93	45.00	0.89	13.20	8.60	6.00
Nov-93	42.00	0.98	14.40	8.80	5.80
Dec-93	36.00	0.94	14.00	9.20	4.30
Jan-94	38.00	0.90	14.80	8.60	4.40
Feb-94	40.00	0.88	15.40	9.20	4.80
Mar-94	37.00	0.91	15.20	9.40	4.10
Apr-94	33.00	1.00	16.40	9.20	5.00
May-94	34.00	1.10	16.40	9.40	5.60
Jun-94	30.60	1.00	15.80	9.40	4.40
Jul-94	36.00	0.90	14.80	8.80	3.80
Aug-94	33.00	1.08	16.40	9.40	4.00
Sep-94	31.00	0.96	16.00	9.60	5.20
Oct-94	32.00	1.00	16.40	9.40	6.60

**Table 3**  
**Total Chromium Concentration (mg/l)**  
**in Appendix J Wells**  
Tronox LLC, Henderson, Nevada

DATE	WELL #				
	M-11	M-23	M-36	M-72	M-86
Nov-94		1.10	16.40	9.20	7.60
Dec-94		1.10	15.60	9.20	7.60
Jan-95		1.40	18.00	10.31	9.00
Feb-95		1.40	22.00	12.00	10.00
Mar-95		1.30	17.60	11.20	10.00
Apr-95		1.30	16.00	10.40	9.20
May-95		1.40	17.60	9.60	9.20
Jun-95		1.50	19.20	10.40	9.60
Jul-95	40.00	1.50	18.80	10.80	10.40
Aug-95	40.00	1.60	19.20	10.80	9.60
Sep-95	32.00	1.80	22.40	12.40	10.40
Oct-95	44.00	1.60	20.00	12.00	8.80
Nov-95	42.00	1.70	20.00	12.00	6.80
Dec-95	41.00	1.80	20.00	11.60	6.20
Jan-96	45.00	1.80	22.00	11.60	5.80
Feb-96	42.00	1.90	23.00	13.00	5.60
Mar-96	39.00	2.00	22.00	14.00	4.60
Apr-96	36.00	1.90	22.60	12.40	3.70
May-96	36.00	2.10	24.00	12.00	3.40
Jun-96	34.00	2.20	23.00	14.00	2.50
Jul-96	33.00	2.20	24.00	15.20	2.50
Aug-96	30.00	2.20	24.00	15.20	2.30
Sep-96	28.00	2.10	22.00	14.40	2.00
Oct-96	28.00	2.10	22.00	14.40	2.10
Nov-96	27.00	2.30	23.00	15.60	2.20
Dec-96	27.00	2.10	23.00	15.20	2.20
Jan-97	15.00	2.20	23.00	15.20	1.80
Feb-97	23.00	2.40	23.00	16.40	2.00
Mar-97	21.00	2.40	21.00	16.30	1.50
Apr-97	22.00	2.50	23.00	16.10	1.80
May-97	21.00	2.60	24.00	17.00	1.80
Jun-97	23.00	2.30	23.00	15.60	2.60
Sep-97	27.80	12.80	25.20	17.50	8.60
Dec-97	20.00	3.30	24.60	17.80	9.50
Feb-98	19.30	3.20	28.20	21.50	12.10
Apr-98	18.00	3.10	28.00	19.00	13.00
Sep-98	19.00	3.40	27.00	19.00	5.90
Dec-98	17.00	2.90	28.00	22.00	4.50
Feb-99	17.00	3.10	28.00	20.00	2.60
May-99	13.00	2.50	28.00	20.00	1.90
Aug-99	11.00	2.40	29	25	11

**Table 3**  
**Total Chromium Concentration (mg/l)**  
**in Appendix J Wells**  
Tronox LLC, Henderson, Nevada

DATE	WELL #				
	M-11	M-23	M-36	M-72	M-86
Nov-99	8.30	2.90	32	<b>21</b>	15
Jan-00	7.50	3.00	33	<b>21</b>	16
May-00	7.20	2.70	29	<b>19</b>	17
Sep-00	7.80	4.40	35	22	21
Nov-00	12.00	4.30	35.00	22.00	11.00
Feb-01	8.80	3.70	33.00	20.00	3.90
May-01	5.50	3.50	32.00	21.00	6.80
Sep-01	15.00	3.50	36.00	19.00	5.70
Nov-01	19.00	3.60	43.00	18.00	3.70
Mar-02	22.00	3.40	38.00	19.00	1.20
May-02	16.00	2.10	36.50	17.00	2.10
Sep-02	12.00	3.30	40.00	18.00	0.89
Dec-02	10.00	2.30	33.00	14.00	0.49
Jan-03	5.90	1.70	34.00	11.00	0.49
May-03	7.40	1.80	35.00	12.00	0.52
Jul-03	7.00	1.90	35.00	11.00	0.33
Nov-03	5.50	1.60	33.00	11.00	0.21
Feb-04	5.00	1.60	43.00	12.00	0.33
May-04	4.40	1.50	44.00	10.00	0.30
Aug-04	4.60	1.50	45.00	10.00	0.22
Nov-04	3.70	1.30	44.00	9.80	0.14
Feb-05	3.30	1.20	44.00	4.20	0.08
May-05	3.40	1.00	42.00	6.10	0.08
Aug-05	2.90	1.10	40.00	6.00	0.06
Nov-05	2.70	1.10	40.00	6.30	0.05

**Table 4**  
**Groundwater Chromium Treatment Data**  
**July through December 2005**  
Tronox LLC, Henderson, Nevada

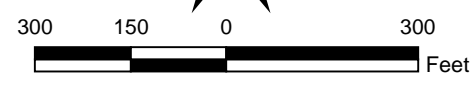
<b>MONTH</b>	<b>AVE. FLOW TO Cr TRTMT (MM GALS)</b>	<b>AVE. TOTAL Cr INFLOW (mg/L)</b>	<b>AVE. Cr VI TREATED OUTFLOW (mg/L)</b>	<b>AVE. TOTAL Cr TREATED OUTFLOW (mg/L)</b>
July	2.9	15.4	0.015	0.513
August	3.0	15.0	0.005	0.625
September	2.8	15.4	0.007	0.372
October	2.9	14.5	0.015	0.463
November	2.9	14.7	<0.005	0.358
December	2.8	15.2	<0.005	0.192

## PLATES





NOTE: THE POTENTIOMETRIC SURFACE FROM THE APPROXIMATE AREA OF THE GROUNDWATER BARRIER WALL TO THE SOUTH PORTION OF THE FACILITY CONTAINS GROUNDWATER LEVELS IN BOTH THE ALLUVIUM AND THE UPPER MUDDY CREEK FINE-GRAINED UNIT. GROUNDWATER MOVES FROM THE MUDDY CREEK UPWARDS INTO THE ALLUVIUM AS IT FLOWS DOWNGRADIENT TO THE NORTH.



**LEGEND**

- Monitor Well
- ▲ Interceptor Well

**Tronox LLC  
HENDERSON, NV**

**PLATE 1  
POTENTIOMETRIC SURFACE MAP: ONSITE AREA  
NOVEMBER 2005**

- 1760 — ISOELEVATION LINE OF POTENTIOMETRIC SURFACE (AMS)  
CONTOUR INTERVAL = 3'
- DIRECTION OF GROUNDWATER FLOW

Map Date: 01/06

2671500

2671600

2671800

2672000

2672500

2671500

2671600

2671800

2672000

2672500

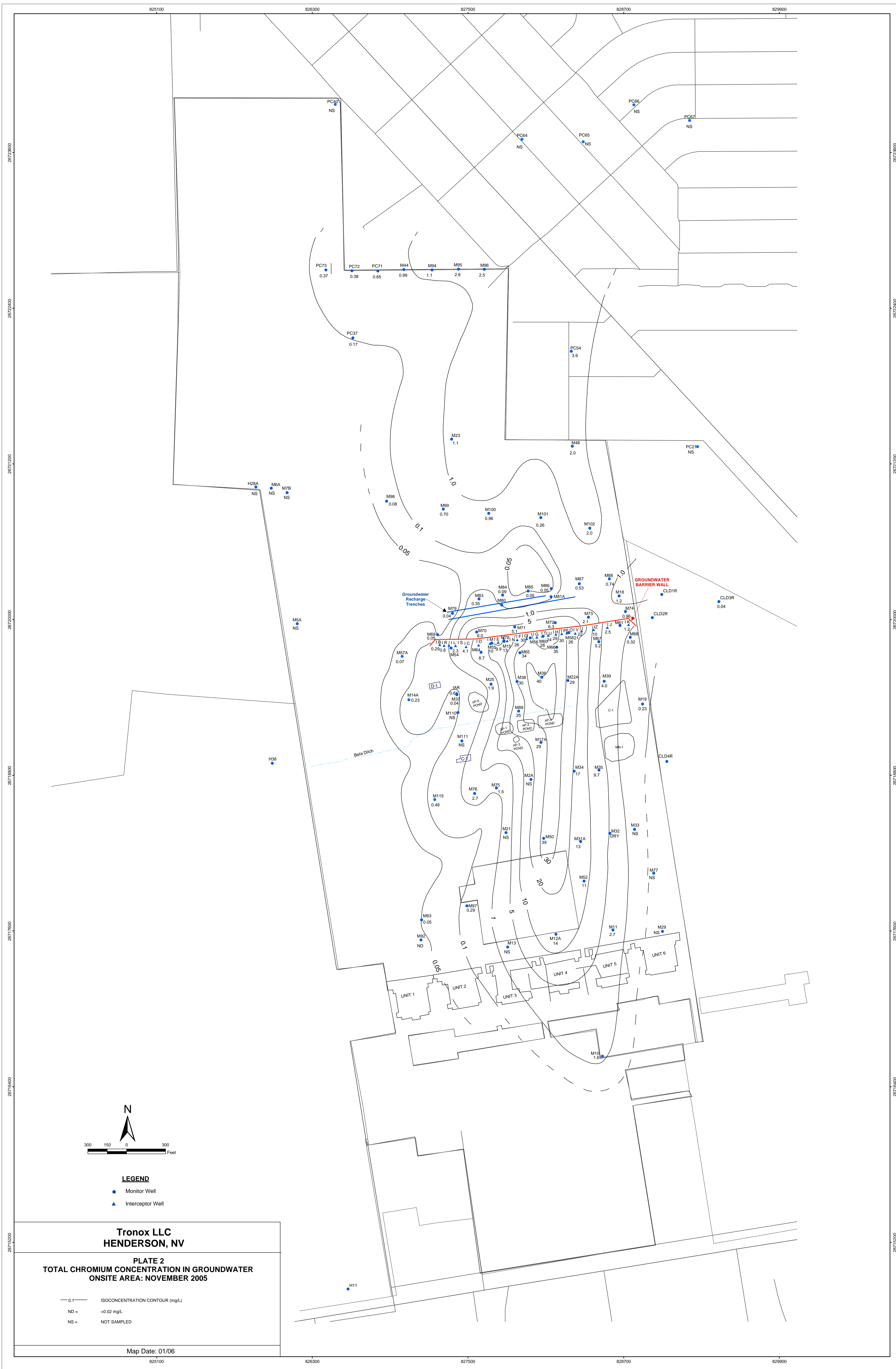
825100

826300

827500

828700

829900



2672600  
2672500  
2672400  
2672300  
2672200  
2672100  
2672000  
2671900  
2671800  
2671700  
2671600  
2671500

825100  
826300  
827500  
828700  
829900



300 150 0 300 Feet

**LEGEND**

- Monitor Well
- ▲ Interceptor Well

**Tronox LLC  
HENDERSON, NV**

**PLATE 2  
TOTAL CHROMIUM CONCENTRATION IN GROUNDWATER  
ONSITE AREA: NOVEMBER 2005**

- 0.1 — ISOCENTRATION CONTOUR (mg/L)
- ND = <0.02 mg/L
- NS = NOT SAMPLED

Map Date: 01/06

825100 826300 827500 828700 829900



828000 830000 832000

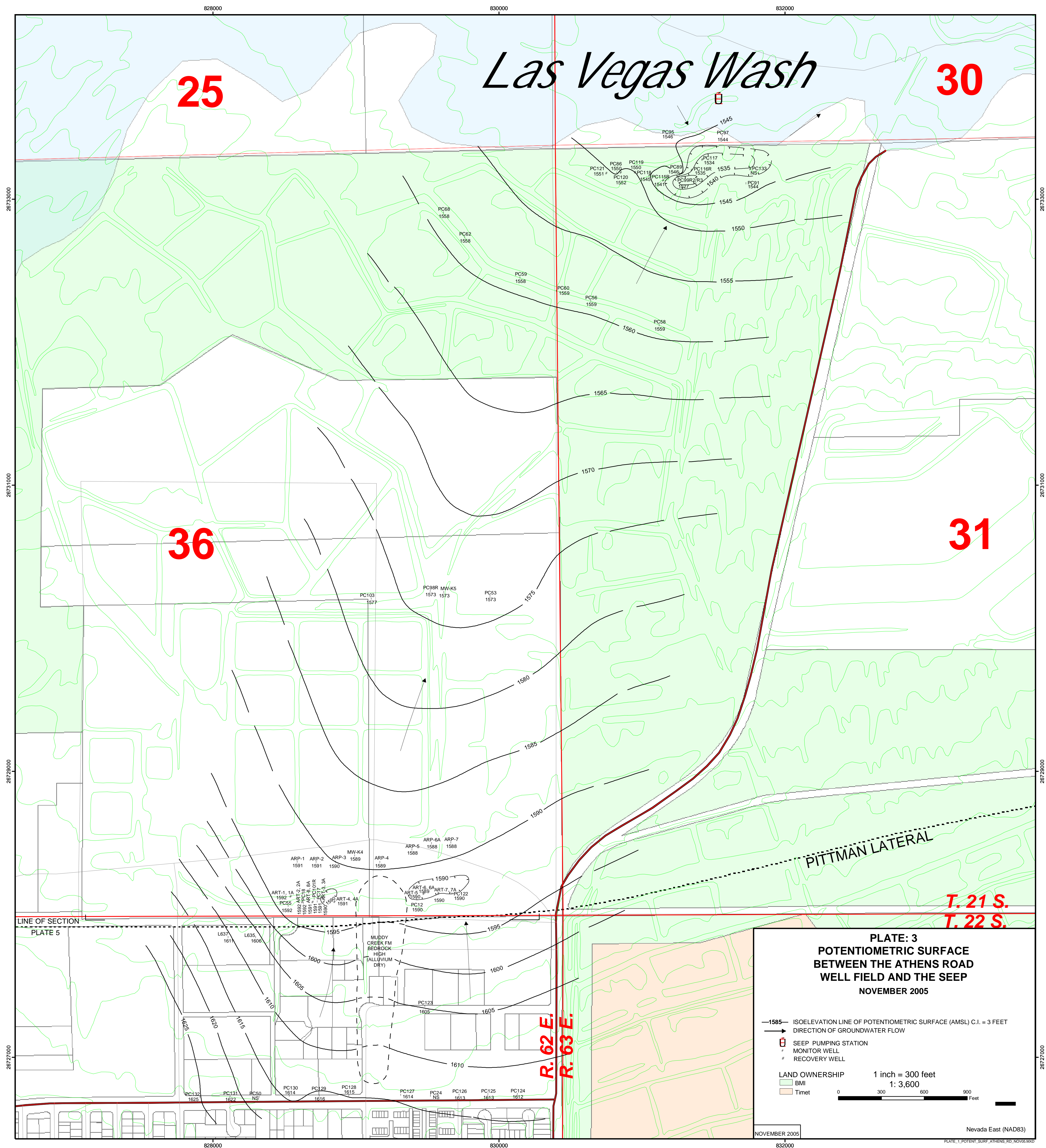
# Las Vegas Wash

25

30

36

31



PITTMAN LATERAL

T. 21 S.  
T. 22 S.

R. 62 E.  
R. 63 E.

LINE OF SECTION  
PLATE 5

**PLATE: 3**  
**POTENTIOMETRIC SURFACE**  
**BETWEEN THE ATHENS ROAD**  
**WELL FIELD AND THE SEEP**  
**NOVEMBER 2005**

- 1585— ISOELEVATION LINE OF POTENTIOMETRIC SURFACE (AMSL) C.I. = 3 FEET
  - DIRECTION OF GROUNDWATER FLOW
  - SEEP PUMPING STATION
  - MONITOR WELL
  - RECOVERY WELL
- LAND OWNERSHIP
- BMI
  - Timet
- 1 inch = 300 feet  
1: 3,600
- 0 300 600 900 Feet

NOVEMBER 2005

Nevada East (NAD83)

PLATE\_1\_POTENT\_SURF\_ATHENS\_RD\_NOV05.MXD

828000 830000 832000

26733000  
26731000  
26729000  
26727000

26733000  
26731000  
26729000  
26727000



# Las Vegas Wash

25

30

36

31

TEMP IX PLANT

PITTMAN LATERAL

T. 21 S.  
T. 22 S.

R. 62 E.  
R. 63 E.

## PLATE: 4 TOTAL CHROMIUM CONCENTRATION MAP BETWEEN THE ATHENS ROAD WELL FIELD AND THE SEEP: NOVEMBER 2005

- 0.1 — ISOCONCENTRATION CONTOUR (mg/l)
- ND = < 0.02 mg/l
- NA = NOT ACCESSIBLE
- NS = NOT SAMPLED
- SEEP PUMPING STATION
- MONITOR WELL
- RECOVERY WELL

LAND OWNERSHIP  
BMI  
Timet

1 inch = 300 feet  
1: 3,600

0 300 600 900 Feet

DATE: 1/9/06  
REVISED:

Nevada East (NAD83)

PLATE: 4\_TOT\_CHROMIUM\_180\_X905.mxd

**APPENDIX A**  
**GROUNDWATER ELEVATIONS**

**KERR-McGEE CHEMICAL LLC  
HENDERSON, NEVADA FACILITY  
GROUNDWATER ELEVATIONS**

TOC-->	M-5A 1751.80		M-6A 1733.2		M-7B 1732.83		M-10 1836.21		M-11 1815.54		M-13 1814.9		M-14 1759.83		M-15 1750.97		M-17 1770.92		M-17A 1768.99		M-18 1740.48				
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV			
15-Dec-98							48.68	1786.08	42.68	1772.86	46.37	1767.86	32.88	1725.95	32.40	1717.29	34.87	1734.67			20.44	1717.84			
04-Feb-99							50.29	1784.47	42.90	1772.64	46.22	1768.01	32.76	1726.07	32.60	1717.09	34.70	1734.84			20.81	1717.47			
24-Mar-99							50.00	1784.76	43.05	1772.49			32.20	1726.63	32.80	1716.89	34.80	1734.74			21.35	1716.93			
04-May-99	37.69	1712.21	38.71	1690.44	33.73	1699.10	49.92	1784.84	43.26	1772.28	46.89	1767.34	32.34	1726.49	33.37	1716.32					21.74	1716.54			
09-Aug-99							50.44	1784.32	43.75	1771.79	47.08	1767.15	34.12	1724.71	33.00	1716.69	35.43	1734.11			22.50	1715.78			
08-Nov-99							49.35	1785.41	43.45	1772.09	46.70	1767.53	34.45	1724.38	33.70	1715.99	35.70	1733.84			23.00	1715.28			
31-Jan-00							48.58	1786.18	42.87	1772.67	46.25	1767.98	34.17	1724.66			35.20	1734.34			23.51	1714.77			
01-May-00	39.44	1710.46	40.60	1688.55	36.69	1696.14	48.50	1786.26	43.30	1772.24	46.65	1767.58	33.95	1724.88	32.81	1716.88	35.35	1734.19			23.86	1714.42			
18-Sep-00							48.23	1786.53	42.39	1773.15	45.30	1768.93	34.12	1724.71	34.10	1715.59	35.77	1733.77			24.57	1713.71			
13-Nov-00							48.08	1786.68	42.20	1773.34	45.18	1769.05	32.78	1726.05	33.98	1715.71	35.53	1734.01			24.80	1713.48			
01-Feb-01							47.87	1786.89	42.46	1773.08	45.15	1769.08	33.80	1725.03			35.53	1734.01			26.62	1711.66			
01-May-01	39.11	1710.79	40.15	1689.00	36.87	1695.96	48.45	1786.31	42.61	1772.93	46.37	1767.86	33.73	1725.10	33.27	1716.42	35.35	1734.19			24.99	1713.29			
01-Sep-01							48.82	1785.94	42.96	1772.58	46.20	1768.03	34.24	1724.59									dry		
01-Nov-01							48.53	1786.23	42.98	1772.56	46.08	1768.15	34.23	1724.60									dry		
01-Mar-02							47.43	1787.33	41.35	1774.19			33.40	1725.43	30.27	1719.42							dry		
01-May-02	39.00	1710.90	39.99	1689.16	36.94	1695.89	47.88	1786.88	42.10	1773.44	44.32	1769.91	33.42	1725.41	29.39	1720.30							dry		
09-Sep-02	38.92	1712.88	40.22	1692.98	37.21	1695.62	48.82	1787.39	42.23	1773.31	44.37	1770.53	31.92	1727.91									dry		
09-Dec-02	38.95	1712.85	40.07	1693.13	37.03	1695.80	48.79	1787.42			44.68	1770.22	32.92	1726.91									dry		
20-Jan-03							48.81	1787.40	42.62	1772.92	45.04	1769.86	33.78	1726.05									dry		
06-May-03	39.07	1712.73	41.02	1692.18	37.16	1695.67	48.94	1787.27	42.72	1772.82	45.62	1769.28	33.75	1726.08									28.21	1710.07	
07-Jul-03	38.97	1712.83	39.51	1693.69	36.87	1695.96	48.93	1787.28	42.80	1772.74													28.92	1709.36	
13-Aug-03							47.95	1788.26	41.74	1773.80														dry	
03-Nov-03							48.28	1787.93	43.33	1772.21															
08-Dec-03							48.31	1787.90	43.44	1772.10														28.38	1709.90
12-Jan-04							48.23	1787.98	43.41	1772.13														28.95	1709.33
02-Feb-04							47.93	1788.28	43.29	1772.25														29.04	1709.24
01-Mar-04							48.07	1788.14	43.06	1772.48														28.88	1709.40
01-Apr-04							47.91	1788.30	42.87	1772.67														29.02	1709.26
03-May-04	39.05	1712.75	38.13	1695.07	35.87	1696.96	47.61	1788.60	42.57	1772.97	45.31	1769.59					32.52	1736.47					29.03	1709.25	
01-Jun-04							47.58	1788.63	42.61	1772.93														29.15	1709.13
01-Jul-04							47.58	1788.63	42.86	1772.68														29.04	1709.24
02-Aug-04							47.75	1788.46	42.74	1772.80														29.08	1709.20
08-Sep-04							47.51	1788.70	42.76	1772.78														28.97	1709.31
04-Oct-04							47.41	1788.80	42.46	1773.08														29.02	1709.26
01-Nov-04							47.41	1788.80	42.15	1773.39														29.06	1709.22
06-Dec-04							47.29	1788.92	42.26	1773.28														28.66	1709.62
03-Jan-05							47.72	1788.49	42.11	1773.43														28.11	1710.17
07-Feb-05							47.90	1788.31	41.82	1773.72			31.64	1729.29									28.08	1710.20	
07-Mar-05							48.15	1788.06	41.87	1773.67			31.13	1729.80			31.93	1737.06					27.93	1710.35	
14-Apr-05							48.62	1787.59	42.01	1773.53			31.11	1729.82			31.84	1737.15					27.91	1710.37	
02-May-05							48.14	1788.07	42.09	1773.45	44.64		31.14	1729.79			31.53	1737.45					28.09	1710.19	
06-Jun-05	38.01	1713.79	38.37	1694.83	35.72	1697.11	47.58	1788.63	42.37	1773.17			31.34	1729.59			31.66	1737.33					28.04	1710.24	
11-Jul-05							47.93	1788.28	42.35	1773.19			31.53	1729.40			31.87	1737.12					28.11	1710.17	
01-Aug-05							47.81	1788.40	42.99	1772.55			31.62	1729.31			32.02	1736.97					27.98	1710.30	
06-Sep-05							47.56	1788.65	42.15	1773.39			31.64	1729.29			32.21	1736.78					27.68	1710.60	
03-Oct-05							47.51	1788.70	42.25	1773.29			31.77	1729.16			32.31	1736.68					27.79	1710.49	
07-Nov-05							47.40	1788.81	42.10	1773.44			31.73	1729.20			32.23	1736.76					26.81	1711.47	
19-Dec-05							47.54	1788.67	42.38	1773.16			31.81	1729.12			32.29	1736.70					27.86	1710.42	
09-Jan-06							48.03	1788.18	42.57	1772.97			31.82	1729.11			32.32	1736.67					27.71	1710.57	

**KERR-McGEE CHEMICAL LLC  
HENDERSON, NEVADA FACILITY  
GROUNDWATER ELEVATIONS**

TOC-->	M-19 1766.77		M-22A 1759.46		M-23 1720.35		M-25 1759.93		M-31 1789.63		M-31A 1796.87		M-36 1759.82		M-37 1761.06		M-38 1759.73		M-39 1761.13	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
15-Dec-98	32.18	1734.08	29.10	1728.66	22.15	1690.63	33.41	1724.41	39.52	1748.87			31.67	1726.27	31.42	1727.86	31.05	1726.89	29.28	1730.03
4-Feb-99	32.69	1733.57	29.00	1728.76	21.70	1691.08	33.35	1724.47	39.50	1748.89			31.47	1726.47	31.43	1727.85	30.94	1727.00	30.02	1729.29
24-Mar-99	33.00	1733.26	29.00	1728.76	21.70	1691.08	33.40	1724.42	39.20	1749.19			31.60	1726.34	31.60	1727.68	31.00	1726.94	30.38	1728.93
4-May-99	33.03	1733.23	29.26	1728.50	21.87	1690.91	33.33	1724.49	39.28	1749.11			31.48	1726.46	31.43	1727.85	30.90	1727.04	30.59	1728.72
9-Aug-99	33.79	1732.47	29.90	1727.86	22.62	1690.16	33.76	1724.06	40.20	1748.19			32.09	1725.85	32.11	1727.17	31.31	1726.63	31.12	1728.19
8-Nov-99	33.80	1732.46	30.31	1727.45	23.11	1689.67	34.00	1723.82	39.01	1749.38			32.42	1725.52	32.51	1726.77	31.48	1726.46	31.60	1727.71
31-Jan-00	34.40	1731.86	30.29	1727.47	24.06	1688.72	33.70	1724.12	39.50	1748.89			32.30	1725.64	32.09	1727.19	31.31	1726.63	31.58	1727.73
01-May-00	34.50	1731.76	30.36	1727.40	24.64	1688.14	33.53	1724.29	40.00	1748.39			32.29	1725.65	31.55	1727.73	31.30	1726.64	31.70	1727.61
18-Sep-00	35.24	1731.02	30.91	1726.85	25.14	1687.64	34.11	1723.71	39.87	1748.52			32.79	1725.15	32.29	1726.99	31.91	1726.03	32.26	1727.05
13-Nov-00	33.97	1732.29	30.95	1726.81	25.61	1687.17	33.95	1723.87	39.92	1748.47			32.70	1725.24	33.00	1726.28	31.40	1726.54	32.22	1727.09
01-Feb-01	34.93	1731.33	30.92	1726.84	26.37	1686.41	33.93	1723.89	38.75	1749.64			33.73	1724.21	34.09	1725.19	31.42	1726.52	32.23	1727.08
01-May-01	35.06	1731.20	30.73	1727.03	26.64	1686.14	33.58	1724.24	P&A				32.62	1725.47	32.62	1726.66	31.17	1726.77	32.10	1727.21
01-Sep-01	35.33	1730.93	30.77	1726.99	26.85	1685.93	33.77	1724.05					32.43	1725.51	32.04	1727.24	31.38	1726.56	31.96	1727.35
01-Nov-01	35.00	1731.26	30.00	1727.76	27.00	1685.78	33.42	1724.40					31.95	1725.99	32.10	1727.18	31.32	1726.62	31.54	1727.77
01-Mar-02	34.00	1732.26	29.56	1728.20			33.20	1724.62					31.78	1726.16	32.10	1727.18	31.10	1726.84	31.10	1728.21
01-May-02	34.02	1732.24	29.18	1728.58	27.90	1684.88	32.82	1725.00					31.35	1726.59	31.51	1727.77	30.81	1727.13	30.60	1728.71
09-Sep-02	34.22	1732.55	29.08	1730.38	27.85	1692.50	32.30	1727.63					31.22	1726.60	30.94	1730.12	32.75	1726.98	30.62	1730.51
09-Dec-02	35.73	1731.04	29.23	1730.23	27.48	1692.87	33.07	1726.86					31.47	1728.35	32.04	1729.02	31.01	1728.72	30.72	1730.41
20-Jan-03	35.27	1731.50	29.25	1730.21	27.38	1692.97	33.27	1726.66					31.59	1728.23	33.23	1727.83	31.05	1728.68	30.66	1730.47
05-May-03	35.10	1731.67	29.36	1730.10	27.02	1693.33	33.23	1726.70					31.61	1728.21	32.90	1728.16	31.07	1728.66	30.80	1730.33
07-Jul-03	35.89	1730.88	29.49	1729.97	27.05	1693.30	33.36	1726.57					31.73	1728.09	32.41	1728.65	31.11	1728.62	30.99	1730.14
13-Aug-03	34.80	1731.97	29.60	1729.86	26.82	1693.53	33.35	1726.58					31.80	1728.02	32.30	1728.76	31.10	1728.63	31.13	1730.00
03-Nov-03	34.98	1731.79	29.97	1729.49	27.06	1693.29	33.76	1726.17					32.13	1727.69	34.13	1726.93	31.36	1728.37	31.42	1729.71
08-Dec-03	35.17	1731.60	30.37	1729.09	27.09	1693.26	33.84	1726.09					32.35	1727.47	34.31	1726.75	31.43	1728.30	31.83	1729.30
12-Jan-04	35.41	1731.36	30.62	1728.84	27.09	1693.26	33.91	1726.02					32.53	1727.29	34.03	1727.03	31.51	1728.22	32.06	1729.07
02-Feb-04	35.44	1731.33	30.77	1728.69	27.07	1693.28	33.96	1725.97					32.63	1727.19	34.03	1727.03	31.54	1728.19	32.18	1728.95
01-Mar-04	35.26	1731.51	30.67	1728.79	26.98	1693.37	33.82	1726.11					32.56	1727.26	34.31	1726.75	31.41	1728.32	31.99	1728.14
01-Apr-04	35.23	1731.54	30.42	1729.04	26.88	1693.47	33.12	1726.81					32.23	1727.59	32.28	1728.78	30.91	1728.82	31.81	1729.32
03-May-04	34.91	1731.86	30.15	1729.31	26.67	1693.68	32.73	1727.20	45.39	1751.48			30.77	1729.05	31.59	1729.47	30.77	1728.96	31.65	1729.48
01-Jun-04	35.09	1731.68	30.19	1729.27	26.81	1693.54	33.11	1726.82					31.99	1727.83	32.37	1728.69	31.08	1728.65	31.68	1729.45
01-Jul-04	35.39	1731.38	30.51	1728.95	26.79	1693.56	33.46	1726.47					32.23	1727.59	32.81	1728.25	31.28	1728.45	32.04	1729.09
02-Aug-04	35.51	1731.26	30.53	1728.93	26.73	1693.62	33.48	1726.45					32.28	1727.54	32.09	1728.97	31.25	1728.48	32.06	1729.07
08-Sep-04	34.82	1731.95	30.51	1728.95	26.83	1693.52	33.74	1726.19					32.41	1727.41	32.31	1728.75	31.39	1728.34	31.84	1729.29
04-Oct-04	35.32	1731.45	30.54	1728.92	26.94	1693.41	32.97	1726.96					32.34	1727.48	31.61	1729.45	30.08	1729.65	32.05	1729.08
01-Nov-04	35.23	1731.54	30.47	1728.99	27.11	1693.24	32.45	1727.48					32.09	1727.73	30.79	1730.27	30.84	1728.89	32.02	1729.11
06-Dec-04	34.07	1732.70	30.01	1729.45	26.98	1693.37	32.63	1727.30					31.81	1728.01	31.31	1729.75	30.79	1728.94	31.35	1729.78
03-Jan-05	33.47	1733.30	29.44	1730.02	26.64	1693.71	32.18	1727.75					31.29	1728.53	30.48	1730.58	30.47	1729.26	30.69	1730.44
07-Feb-05	33.32	1733.45	29.26	1730.20	26.38	1693.97	31.93	1728.00					31.24	1728.58	30.60	1730.46	30.41	1729.32	30.51	1730.62
07-Mar-05	32.92	1733.85	28.84	1730.62	25.96	1694.39	31.32	1728.61					30.91	1728.91	30.35	1730.71	29.99	1729.74	30.19	1730.94
14-Apr-05	32.91	1733.86	28.89	1730.57	25.63	1694.72	30.91	1729.02	44.99	1751.88			30.84	1728.98	30.08	1730.98	29.87	1729.86	30.22	1730.91
02-May-05	33.08	1733.69	28.92	1730.54	25.54	1694.81	30.77	1729.16	45.18	1751.69			30.81	1729.01	30.02	1731.04	29.84	1729.89	30.25	1730.88
06-Jun-05	32.91	1733.86	28.79	1730.67	25.41	1694.94	30.71	1729.22	45.48	1751.39			30.67	1729.15	29.96	1731.10	29.82	1729.91	30.21	1730.92
11-Jul-05	33.06	1733.71	28.99	1730.47	25.34	1695.01	30.86	1729.07	45.68	1751.19			30.88	1728.94	29.99	1731.07	30.04	1729.69	30.33	1730.80
01-Aug-05	31.24	1735.53	29.04	1730.42	25.31	1695.04	30.24	1729.69	43.37	1753.50			30.97	1728.85	29.99	1731.07	30.11	1729.62	30.39	1730.74
06-Sep-05	33.16	1733.61	29.04	1730.42	25.17	1695.18	31.28	1728.65	45.83	1751.04			31.07	1728.75	30.22	1730.84	30.32	1729.41	30.37	1730.76
03-Oct-05	33.03	1733.74	29.11	1730.35	25.14	1695.21	31.23	1728.70	45.89	1750.98			31.14	1728.68	30.53	1730.53	30.33	1729.40	30.39	1730.74
07-Nov-05	32.61	1734.16	28.90	1730.56	25.10	1695.25	31.09	1728.84	45.88	1750.99			31.50	1728.32	30.74	1730.32	30.28	1729.45	30.08	1731.05
19-Dec-05	32.39	1734.38	28.97	1730.49	25.01	1695.34	31.03	1728.90	45.93	1750.94			31.09	1728.73	30.64	1730.42	30.28	1729.45	30.19	1730.94
09-Jan-06	32.87	1733.90	28.99	1730.47	24.98	1695.37	30.88	1729.05	46.01	1750.86			31.04	1728.78	30.44	1730.62	30.21	1729.52	30.29	1730.84





**KERR-McGEE CHEMICAL LLC  
HENDERSON, NEVADA FACILITY  
GROUNDWATER ELEVATIONS**

TOC-->	M-61 1746.84		M-62 1752.92		M-63 1750.59		M-64 1749.76		M-65 1753.91		M-66 1754.24		M-67 1745.91		M-68 1748.73		M-69 1749.76		M-70 1748.25	
	DTW	FLEV	DTW	FLEV	DTW	FLEV	DTW	FLEV	DTW	FLEV	DTW	FLEV	DTW	FLEV	DTW	FLEV	DTW	FLEV	DTW	FLEV
15-Dec-98	23.55	1722.00	30.60	1722.32	28.15	1722.44	30.15	1719.61	32.60	1720.28	30.55	1721.78	21.00	1723.98	22.20	1725.24	30.18	1718.59	29.15	1717.81
4-Feb-99	22.40	1723.15	28.58	1724.34	27.80	1722.79	30.10	1719.66	32.35	1720.53	29.58	1722.75	20.10	1724.88	21.60	1725.84	30.00	1718.77	29.65	1717.31
24-Mar-99	23.33	1722.22	28.77	1724.15	28.00	1722.59	30.40	1719.36	32.53	1720.35	29.90	1722.43	20.54	1724.44	22.90	1724.54	30.50	1718.27	30.40	1716.56
4-May-99	23.70	1721.85	29.10	1723.82	28.23	1722.36	30.55	1719.21	32.64	1720.24	30.35	1721.98	20.90	1724.08	23.18	1724.26	31.14	1717.63	30.91	1716.05
9-Aug-99	24.20	1721.35	30.50	1722.42	28.70	1721.89	30.82	1718.94	32.90	1719.98	30.89	1721.44	21.42	1723.56	23.60	1723.84	31.52	1717.25	31.00	1715.96
8-Nov-99	24.85	1720.70	30.64	1722.28	28.98	1721.61	32.03	1717.73	33.00	1719.88	31.45	1720.88	22.04	1722.94	24.29	1723.15	31.92	1716.85	31.14	1715.82
31-Jan-00	24.99	1720.56	30.09	1722.83	28.94	1721.65	30.81	1718.95	32.95	1719.93	31.47	1720.86	22.03	1722.95	24.01	1723.43	32.00	1716.77	31.10	1715.86
01-May-00	25.11	1720.44	P&A		P&A		30.35	1719.41	32.87	1720.01	31.60	1720.73	22.24	1722.74	24.52	1722.92	31.31	1717.46	30.87	1716.09
18-Sep-00	25.20	1720.35					31.90	1717.86	33.10	1719.78	31.80	1720.53	22.41	1722.57	24.86	1722.58	32.20	1716.57	31.65	1715.31
13-Nov-00	25.10	1720.45					31.80	1717.96	33.05	1719.83	31.85	1720.48	22.40	1722.58	24.68	1722.76	32.10	1716.67	31.60	1715.36
01-Feb-01	27.23	1718.32					32.87	1716.89	34.61	1718.27	31.89	1720.44			26.29	1721.15	31.99	1716.78	32.40	1714.56
01-May-01	25.82	1719.73					30.43	1719.33	33.22	1719.66	32.10	1720.23	22.75	1722.23	25.75	1721.69	31.30	1717.47	30.22	1716.74
01-Sep-01	24.60	1720.95					32.22	1717.54	33.93	1718.95	31.57	1720.76	21.77	1723.21	25.49	1721.95	33.50	1715.27	31.78	1715.18
01-Nov-01	23.12	1722.43					30.31	1719.45	31.91	1720.97	29.86	1722.47	20.38	1723.60	24.14	1723.30	33.42	1717.45	33.55	1713.41
01-Mar-02	23.15	1722.40					28.88	1720.88	31.32	1721.56	29.20	1723.13	19.99	1724.99	24.00	1723.44	33.03	1715.74	32.55	1714.41
01-May-02	21.31	1724.24					28.60	1721.16	30.48	1722.40	29.29	1723.04	19.70	1725.28	24.92	1722.52	33.28	1715.49	33.95	1713.01
09-Sep-02	22.20	1724.64					27.85	1721.91	29.53	1724.38	28.80	1725.44	19.43	1726.48	23.26	1725.47	31.96	1717.80	30.05	1718.20
09-Dec-02	21.95	1724.89					28.67	1721.09	30.04	1723.87	28.92	1725.32	19.45	1726.46	23.12	1725.61	32.12	1717.64	30.30	1717.95
20-Jan-03	23.18	1723.66					28.82	1720.94	31.62	1722.29	29.09	1725.15			24.85	1723.88	32.42	1717.34	29.70	1718.55
05-May-03	22.32	1724.52					28.81	1720.95	30.35	1723.56	28.76	1725.48	19.48	1726.43	23.48	1725.25	32.00	1717.76	30.30	1717.95
07-Jul-03	22.08	1724.76					29.17	1720.59	30.81	1723.10	29.28	1724.96	19.80	1726.11	23.41	1725.32	32.30	1717.46	30.32	1717.93
13-Aug-03	22.63	1724.21					29.50	1720.26	31.80	1722.11	29.32	1724.92	19.80	1726.11	25.80	1722.93	33.38	1716.38	30.20	1718.05
03-Nov-03	23.47	1723.37					29.51	1720.25	31.37	1722.54	30.04	1724.20	20.99	1724.92	24.22	1724.51	31.04	1718.72	27.96	1720.29
08-Dec-03	24.11	1722.73					29.64	1720.12	31.69	1722.22	30.86	1723.38	21.64	1724.27	24.67	1724.06	30.70	1719.06	28.06	1720.19
12-Jan-04	24.21	1722.63					29.76	1720.00	31.97	1722.94	31.11	1723.13	21.83	1724.08	24.86	1723.87	30.98	1718.78	28.63	1719.62
02-Feb-04	24.27	1722.57					29.85	1719.91	32.44	1721.47	31.22	1723.02	21.94	1723.97	24.86	1723.87	31.23	1718.53	28.87	1719.38
01-Mar-04	24.18	1722.66					29.81	1719.95	32.28	1721.63	31.22	1723.02	21.84	1724.07	24.62	1724.11	31.52	1718.24	29.09	1719.16
01-Apr-04	24.05	1722.79					29.10	1720.66	31.54	1722.37	31.01	1723.23	21.96	1723.95	24.62	1724.11	31.81	1717.95	29.53	1718.72
03-May-04	24.13	1722.71					28.57	1721.19	30.76	1723.15	30.78	1723.46	21.67	1724.24	24.67	1724.06	31.71	1718.05	29.31	1718.94
01-Jun-04	23.86	1722.98					28.72	1721.04	30.72	1723.19	30.73	1723.51	21.31	1724.60	24.57	1724.16	30.78	1718.98	28.78	1719.47
01-Jul-04	24.34	1722.50					29.21	1720.55	31.19	1722.72	31.09	1723.15	21.98	1723.93	24.98	1723.75	31.44	1718.32	28.84	1719.41
02-Aug-04	24.09	1722.75					29.42	1720.34	31.37	1722.54	31.04	1723.20	21.76	1724.15	25.63	1723.10	31.99	1717.77	29.72	1718.53
08-Sep-04	24.19	1722.65					29.54	1720.22	31.77	1722.14	31.02	1723.22	21.82	1724.09	24.71	1724.02	32.04	1717.72	30.66	1717.59
04-Oct-04	24.31	1722.53					29.61	1720.15	32.11	1721.80	31.14	1723.10	21.97	1723.94	24.92	1723.81	32.26	1717.50	31.05	1717.20
01-Nov-04	24.37	1722.47					28.83	1720.93	31.22	1722.69	31.13	1723.11	21.97	1723.94	24.88	1723.85	32.17	1717.59	30.91	1717.34
06-Dec-04	23.99	1722.85					28.73	1721.03	30.59	1723.32	30.74	1723.50	21.56	1724.35	24.37	1724.36	32.02	1717.74	30.78	1717.47
03-Jan-05	23.09	1723.75					28.19	1721.57	29.95	1723.96	29.32	1724.92	20.81	1725.10	23.13	1725.60	31.54	1718.22	29.98	1718.27
07-Feb-05	23.04	1723.80					27.68	1722.08	30.78	1723.13	29.64	1724.60	20.71	1725.20	23.29	1725.44	31.11	1718.65	28.88	1719.37
07-Mar-05	22.77	1724.07					26.84	1722.92	28.94	1724.97	29.31	1724.93	20.37	1725.54	22.96	1725.77	30.76	1719.00	29.67	1718.58
14-Apr-05	22.92	1723.92					25.56	1724.20	28.32	1725.59	29.39	1724.85	20.52	1725.39	23.99	1724.74	30.46	1719.30	29.45	1718.80
02-May-05	23.04	1723.80					25.83	1723.93	28.13	1725.78	29.34	1725.80	20.53	1725.38	23.29	1725.44	30.41	1719.35	29.73	1718.52
06-Jun-05	23.06	1723.78					25.49	1724.27	27.72	1726.19	28.74	1725.50	20.29	1725.62	23.42	1725.31	30.12	1719.64	28.92	1719.33
11-Jul-05	23.14	1723.70					25.81	1723.95	27.94	1725.97	29.12	1725.12	20.38	1725.35	23.38	1725.35	30.03	1719.73	28.71	1719.54
01-Aug-05	23.15	1723.69					25.98	1723.78	28.02	1725.89	29.19	1725.05	20.56	1725.35	22.57	1726.16	29.96	1719.80	28.36	1719.89
06-Sep-05	22.49	1724.35					26.48	1723.28	28.33	1725.58	29.15	1725.09	20.17	1725.74	23.12	1725.61	29.84	1719.92	28.03	1720.22
03-Oct-05	22.74	1724.10					26.27	1723.49	28.14	1725.77	29.23	1725.01	20.27	1725.64	23.26	1725.47	29.93	1719.83	28.45	1719.80
07-Nov-05	22.16	1724.68					26.10	1723.66	28.12	1725.79	29.10	1725.14	19.93	1725.88	22.43	1726.30	29.90	1719.86	27.36	1720.89
19-Dec-05	22.45	1724.39					25.81	1723.95	27.99	1725.92	29.18	1725.06	20.22	1725.69	22.82	1725.91	29.58	1720.18	26.68	1721.57
09-Jan-06	22.54	1724.30					25.63	1724.13	27.75	1726.16	29.08	1725.16	20.22	1725.69	23.02	1725.71	29.41	1720.35	26.19	1722.06

**KERR-McGEE CHEMICAL LLC  
HENDERSON, NEVADA FACILITY  
GROUNDWATER ELEVATIONS**

TOC-->	M-71 1747.05		M-72 1746.5		M-73 1741.15		M-74 1744.38		M-78 1751.51		M-79 1742.54		M-80 1746.04		M-81A 1744.16		M-82A 1740.21		M-83 1742.36	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
15-Dec-98	28.29	1717.59	25.74	1719.55	19.74	1720.31	22.80	1720.62	34.65	1716.36	25.25	1717.68	31.00	1714.73	25.40	1716.68	22.90	1715.45	25.72	1715.11
4-Feb-99	29.40	1716.48	25.32	1719.97	19.64	1720.41	20.00	1723.42	34.68	1716.33	26.85	1716.08	31.14	1714.59	24.60	1717.48	23.59	1714.76	26.46	1714.37
24-Mar-99	30.00	1715.88	25.58	1719.71	19.84	1720.21	22.65	1720.77	34.80	1716.21	27.72	1715.21	31.95	1713.78	25.98	1716.10	24.13	1714.22	27.20	1713.63
4-May-99	30.78	1715.10	26.22	1719.07	20.44	1719.61	23.02	1720.40	35.00	1716.01	28.28	1714.65	32.56	1713.17	26.92	1715.16	24.72	1713.63	27.89	1712.94
9-Aug-99	30.97	1714.91	27.22	1718.07	21.21	1718.84	23.58	1719.84	35.30	1715.71	28.68	1714.25	33.05	1712.68	27.89	1714.19	25.40	1712.95	28.82	1712.01
8-Nov-99	31.55	1714.33	27.78	1717.51	21.58	1718.47	24.20	1719.22	33.68	1717.33	29.15	1713.78	33.40	1712.33	29.10	1712.98	25.89	1712.46	29.37	1711.46
31-Jan-00	31.63	1714.25	28.30	1716.99	22.03	1718.02	24.34	1719.08	29.21	1713.72	29.21	1713.72	32.18	1713.55	30.19	1711.89	25.64	1712.71	29.48	1711.35
01-May-00	31.07	1714.81	28.37	1716.92	22.17	1717.88	24.77	1718.65	35.14	1715.87	28.80	1714.13	33.60	1712.13	30.09	1711.99	25.53	1712.82	29.18	1711.65
18-Sep-00	32.14	1713.74	28.91	1716.38	22.84	1717.21	24.55	1718.87	34.30	1716.71	29.15	1713.78	34.75	1710.98	31.30	1710.78	26.05	1712.30	29.75	1711.08
13-Nov-00	31.90	1713.98	28.99	1716.30	22.98	1717.07	24.70	1716.72	34.30	1716.71	29.05	1713.88	34.80	1710.93	31.38	1710.70	25.90	1712.45	29.73	1711.10
01-Feb-01	32.16	1713.72	29.17	1716.12	23.07	1716.98	26.65	1716.77	35.65	1715.36	29.42	1713.51	34.77	1710.96	31.79	1710.29	25.91	1712.44	29.70	1711.13
01-May-01	31.97	1713.91	29.03	1716.26	23.03	1717.02	25.72	1717.70	33.63	1717.38	28.43	1714.50	33.88	1711.85	31.58	1710.50	25.11	1713.24	27.78	1713.05
01-Sep-01	32.92	1712.96	29.33	1715.96	26.60	1713.45	32.27	1718.74	30.86	1712.07	30.86	1712.07	34.65	1711.08	32.27	1709.81	P&A		30.22	1710.61
01-Nov-01	32.40	1713.48	30.39	1714.90	28.53	1711.52	28.59	1714.83	30.98	1720.03	31.69	1711.24	33.60	1712.13	28.74	1713.34			28.60	1712.23
01-Mar-02	29.10	1716.78	30.30	1714.99	28.75	1711.30	27.98	1715.44	38.84	1712.17	30.00	1712.93	31.24	1714.49	28.96	1713.12			28.13	1712.70
01-May-02	30.31	1715.57	31.65	1713.64	28.80	1711.25	27.57	1715.85	29.45	1722.06	30.84	1712.09	32.45	1713.28	30.65	1711.43			30.02	1710.81
09-Sep-02	26.34	1720.71	29.76	1716.74	28.57	1712.58	27.41	1716.97			28.78	1713.76	25.55	1720.49	26.99	1717.17			24.60	1717.76
09-Dec-02	26.91	1720.14	29.84	1716.66	28.44	1712.71	27.35	1717.03	30.78	1720.73	28.61	1713.93	27.79	1718.25	27.89	1716.27			25.39	1716.97
20-Jan-03	27.32	1719.73	30.78	1715.72	29.51	1711.64	28.55	1715.83			26.14	1716.40	27.73	1718.31	26.33	1717.83			24.52	1717.84
05-May-03	28.18	1718.87	30.07	1716.43	29.95	1711.20	28.10	1716.28			28.10	1714.44	29.72	1716.32	26.61	1717.55			26.23	1716.13
07-Jul-03	27.45	1719.60	30.90	1715.60	29.65	1711.50	28.82	1715.56			28.52	1714.02	27.71	1718.33	26.81	1717.35			26.21	1716.15
13-Aug-03	27.00	1720.05	29.42	1717.08	28.30	1712.85	27.82	1716.56	29.75	1721.76	28.60	1713.94	27.50	1718.54	26.05	1718.11			26.00	1716.36
03-Nov-03	30.21	1716.84	31.24	1715.26	28.87	1712.28	28.10	1716.28			24.33	1718.21	29.48	1716.56	29.21	1714.95			24.72	1717.64
08-Dec-03	29.76	1717.29	31.43	1715.07	28.91	1712.24	28.32	1716.06	30.44	1721.07	25.18	1717.36	29.17	1716.87	27.72	1716.44			24.88	1717.48
12-Jan-04	29.66	1717.39	29.99	1716.51	28.91	1712.24	28.48	1715.90	30.83	1720.68	26.47	1716.07	29.41	1716.63	26.72	1717.44			25.37	1716.99
02-Feb-04	29.33	1717.72	29.82	1716.68	28.76	1712.39	28.54	1715.84	31.22	1720.29	26.47	1716.07	28.99	1717.05	26.73	1717.43			25.47	1716.89
01-Mar-04	28.57	1718.48	31.24	1715.26	28.94	1712.21	28.11	1716.27	31.37	1720.14	27.58	1714.96	27.39	1718.65	28.14	1716.02			25.28	1717.08
01-Apr-04	29.11	1717.94	31.35	1715.15	29.03	1712.12	28.35	1716.03	30.43	1721.08	27.63	1714.91	28.44	1717.60	27.77	1716.39			25.93	1716.43
03-May-04	28.91	1718.14	31.21	1715.29	28.91	1712.24	28.49	1715.89	29.69	1721.82	27.73	1714.81	27.62	1718.42	26.96	1717.20			25.68	1716.68
01-Jun-04	29.45	1717.60	31.34	1715.16	28.94	1712.21	28.58	1715.80	29.49	1722.02	25.29	1717.25	28.49	1717.55	27.18	1716.98			25.48	1716.88
01-Jul-04	28.41	1718.64	29.77	1716.73	28.71	1712.44	28.72	1715.66	30.04	1721.47	26.82	1715.72	26.95	1719.09	25.63	1718.53			25.03	1717.33
02-Aug-04	29.61	1717.44	29.76	1716.74	28.54	1712.61	28.68	1715.70	33.37	1718.14	27.31	1715.23	29.05	1716.99	25.63	1718.53			26.14	1716.22
08-Sep-04	29.92	1717.13	29.49	1717.01	28.21	1712.94	28.52	1715.86	30.72	1720.79	27.78	1714.76	29.99	1716.05	26.69	1717.47			26.76	1715.60
04-Oct-04	30.23	1716.82	29.61	1716.89	28.29	1712.86	28.66	1715.72	31.14	1720.37	28.21	1714.33	30.29	1715.75	25.34	1718.82			27.37	1714.99
01-Nov-04	29.69	1717.36	29.51	1716.99	28.16	1712.99	28.74	1715.64	29.79	1721.72	28.26	1714.28	29.89	1716.15	24.78	1719.38			27.31	1715.05
06-Dec-04	29.42	1717.63	29.44	1717.06	27.92	1713.23	28.07	1716.31	29.46	1722.05	28.16	1714.38	29.68	1716.36	24.92	1719.24			27.10	1715.26
03-Jan-05	27.86	1719.19	27.71	1718.79	26.98	1714.17	26.99	1717.39	28.83	1722.68	27.66	1714.88	28.52	1717.52	24.63	1719.53			25.92	1716.44
07-Feb-05	27.13	1719.92	27.84	1718.66	26.56	1714.59	26.62	1717.76	28.17	1723.34	27.04	1715.50	27.16	1718.88	22.88	1721.28			25.26	1717.10
07-Mar-05	28.71	1718.34	28.95	1717.55	26.71	1714.44	26.56	1717.82	27.52	1723.99	27.32	1715.22	28.73	1717.31	25.64	1718.52			25.94	1716.42
14-Apr-05	28.58	1718.47	29.36	1717.14	27.41	1713.74	26.83	1717.55	26.81	1724.70	27.03	1715.51	28.39	1717.65	24.51	1719.65			26.05	1716.31
02-May-05	29.27	1717.78	29.57	1716.93	27.52	1713.63	26.82	1717.56	26.46	1725.05	27.31	1715.23	28.87	1717.17	25.33	1718.83			26.27	1716.09
06-Jun-05	28.46	1718.59	29.03	1717.47	26.66	1714.49	27.21	1717.17	26.28	1725.23	26.71	1715.83	28.23	1717.81	24.33	1719.83			25.44	1716.92
11-Jul-05	28.19	1718.86	29.04	1717.46	27.21	1713.94	27.15	1717.23	26.56	1724.95	26.64	1715.90	27.84	1718.20	24.14	1720.02			25.19	1717.17
01-Aug-05	27.63	1719.42	28.62	1717.88	26.92	1714.23	27.06	1717.32	24.53	1726.98	26.53	1716.01	27.38	1718.66	23.66	1720.50			24.78	1717.58
06-Sep-05	27.71	1719.34	28.34	1718.16	26.49	1714.66	26.91	1717.47	26.89	1724.62	26.21	1716.33	27.36	1718.68	23.74	1720.42			24.47	1717.89
03-Oct-05	27.99	1719.06	27.91	1718.59	26.46	1714.69	26.93	1717.45	26.63	1724.88	26.26	1716.28	26.79	1719.25	23.85	1720.31			24.21	1718.15
07-Nov-05	27.54	1719.51	29.34	1717.16	26.79	1714.36	26.39	1717.99	26.23	1725.28	26.10	1716.44	25.51	1720.53	26.35	1717.81			23.54	1718.82
19-Dec-05	27.28	1719.77	29.83	1716.67	27.67	1713.48	25.74	1718.64	26.22	1725.29	25.56	1716.98	25.44	1720.60	27.29	1716.87			22.38	1719.98
09-Jan-06	27.21	1719.84	29.87	1716.63	27.86	1713.29	26.75	1717.63	25.95	1725.56	25.37	1717.17	24.62	1721.42	27.61	1716.55			22.61	1719.75

**KERR-McGEE CHEMICAL LLC  
HENDERSON, NEVADA FACILITY  
GROUNDWATER ELEVATIONS**

TOC-->	M-84 1741.03		M-85 1741.19		M-86 1744.23		M-87 1744.13		M-88 1739.36		M-89 1766.2		M-90 1738.95		M-91 1739.58		M-94 1695.07		M-95 1694.10		M-96 1693.50	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
15-Dec-98	24.66	1714.97	25.80	1715.39	26.59	1716.14	26.68	1715.59	21.63	1716.36	33.13	1732.12										
4-Feb-99	25.10	1714.53	25.27	1715.92	26.70	1716.03	26.32	1715.95	22.81	1715.18	32.95	1732.30					9.87	1685.20			8.29	1685.21
24-Mar-99	25.90	1713.73	26.22	1714.97	27.00	1715.73	27.13	1715.14	22.53	1715.46	33.00	1732.25					9.80	1685.27			8.29	1685.21
4-May-99	26.60	1713.03	27.37	1713.82	27.88	1714.85	27.49	1714.78	22.87	1715.12	32.84	1732.41					9.66	1685.41	7.92	1686.18	7.99	1685.51
9-Aug-99	27.23	1712.40	27.49	1713.70	28.78	1713.95	28.52	1713.75	23.78	1714.21	33.51	1731.74					9.90	1685.17			8.31	1685.19
8-Nov-99	27.53	1712.10	28.74	1712.45	29.92	1712.81	29.05	1713.22	24.54	1713.45	33.83	1731.42					10.40	1684.67	8.86	1685.24	8.73	1684.77
31-Jan-00	28.14	1711.49	29.42	1711.77	30.51	1712.22	29.65	1712.62	24.92	1713.07	33.43	1731.82					10.71	1684.36	8.60	1685.50	9.11	1684.39
01-May-00	27.93	1711.70	29.41	1711.78	30.80	1711.93	30.01	1712.26	25.25	1712.74	33.46	1731.79					10.18	1684.89	9.40	1684.70	9.20	1684.30
18-Sep-00	29.34	1710.29	31.14	1710.05	31.90	1710.83	30.75	1711.52	26.06	1711.93	33.93	1731.32										
13-Nov-00	29.42	1710.21	31.20	1709.99	32.03	1710.70	31.06	1711.21	26.34	1711.65	33.09	1732.16										
01-Feb-01	29.50	1710.13	31.62	1709.57	32.52	1710.21	31.40	1710.87	26.65	1711.34	33.71	1731.54					12.00	1683.07			10.00	1683.50
01-May-01	28.29	1711.34	31.03	1710.16	32.45	1710.28	31.44	1710.83	26.77	1711.22	33.47	1731.78					12.10	1682.97	10.36	1683.74	10.11	1683.39
01-Sep-01	29.18	1710.45	31.62	1709.57	33.00	1709.73	32.47	1709.80	27.98	1710.01	33.89	1731.36					12.53	1682.54			10.54	1682.96
01-Nov-01	27.94	1711.69	28.88	1712.31	30.25	1712.48	35.35	1706.92	30.34	1707.65	33.73	1731.52					12.64	1682.43			10.55	1682.95
01-Mar-02	25.28	1714.35	26.22	1714.97	30.00	1712.73	35.29	1706.98	30.49	1707.50	33.09	1732.16										
01-May-02	26.52	1713.11	27.21	1713.98	31.80	1710.93	36.00	1706.27	30.70	1707.29	32.83	1732.42					13.19	1681.88	11.48	1682.62	11.25	1682.25
09-Sep-02	21.54	1719.49	23.01	1718.18	28.25	1715.98	34.67	1709.46	30.50	1708.86	32.92	1733.28					13.46	1681.61			11.56	1681.94
09-Dec-02	22.12	1718.91	23.66	1717.53	29.96	1714.27	34.60	1709.53	30.54	1708.82	33.31	1732.89					13.68	1681.39			11.82	1681.68
20-Jan-03	22.24	1718.79	23.69	1717.50	28.18	1716.05	34.24	1709.89	31.23	1708.13	33.29	1732.91					13.68	1681.39			11.86	1681.64
05-May-03	24.41	1716.62	25.57	1715.62	28.39	1715.84	33.69	1710.44	30.41	1708.95	33.37	1732.83					13.03	1682.04	11.32	1682.78	11.03	1682.47
07-Jul-03	23.81	1717.22	24.50	1716.69	28.52	1715.71	34.03	1710.10	30.57	1708.79	33.46	1732.74					13.23	1681.84			11.24	1682.26
13-Aug-03	23.55	1717.48	23.95	1717.24	27.80	1716.43	33.75	1710.38	30.50	1708.86	33.50	1732.70					13.17	1681.90			11.36	1682.14
03-Nov-03	25.42	1715.61	27.33	1713.86	30.25	1713.98	34.95	1709.18	30.84	1708.52	33.77	1732.43					13.28	1681.79			11.90	1681.60
08-Dec-03	25.14	1715.89	26.63	1714.56	29.31	1714.92	34.94	1709.19	30.93	1708.43	33.84	1732.36					13.39	1681.68	11.77	1682.33	11.69	1681.81
12-Jan-04	25.29	1715.74	26.46	1714.73	28.57	1715.66	34.98	1709.15	30.97	1708.39	33.94	1732.26					13.32	1681.75	11.58	1682.52	11.54	1681.96
02-Feb-04	24.93	1716.10	26.62	1714.57	28.63	1715.60	34.09	1710.04	30.89	1708.47	33.99	1732.21					13.33	1681.74	11.77	1682.33	11.64	1681.86
01-Mar-04	24.12	1716.91	26.18	1715.01	29.45	1714.78	34.59	1709.54	30.68	1708.68	33.77	1732.43					13.06	1682.01	11.36	1682.74	11.13	1682.37
01-Apr-04	24.83	1716.20	26.51	1714.68	29.33	1714.90	34.79	1709.34	31.03	1708.33	32.15	1734.05					12.82	1682.25	11.13	1682.97	10.97	1682.53
03-May-04	24.25	1716.78	26.33	1714.86	28.73	1715.50	34.33	1709.80	30.89	1708.47	32.73	1733.47					12.71	1682.36	11.05	1683.05	10.89	1682.61
01-Jun-04	24.84	1716.19	26.77	1714.42	28.98	1715.25	34.42	1709.71	31.04	1708.32	33.21	1732.99					12.94	1682.13	11.31	1682.79	11.24	1682.26
01-Jul-04	23.67	1717.36	25.91	1715.28	27.81	1716.42	33.79	1710.34	30.93	1708.43	33.57	1732.63					13.06	1682.01	11.43	1682.67	11.39	1682.11
02-Aug-04	25.22	1715.81	26.63	1714.56	28.06	1716.17	34.28	1709.85	30.79	1708.57	33.57	1732.63					13.10	1681.97	11.43	1682.67	11.44	1682.06
08-Sep-04	25.88	1715.15	27.03	1714.16	28.33	1715.90	33.06	1711.07	30.68	1708.68	33.76	1732.44					13.14	1681.93	11.51	1682.59	11.46	1682.04
04-Oct-04	27.04	1713.99	26.96	1714.23	27.73	1716.50	33.23	1710.90	30.68	1708.68	33.33	1732.87					13.27	1681.80	11.65	1682.45		
01-Nov-04	25.94	1715.09	26.64	1714.55	27.32	1716.91	32.89	1711.24	30.66	1708.70	32.96	1733.24					13.31	1681.76	11.45	1682.65	11.62	1681.88
06-Dec-04	25.69	1715.34	26.48	1714.71	27.34	1716.89	32.71	1711.42	30.46	1708.90	32.77	1733.43					12.73	1682.34	11.17	1682.93	11.04	1682.46
03-Jan-05	24.44	1716.59	24.82	1716.37	26.16	1718.07	31.19	1712.94	29.64	1709.72	32.27	1733.93					12.11	1682.96	10.49	1683.61	10.24	1683.26
07-Feb-05	23.65	1717.38	24.43	1716.76	25.31	1718.92	31.01	1713.12	29.15	1710.21	32.27	1733.93					12.07	1683.00	10.35	1683.75	10.20	1683.30
07-Mar-05	24.84	1716.19	25.96	1715.23	27.42	1716.81	31.51	1712.62	29.06	1710.30	31.84	1734.36					11.54	1683.53	9.83	1684.27	9.61	1683.89
14-Apr-05	24.76	1716.27	25.95	1715.24	27.09	1717.14	32.36	1711.77	29.50	1709.86	31.85	1734.35					11.49	1683.58	9.83	1684.27	9.42	1684.08
02-May-05	25.41	1715.62	26.62	1714.57	27.75	1716.48	32.59	1711.54	29.58	1709.78	31.88	1734.32					11.51	1683.56	9.85	1684.25	9.82	1683.68
06-Jun-05	24.54	1716.49	25.74	1715.45	26.79	1717.44	32.01	1712.12	29.41	1709.95	31.40	1734.80					11.41	1683.66	9.67	1684.43	9.53	1683.97
11-Jul-05	24.21	1716.82	25.52	1715.67	26.68	1717.55	32.01	1712.12	29.39	1709.97	32.17	1734.03					11.53	1683.54	9.88	1684.22	9.92	1683.58
01-Aug-05	23.74	1717.29	25.01	1716.18	26.18	1718.05	31.58	1712.55	29.28	1710.08	32.32	1733.88					11.48	1683.59	9.83	1684.27	9.79	1683.71
01-Sep-05	23.71	1717.32	25.38	1715.81	26.14	1718.09	31.14	1712.99	28.94	1710.42	32.51	1733.69					11.53	1683.54	9.91	1684.19	9.96	1683.54
03-Oct-05	23.39	1717.64	25.38	1715.81	26.36	1717.87	31.06	1713.07	28.86	1710.50	32.62	1733.58					11.64	1683.43	10.04	1684.06	10.13	1683.37
07-Nov-05	27.56	1713.47	25.45	1715.74	31.67	1712.46	31.67	1712.46	28.94	1710.42	32.58	1733.62					11.40	1683.67	10.43	1683.67	9.75	1683.75
19-Dec-05	22.49	1718.54	25.46	1715.73	28.78	1715.45	32.56	1711.57	29.52	1709.84	32.61	1733.59					11.57	1683.50	9.97	1684.13	10.01	1683.49
09-Jan-06	21.99	1719.04	25.66	1715.53	29.02	1715.21			29.78	1709.58	32.59	1733.61					11.61	1683.46	9.98	1684.12	10.14	1683.36



**KERR-McGEE CHEMICAL LLC  
HENDERSON, NEVADA FACILITY  
GROUNDWATER ELEVATIONS**

TOC-->	I-A 1751.06		I-B 1752.67		I-C 1752.78		I-D 1752.66		I-E 1752.36		I-F 1749.7		I-G 1752.5		I-H 1753.21		
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	
15-Dec-98	40.70	1710.36	42.86	1707.83	41.10	1709.34	44.50	1706.04	35.63	1714.59	40.98	1706.60	39.00	1711.42	40.58	1710.49	
4-Feb-99	31.82	1719.24	43.21	1707.48	43.94	1706.50	44.64	1705.90	34.15	1716.07	41.32	1706.26	39.95	1710.47	31.00	1720.07	
24-Mar-99	35.00	1716.06	42.80	1707.89	43.90	1706.54	44.62	1705.92	36.00	1714.22	41.50	1706.08	39.80	1710.62	32.00	1719.07	
4-May-99	38.42	1712.64	42.10	1708.59	43.70	1706.74	43.87	1706.67	39.65	1710.57	40.56	1707.02	39.46	1710.96	32.67	1718.40	
9-Aug-99	33.14	1717.92	42.54	1708.15	43.37	1707.07	44.80	1705.74	35.50	1714.72	41.04	1706.54	40.94	1709.48	33.18	1717.89	
8-Nov-99	35.44	1715.62	43.54	1707.15	34.49	1715.95	44.32	1706.22	36.85	1713.37	44.00	1703.58	39.90	1710.52	39.90	1711.17	
31-Jan-00	34.60	1716.46	44.00	1706.69	35.32	1715.12	38.55	1711.99	36.62	1713.60	44.80	1702.78	33.58	1716.84	41.51	1709.56	
01-May-00	P&A		43.19	1707.50	43.62	1706.82	43.42	1707.12	34.50	1715.72	32.81	1714.77	39.73	1710.69	34.83	1716.24	
18-Sep-00					43.75	1706.69	41.47	1709.07	45.25	1704.97	43.92	1703.66	34.56	1715.86	41.26	1709.81	
13-Nov-00			44.20	1706.49	43.70	1706.74	41.36	1709.18	45.10	1705.12	41.80	1705.78			39.70	1711.37	
01-Feb-01			42.33	1708.36	43.85	1706.59	41.41	1709.13	45.32	1704.90	44.42	1703.16	34.80	1715.62	33.85	1717.22	
01-May-01			43.48	1707.21			41.95	1708.59	45.42	1704.80			35.36	1715.06	37.62	1713.45	
01-Sep-01			39.70	1710.99		44.15	1706.29	42.20	1708.34	46.30	1703.92	41.25	1706.33	40.20	1710.22	36.00	1715.07
01-Nov-01			40.68	1710.01		38.23	1712.21	41.50	1709.04	36.55	1713.67	29.50	1718.08	36.75	1713.67	38.20	1712.87
01-Mar-02			40.44	1710.25	44.00	1706.44	48.48	1702.06	43.00	1707.22	29.10	1718.48	34.10	1716.32	30.32	1720.75	
01-May-02			31.31	1719.38	42.00	1708.44	39.80	1710.74	43.20	1707.02	27.80	1719.78	39.10	1711.32	32.80	1718.27	
09-Sep-02			43.26	1709.41	44.45	1708.33	40.51	1712.15	41.20	1711.16	29.68	1720.02	29.78	1722.72	31.52	1721.69	
09-Dec-02			39.66	1713.01	36.29	1716.49	30.93	1721.73	36.37	1721.73	27.40	1722.30	29.74	1722.76	29.93	1723.28	
20-Jan-03			40.02	1712.65	36.78	1716.00	35.92	1716.74	38.92	1713.44	27.95	1721.75			29.47	1723.74	
05-May-03			42.75	1709.92	36.44	1716.34	40.45	1712.21	38.10	1714.26	27.60	1722.10	32.14	1720.36	38.53	1714.68	
07-Jul-03			30.67	1722.00	30.90	1721.88	31.35	1721.31	30.70	1721.66	27.18	1722.52	29.97	1722.53	29.66	1723.55	
13-Aug-03			33.80	1718.87	39.30	1713.48	39.40	1713.26	45.10	1707.26	28.00	1721.70	39.60	1712.90	32.70	1720.51	
03-Nov-03			39.38	1713.29	40.78	1712.00	40.47	1712.19	45.15	1707.21	28.27	1721.43	30.21	1722.29	31.80	1721.41	
08-Dec-03			41.09	1711.58	40.61	1712.17	40.54	1712.12	45.24	1707.12	28.61	1721.09	30.79	1721.71	33.84	1719.37	
12-Jan-04			43.62	1709.05	41.18	1711.60	40.53	1712.13	44.89	1707.47	29.04	1720.66	30.92	1721.58	35.92	1717.29	
02-Feb-04			43.63	1709.04	41.81	1710.97	41.60	1711.06	45.03	1707.33	29.29	1720.41	31.21	1721.29	32.34	1720.87	
01-Mar-04			32.60	1720.07	42.37	1710.41	39.94	1712.72	45.34	1707.02	29.66	1720.04	31.14	1721.36	31.93	1721.28	
01-Apr-04			32.41	1720.26	29.66	1723.12	31.70	1720.96	43.18	1709.18	28.37	1721.33	30.68	1721.82	34.48	1718.73	
03-May-04			32.95	1719.72	43.36	1709.42	31.16	1721.50	40.12	1712.24	27.89	1721.81	29.87	1722.63	32.72	1720.49	
01-Jun-04			33.78	1718.89	42.18	1710.60	31.02	1721.64	38.81	1713.55	27.70	1722.00	30.27	1722.23	34.58	1718.63	
01-Jul-04			37.36	1715.31	44.51	1708.27	43.19	1709.47	43.60	1708.76	29.29	1720.41	30.52	1721.98	41.87	1711.34	
02-Aug-04			34.18	1718.49	38.28	1714.50	37.77	1714.89	39.04	1713.32	28.08	1721.62	30.35	1722.15	41.99	1711.22	
08-Sep-04			31.61	1721.06	44.34	1708.44	40.11	1712.55	45.31	1707.05	29.06	1720.64	30.76	1721.74	39.86	1713.35	
04-Oct-04			43.59	1709.08	44.34	1708.44	41.39	1711.27	45.18	1707.18	29.32	1720.38	30.94	1721.56	36.47	1716.74	
01-Nov-04			43.27	1709.40	44.34	1708.44	40.52	1712.14	45.18	1707.18	28.33	1721.37	30.65	1721.85	37.31	1715.90	
06-Dec-04			43.24	1709.43	44.34	1708.44	41.61	1711.05	45.21	1707.15	27.73	1721.97	30.09	1722.41	36.66	1716.55	
03-Jan-05			42.93	1709.74	39.42	1713.36	30.76	1721.90	40.71	1711.65	26.99	1722.71	28.79	1723.71	37.22	1715.99	
07-Feb-05			43.13	1709.54	37.08	1715.70	30.27	1722.39	45.16	1707.20	26.64	1723.06	28.91	1723.59	36.41	1716.80	
07-Mar-05			33.09	1719.58	30.51	1722.27	28.74	1723.92	32.21	1720.15	25.66	1724.04	28.55	1723.95	33.86	1719.35	
14-Apr-05			31.91	1720.76	30.66	1722.12	27.94	1724.72	32.23	1720.13	25.14	1724.56	28.19	1724.31	39.89	1713.32	
02-May-05			31.39	1721.28	31.19	1721.59	27.93	1724.73	32.28	1720.08	24.83	1724.87	28.02	1724.48	36.96	1716.25	
06-Jun-05			30.81	1721.86	31.64	1721.14	27.78	1724.88	33.44	1718.92	24.51	1725.19	27.68	1724.82	32.35	1720.86	
11-Jul-05			30.39	1722.28	31.41	1721.37	27.91	1724.75	33.81	1718.55	24.73	1724.97	27.65	1724.85	41.09	1712.12	
01-Aug-05			30.13	1722.54	31.58	1721.20	28.44	1724.22	33.93	1718.43	23.17	1726.53	27.69	1724.81	33.74	1719.47	
06-Sep-05			31.33	1721.34	31.17	1721.61	28.75	1723.91	34.67	1717.69	24.68	1725.02	28.07	1724.43	40.39	1712.82	
03-Oct-05			31.08	1721.59	30.88	1721.90	28.89	1723.77	33.84	1718.52	23.99	1725.71	27.95	1724.55	41.68	1711.53	
07-Nov-05			31.46	1721.21	30.53	1722.25	27.87	1724.79	33.56	1718.80	24.74	1724.96	27.93	1724.57	40.30	1712.91	
19-Dec-05			30.39	1722.28	29.68	1723.10	27.48	1725.18	28.79	1723.57	23.74	1725.96	28.04	1724.46	36.03	1717.18	
09-Jan-06			30.61	1722.06	29.66	1723.12	27.31	1725.35	28.58	1723.78	24.38	1725.32	27.94	1724.56	30.96	1722.25	

**KERR-McGEE CHEMICAL LLC  
HENDERSON, NEVADA FACILITY  
GROUNDWATER ELEVATIONS**

TOC---->	I-I 1745.5		I-J 1750.07		I-K 1750.08		I-L 1751.7		I-M 1752.9		I-N 1751.45		I-O 1752.8		I-P 1751.66		I-Q 1753.11	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
15-Dec-98	24.77	1718.59	30.63	1717.32	22.76	1721.21	38.60	1710.89	41.67	1709.05	36.12	1713.14	33.77	1716.89	31.21	1720.45	40.14	1712.97
04-Feb-99	24.44	1718.92	32.51	1715.44	28.60	1715.37	37.50	1711.99	41.73	1708.99	37.10	1712.16	40.72	1709.94	29.62	1722.04	38.30	1714.81
24-Mar-99	23.50	1719.86	29.00	1718.95	28.90	1715.07	39.25	1710.24	41.70	1709.02	39.20	1710.06	30.20	1720.46	30.00	1721.66	38.00	1715.11
04-May-99	24.33	1719.03	29.25	1718.70	30.28	1713.69	39.31	1710.18	37.45	1713.27	37.10	1712.16	30.70	1719.96	29.83	1721.83	37.24	1715.87
09-Aug-99	25.34	1718.02	38.12	1709.83	30.07	1713.90	32.00	1717.49	41.90	1708.82	37.04	1712.22	31.80	1718.86	31.49	1720.17	36.58	1716.53
08-Nov-99	25.40	1717.96	39.04	1708.91	31.10	1712.87	38.77	1710.72	41.75	1708.97	34.00	1715.26	33.00	1717.66	36.47	1715.19	39.33	1713.78
31-Jan-00	26.30	1717.06	28.60	1719.35	25.86	1718.11	37.31	1712.18	41.74	1708.98	33.90	1715.36	32.60	1718.06	35.78	1715.88	39.15	1713.96
01-May-00	25.92	1717.44	40.70	1707.25	30.23	1713.74	39.68	1709.81	40.25	1710.47	34.24	1715.02	32.58	1718.08	31.83	1719.83		
18-Sep-00	30.70	1712.66	41.86	1706.09	29.41	1714.56	40.08	1709.41	41.71	1709.01	38.50	1710.76	35.14	1715.52			38.07	1715.04
13-Nov-00	35.10	1708.26			32.45	1711.52	39.75	1709.74	41.25	1709.47	38.28	1710.98	36.57	1714.09			37.35	1715.76
01-Feb-01	36.39	1706.97	41.68	1706.27	31.12	1712.85	39.87	1709.62	41.10	1709.62	35.09	1714.17	36.26	1714.40			36.21	1716.90
01-May-01	34.64	1708.72	31.60	1716.35	30.18	1713.79	39.25	1710.24	33.55	1717.17	41.60	1707.66	37.25	1713.41			36.53	1716.58
01-Sep-01	22.95	1720.41			33.10	1710.87	40.80	1708.69	42.52	1708.20	38.00	1711.26	31.00	1719.66			38.10	1715.01
01-Nov-01	22.00	1721.36	29.50	1718.45	26.20	1717.77	32.55	1716.94	39.20	1711.52	33.00	1716.26	32.60	1718.06			37.90	1715.21
01-Mar-02	21.00	1722.36	28.98	1718.97	27.39	1716.58	34.88	1714.61	37.24	1713.48	32.42	1716.84	30.98	1719.68			39.62	1713.49
01-May-02	21.20	1722.16	27.80	1720.15	25.90	1718.07	28.82	1720.67	36.48	1714.24	31.00	1718.26	31.31	1719.35	34.00	1717.66	38.15	1714.96
09-Sep-02	20.78	1724.72	28.00	1722.07	26.59	1723.49	31.44	1720.26	33.40	1719.50	29.57	1721.88	30.50	1722.30	30.38	1721.28	36.94	1716.17
09-Dec-02	20.45	1725.05	27.42	1722.65	24.58	1725.50	30.19	1721.51	34.09	1718.81	30.02	1721.43	30.41	1722.39	29.73	1722.93	37.13	1715.98
20-Jan-03	21.18	1724.32	27.66	1722.41	24.88	1725.20	30.50	1721.20			30.80	1720.65	30.82	1721.98	27.96	1723.70	35.39	1717.72
05-May-03	20.18	1725.32	27.53	1722.54	26.39	1723.69	32.47	1719.23	34.90	1718.00	30.75	1720.70	29.95	1722.85	28.89	1722.77	39.44	1713.67
07-Jul-03	20.47	1725.03	25.44	1724.63	21.82	1728.26	29.14	1722.56	31.18	1721.72	29.24	1722.21	28.88	1723.92	28.23	1723.43	29.84	1723.27
13-Aug-03	21.50	1724.00	28.00	1722.07	30.80	1719.28	35.80	1715.90	34.40	1718.50	30.30	1721.15	30.60	1722.20	29.50	1722.16	35.00	1718.11
03-Nov-03	22.45	1723.05	29.36	1720.71	33.70	1716.38	36.11	1715.59	36.47	1716.43	31.64	1719.81	31.66	1721.14	30.48	1721.18	38.13	1714.98
08-Dec-03	23.48	1722.02	31.20	1718.87	32.34	1717.74	36.04	1715.66	36.97	1715.93	31.99	1719.46	31.29	1721.51	33.93	1717.73	38.07	1715.04
12-Jan-04	23.63	1721.87	32.03	1718.04	32.99	1717.09	35.65	1716.05	37.71	1715.19	32.40	1719.05	36.88	1715.92	41.91	1709.75	39.01	1714.10
02-Feb-04	23.61	1721.89	32.27	1717.80	32.28	1717.80	35.24	1716.46	38.09	1714.81	32.68	1718.77	36.15	1716.65	36.44	1715.22	34.73	1718.38
01-Mar-04	23.71	1721.79	32.49	1717.58	32.28	1717.80	34.59	1717.11	38.02	1714.88	32.91	1718.54	35.76	1717.04	39.27	1712.39	34.07	1719.04
01-Apr-04	23.48	1722.02	32.06	1718.01	33.69	1716.39	32.09	1719.61	34.76	1718.14	31.55	1719.90	34.11	1718.69	39.14	1712.52	34.44	1718.67
03-May-04	22.63	1722.87	28.16	1721.91	35.67	1714.41	35.60	1716.10	34.90	1718.00	31.06	1720.39	32.61	1720.19	42.39	1709.27	34.31	1718.80
01-Jun-04	23.04	1722.46	30.84	1719.23	32.78	1717.30	32.91	1718.79	33.76	1719.14	30.91	1720.54	32.81	1719.99	34.43	1717.23	37.69	1715.42
01-Jul-04	23.83	1721.67	32.80	1717.27	31.76	1718.32	35.89	1715.81	35.21	1717.69	31.51	1719.94	36.53	1716.27	42.33	1709.33	31.77	1721.34
02-Aug-04	23.51	1721.99	33.73	1716.34	35.16	1714.92	34.62	1717.08	31.73	1721.17	31.41	1720.04	33.42	1719.38	40.43	1711.23	37.09	1716.02
08-Sep-04	23.52	1721.98	33.38	1716.69	35.74	1714.34	34.18	1717.52	37.10	1715.80	32.23	1719.22	38.68	1714.12	41.89	1709.77	40.51	1712.60
04-Oct-04	23.76	1721.74	34.87	1715.20	35.69	1714.39	34.29	1717.41	37.38	1715.52	32.49	1718.96	36.84	1715.96	42.23	1709.43	40.40	1712.71
01-Nov-04	23.88	1721.62	34.68	1715.39	31.62	1718.46	33.58	1718.12	35.31	1717.59	31.44	1720.01	37.60	1715.20	37.43	1714.23	39.23	1713.88
06-Dec-04	23.54	1721.96	32.84	1717.23	35.69	1714.39	35.45	1716.25	34.63	1718.27	30.81	1720.64	37.93	1714.87	42.24	1709.42	34.32	1718.79
03-Jan-05	22.47	1723.03	29.98	1720.09	29.11	1720.97	29.03	1722.67	33.44	1719.46	30.19	1721.26	31.21	1721.59	30.81	1720.85	32.21	1720.90
07-Feb-05	22.53	1722.97	29.68	1720.39	29.59	1720.49	27.62	1724.08	32.45	1720.45	29.71	1721.74	31.34	1721.46	31.18	1720.48	32.26	1720.85
07-Mar-05	22.12	1723.38	26.82	1723.25	24.54	1725.54	27.62	1724.08	30.72	1722.18	28.93	1722.52	31.48	1721.32	30.81	1720.85	29.48	1723.63
14-Apr-05	22.47	1723.03	29.36	1720.71	29.39	1720.69	26.89	1724.81	29.73	1723.17	28.30	1723.15	31.61	1721.19	30.91	1720.75	29.23	1723.88
02-May-05	22.51	1722.99	29.38	1720.69	25.97	1724.11	26.58	1725.12	29.54	1723.36	28.07	1723.38	31.58	1721.22	30.89	1720.77	27.15	1725.96
06-Jun-05	21.24	1724.26	29.14	1720.93	30.59	1719.49	27.24	1724.46	29.59	1723.31	27.76	1723.69	30.72	1722.08	29.91	1721.75	30.69	1722.42
11-Jul-05	22.13	1723.37	29.51	1720.56	36.13	1713.95	27.08	1724.62	30.09	1722.81	28.29	1723.16	31.06	1721.74	30.33	1721.33	29.53	1723.58
01-Aug-05	22.23	1723.27	29.56	1720.51	26.01	1724.07	27.68	1724.02	29.95	1722.95	27.93	1723.52	31.19	1721.61	30.31	1721.35	29.35	1723.76
06-Sep-05	21.95	1723.55	25.57	1724.50	26.54	1723.54	28.86	1722.84	30.38	1722.52	28.29	1723.16	31.08	1721.72	30.21	1721.45	29.02	1724.09
03-Oct-05	21.61	1723.89	27.43	1722.64	28.83	1721.25	28.57	1723.13	29.84	1723.06	27.96	1723.49	30.89	1721.91	30.11	1721.55	27.08	1726.03
07-Nov-05	21.71	1723.79	27.00	1723.07	26.54	1723.54	28.86	1722.84	29.69	1723.21	27.75	1723.70	30.80	1722.00	30.01	1721.65	34.80	1718.31
19-Dec-05	22.15	1723.35	27.26	1722.81	25.81	1724.27	28.08	1723.62	29.31	1723.59	27.43	1724.02	30.91	1721.89	30.09	1721.57	28.99	1724.12
09-Jan-06	22.11	1723.39	27.29	1722.78	27.21	1722.87	28.33	1723.37	29.08	1723.82	27.17	1724.28	30.78	1722.02	29.87	1721.79	29.78	1723.33

**KERR-McGEE CHEMICAL LLC  
HENDERSON, NEVADA FACILITY  
GROUNDWATER ELEVATIONS**

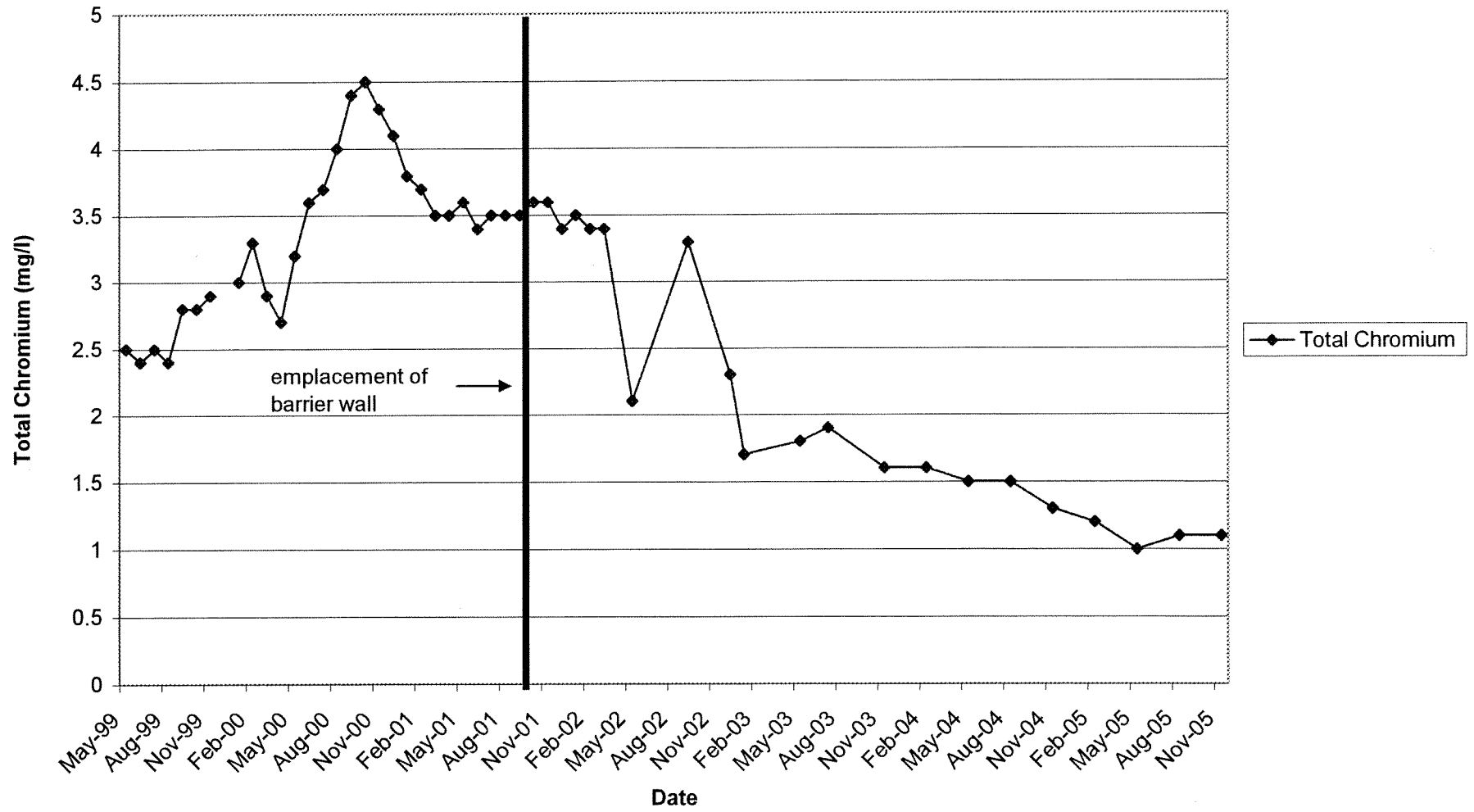
TOC-->	I-R 1751.35		I-S 1750.03		I-T 1751.65		I-U 1752.16		I-V 1752.13		I-Z 1743.78		I-AR 1758.35		I- 1700		I- 1700	
	DTW	FLEV	DTW	FLEV	DTW	FLEV	DTW	FLEV	DTW	FLEV	DTW	FLEV	DTW	FLEV	DTW	FLEV	DTW	FLEV
04-May-99	31.22	1720.13	43.12	1706.91	40.00	1711.65	39.20	1712.96	40.19	1711.94								
09-Aug-99	32.26	1719.09	35.95	1714.08	30.37	1721.28	31.16	1721.00	38.33	1713.80								
08-Nov-99	33.35	1718.00	39.91	1710.12	42.00	1709.65	41.80	1710.36	40.50	1711.63								
31-Jan-00	35.37	1715.98	41.63	1708.40	27.80	1723.85	38.42	1713.74	31.30	1720.83								
01-May-00	34.74	1716.61	38.78	1711.25	41.58	1710.07	37.30	1714.86	39.48	1712.65								
18-Sep-00	37.73	1713.62	42.94	1707.09	40.89	1710.76	40.16	1712.00	40.53	1711.60			43.95	1714.40				
13-Nov-00	36.80	1714.55	41.90	1708.13	40.83	1710.82	40.30	1711.86	42.39	1709.74			43.03	1715.32				
01-Feb-01	36.99	1714.36	42.77	1707.26	42.82	1708.83	43.80	1708.36	32.90	1719.23			43.90	1714.45				
01-May-01	36.18	1715.17	29.50	1720.53	41.82	1709.83	43.10	1709.06	36.60	1715.53								
01-Sep-01	38.10	1713.25	43.80	1706.23	40.35	1711.30			43.40	1708.73								
01-Nov-01	33.70	1717.65	36.75	1713.28	41.90	1709.75	36.00	1716.16	33.00	1719.13			33.78	1724.57				
01-Mar-02	35.38	1715.97	27.32	1722.71	41.40	1710.25	35.78	1716.38	27.27	1724.86			43.49	1714.86				
01-May-02	28.50	1722.85	28.50	1721.53	38.28	1713.37	32.70	1719.46	29.98	1722.15			43.90	1714.45				
09-Sep-02	29.75	1721.60	43.54	1706.49	39.38	1712.27	36.14	1716.02	29.46	1722.67			40.00	1718.35				
09-Dec-02	29.95	1721.40	43.48	1706.55	40.99	1710.66	33.44	1718.72	28.51	1723.62			40.15	1718.20				
20-Jan-03	32.68	1718.67	43.25	1706.78	38.51	1713.14	34.55	1717.61	28.72	1723.41			40.91	1717.44				
05-May-03	34.48	1716.87	42.75	1707.28	39.80	1711.85	42.33	1709.83	28.10	1724.03			41.98	1716.37				
07-Jul-03	28.97	1722.38	27.78	1722.25	29.25	1722.40	29.31	1722.85	28.08	1724.05			43.82	1714.53				
13-Aug-03	36.60	1714.75	42.10	1707.93	41.80	1709.85	39.80	1712.36	28.90	1723.23			42.00	1716.35				
03-Nov-03	40.19	1711.16	43.31	1706.72	43.72	1707.93	43.36	1708.80	30.10	1722.03	26.27	1717.51	43.90	1714.45				
08-Dec-03	37.02	1714.33	43.32	1706.71	34.34	1717.31	42.71	1709.45	31.35	1720.78	30.10	1713.68	43.93	1714.42				
12-Jan-04	37.08	1714.27	43.34	1706.69	42.92	1708.73	42.74	1709.42	31.56	1720.57	29.97	1713.81	43.95	1714.40				
02-Feb-04	37.20	1714.15	43.34	1706.69	42.93	1708.72	30.85	1721.31	31.45	1720.68	29.86	1713.92	43.93	1714.42				
01-Mar-04	34.17	1717.18	36.79	1713.24	41.48	1710.17	42.51	1709.65	31.59	1720.54	29.71	1714.07	43.98	1714.37				
01-Apr-04	33.66	1717.69	28.16	1721.87	40.68	1710.97	43.43	1708.73	31.41	1720.72	28.28	1715.50	43.93	1714.42				
03-May-04	34.07	1717.28	28.34	1721.69	41.57	1710.08	30.18	1721.98	31.31	1720.82	29.95	1713.83	43.84	1714.51				
01-Jun-04	34.37	1716.98	29.24	1720.79	40.73	1710.92	29.94	1722.22	30.88	1721.25	22.16	1721.62	43.89	1714.46				
01-Jul-04	38.69	1712.66	43.26	1706.77	43.47	1708.18	43.51	1708.65	31.71	1720.42	32.58	1711.20	44.01	1714.34				
02-Aug-04	35.64	1715.71	40.47	1709.56	31.11	1720.54	42.91	1709.25	31.41	1720.72	32.74	1711.04	43.44	1714.91				
08-Sep-04	37.01	1714.34	43.09	1706.94	37.71	1713.94	40.87	1711.29	31.51	1720.62	32.79	1710.99	40.04	1718.31				
04-Oct-04	37.01	1714.34	43.15	1706.88	35.57	1716.08	37.87	1714.29	31.68	1720.45	32.87	1710.91	42.97	1715.38				
01-Nov-04	37.08	1714.27	43.13	1706.90	39.56	1712.09	38.22	1713.94	31.72	1720.41	33.38	1710.40	42.97	1715.38				
06-Dec-04	37.03	1714.32	43.11	1706.92	32.92	1718.73	35.01	1717.15	31.38	1720.75	34.02	1709.76	41.68	1716.67				
03-Jan-05	36.47	1714.88	27.81	1722.22	38.56	1713.09	31.08	1721.08	29.91	1722.22	25.54	1718.24	29.91	1728.44				
07-Feb-05	35.11	1716.24	27.21	1722.82	41.05	1710.60	36.62	1715.54	30.18	1721.95	32.93	1710.85	27.81	1730.54				
07-Mar-05	30.51	1720.84	26.12	1723.91	32.56	1719.09	32.37	1719.79	29.76	1722.37	32.76	1711.02	41.24	1717.11				
14-Apr-05	29.69	1721.66	25.46	1724.57	36.37	1715.28	33.01	1719.15	29.93	1722.20	31.56	1712.22	28.81	1729.54				
02-May-05	29.53	1721.82	24.74	1725.29	35.94	1715.71	32.64	1719.52	29.91	1722.22	32.94	1710.84	27.87	1730.48				
06-Jun-05	32.29	1719.06	25.71	1724.32	30.76	1720.89	31.31	1720.85	29.02	1723.11	25.86	1717.92	27.41	1730.94				
11-Jul-05	32.05	1719.30	25.61	1724.42	32.02	1719.63	29.86	1722.30	29.63	1722.50	32.84	1710.94	27.34	1731.01				
01-Aug-05	31.81	1719.54	24.42	1725.61	31.92	1719.73	31.18	1720.98	29.68	1722.45	34.01	1709.77	27.62	1730.73				
06-Sep-05	32.83	1718.52	26.47	1723.56	42.63	1709.02	37.61	1714.55	29.26	1722.87	26.51	1717.27	26.74	1731.61				
03-Oct-05	32.63	1718.72	26.19	1723.84	42.64	1709.01	42.67	1709.49	29.18	1722.95	25.85	1717.93	28.39	1729.96				
07-Nov-05	32.95	1718.40	26.62	1723.41	30.75	1720.90	33.22	1718.94	29.02	1723.11	25.94	1717.84	32.80	1725.55				
19-Dec-05	32.23	1719.12	25.31	1724.72	42.36	1709.29	39.77	1712.39	29.43	1722.70	25.87	1717.91	31.57	1726.78				
09-Jan-06	32.37	1718.98	26.03	1724.00	42.57	1709.08	42.59	1709.57	29.37	1722.76	25.86	1717.92	28.39	1729.96				

## **APPENDIX B**

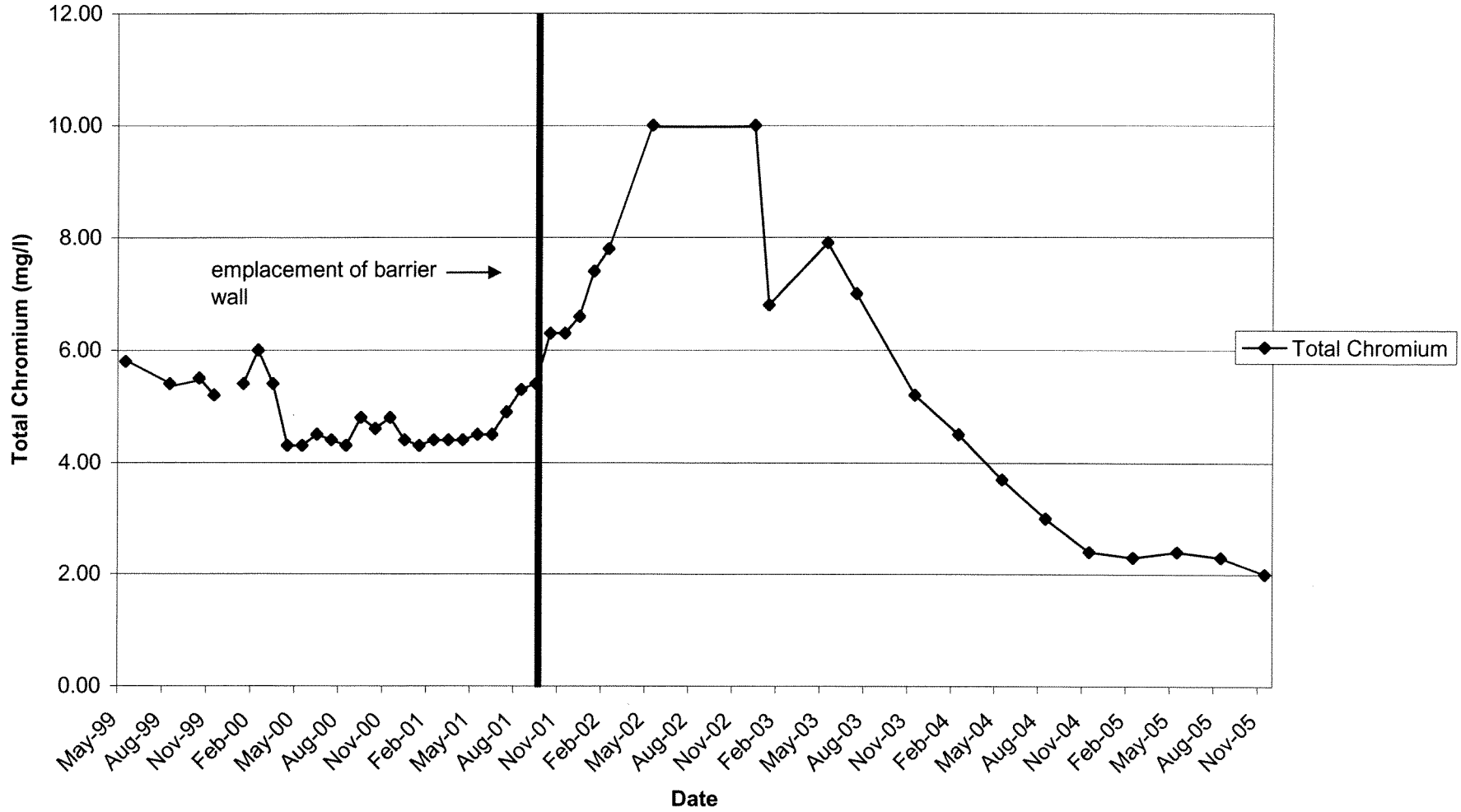
### **SELECTED MONITOR WELL TIME VS. TOTAL CHROMIUM CONCENTRATION GRAPHS**



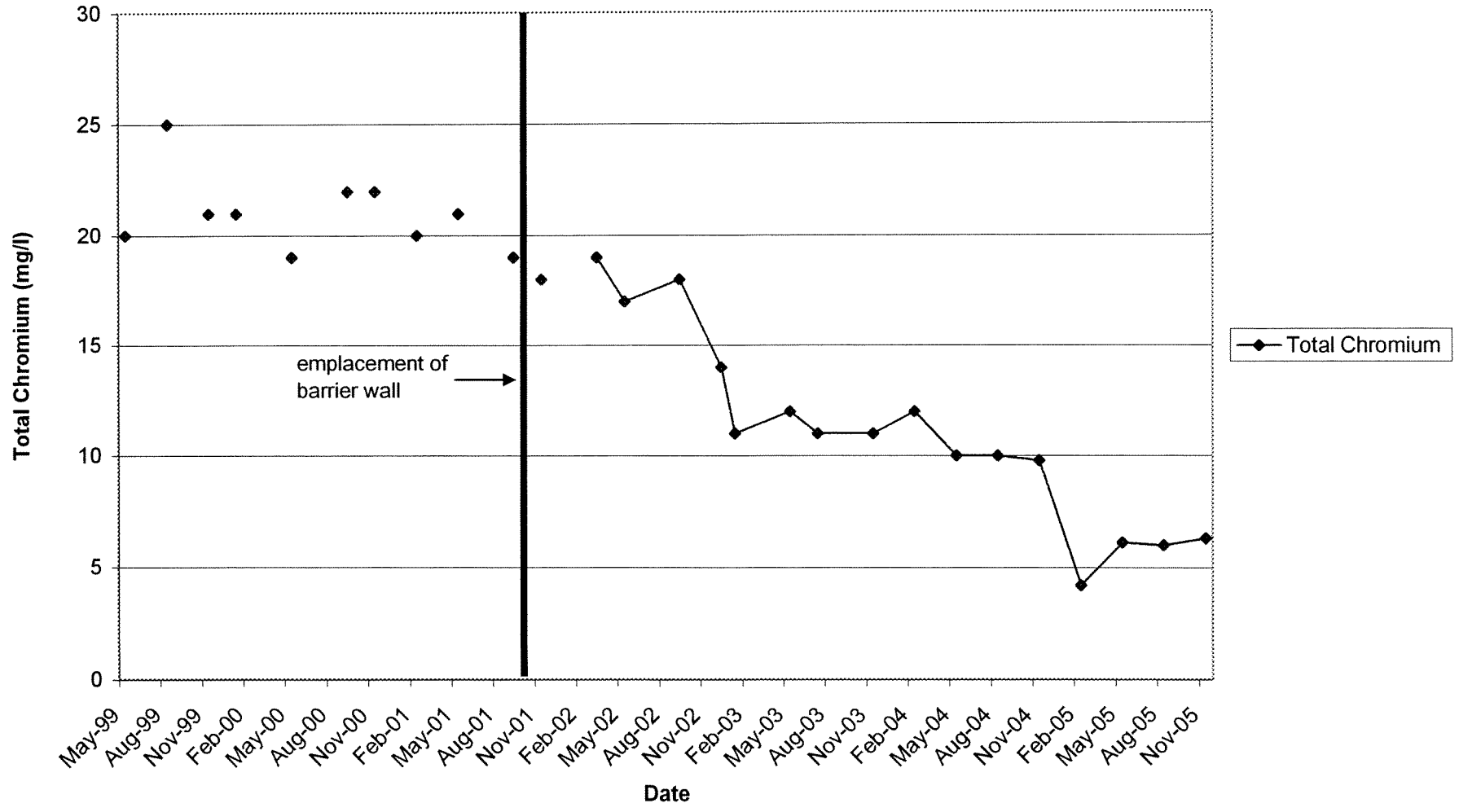
Well M-23  
Henderson Facility  
Total Chromium



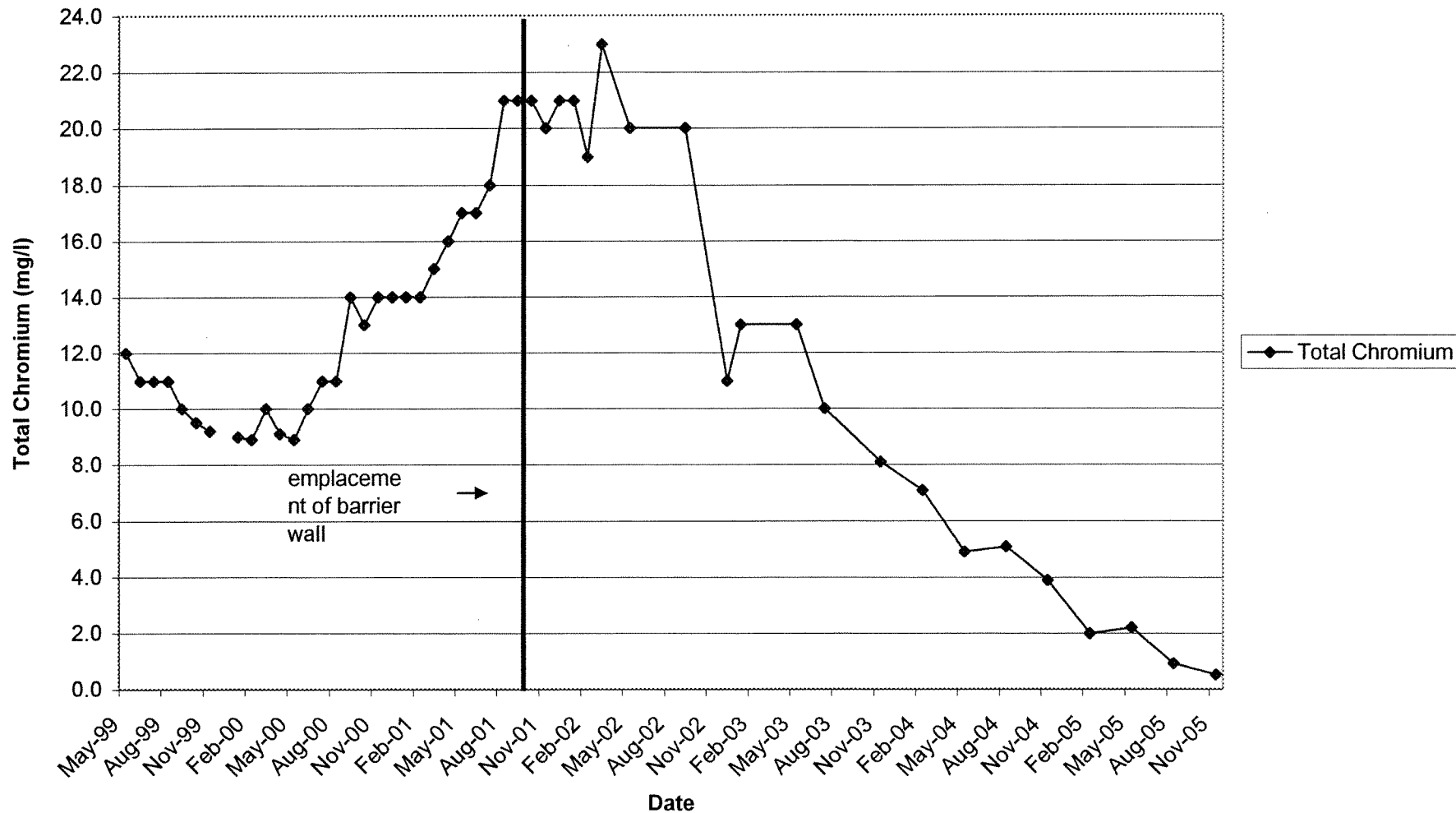
**Well M-48  
Henderson Facility  
Total Chromium**



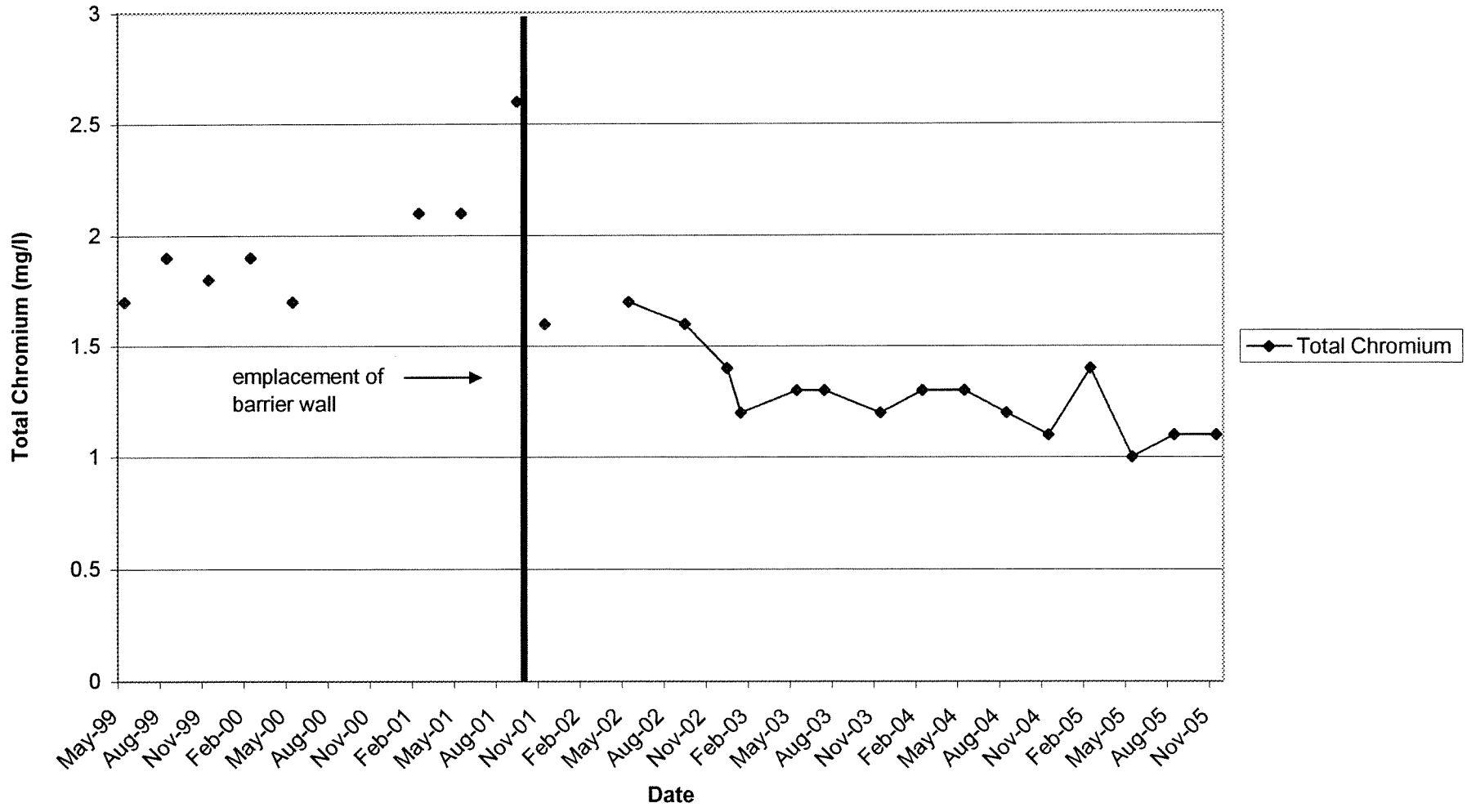
Well M-72  
Henderson Facility  
Total Chromium



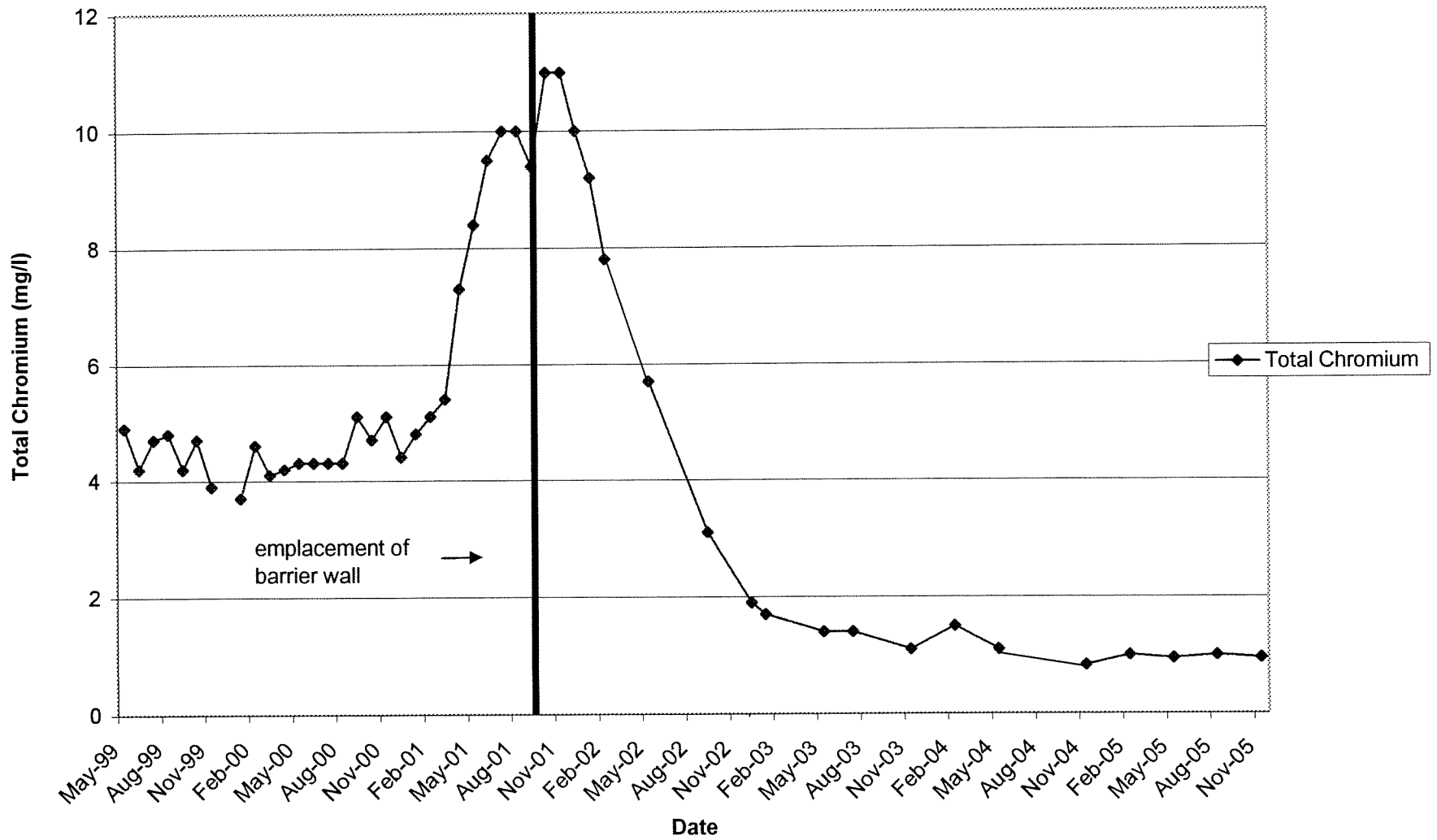
Well M-87  
Henderson Facility  
Total Chromium



Well M-94  
Henderson Facility  
Total Chromium



Well M-100  
Henderson Facility  
Total Chromium



**APPENDIX C**

**SNWA LAS VEGAS WASH SURFACE WATER  
ANALYTICAL DATA - 2005**

Las Vegas Wash Surface Water  
Analytical Data from SNWA 2005

Sampling Location	ID	Date	CLO4 ug/l	ID	Date	Chromium (ug/l)
Upstream City of Las Vegas	LW10.75	1/26/2005	15	LW10.75	1/26/2005	ND
		2/28/2005	11		2/28/2005	2.6
		3/30/2005	12		3/30/2005	2.8
		4/19/2005	12		4/19/2005	1
		5/25/2005	8.1		5/25/2005	3.9
		6/22/2005	9.7		6/22/2005	ND
		7/27/2005	9.6		7/27/2005	3.5
					8/24/2005	1.6
					9/21/2005	5.7
Upstream Pabco Weir	LW6.05	1/26/2005	32	LW6.05	1/26/2005	ND
		2/28/2005	35		2/28/2005	1.1
		3/30/2005	27		3/30/2005	1.4
		4/19/2005	42		4/19/2005	ND
		5/25/2005	42		5/25/2005	1.6
		6/22/2005	22		6/22/2005	ND
		7/27/2005	24		7/27/2005	2.5
					8/24/2005	ND
					9/21/2005	3.5
Downstream Pabco Weir	LW5.9	1/26/2005	72	LW5.9	1/26/2005	ND
		2/28/2005	200		2/28/2005	1.2
		3/30/2005	140		3/30/2005	1.8
		4/19/2005	180		4/19/2005	ND
		5/25/2005	160		5/25/2005	1.9
		6/22/2005	140		6/22/2005	ND
		7/27/2005	130		7/27/2005	2.7
					8/24/2005	ND
					9/21/2005	3.7
Upstream Historic Lateral Weir	LW5.5	1/26/2005	64	LW5.5	1/26/2005	ND
		2/28/2005	65		2/28/2005	1.2
		3/30/2005	76		3/30/2005	1.9
		4/19/2005	100		4/19/2005	ND
		5/25/2005	88		5/25/2005	1.8
		6/22/2005	71		6/22/2005	ND
		7/27/2005	70		7/27/2005	4.4
					8/24/2005	ND
					9/21/2005	3.6



Las Vegas Wash Surface Water  
Analytical Data from SNWA 2005

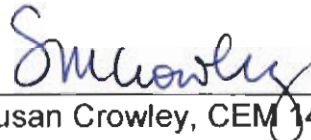
Sampling Location	ID	Date	CLO4 ug/l	ID	Date	Chromium (ug/l)
Downstream Historic Lateral Weir	LW5.3	1/26/2005	88	LW5.3	1/26/2005	ND
		2/28/2005	88		2/28/2005	1.2
		3/30/2005	96		3/30/2005	1.7
		4/19/2005	130		4/19/2005	ND
		5/25/2005	96		5/25/2005	1.9
		6/22/2005	88		6/22/2005	ND
		7/27/2005	80		7/27/2005	4.4
					8/24/2005	ND
					9/21/2005	3.6
Upstream Demonstration Weir	LW3.85	1/26/2005	150	LW3.85	1/26/2005	ND
		2/28/2005	150		2/28/2005	1.4
		3/30/2005	14		3/30/2005	1.9
		4/19/2005	160		4/19/2005	ND
		5/25/2005	150		5/25/2005	2
		6/22/2005	140		6/22/2005	1.1
		7/27/2005	110		7/27/2005	4.4
					8/24/2005	ND
					9/21/2005	3.6
Downstream Demonstration Weir	LW3.75	1/26/2005	180	LW3.75	1/26/2005	ND
		2/28/2005	180		2/28/2005	1.2
		3/30/2005	17		3/30/2005	2.2
		4/19/2005	179		4/19/2005	ND
		5/25/2005	160		5/25/2005	2.2
		6/22/2005	150		6/22/2005	1.1
		7/27/2005	130		7/27/2005	4.6
					8/24/2005	ND
					9/21/2005	3.7
Downstream Lake Las Vegas	LW0.8	1/26/2005	140	LW0.8	1/26/2005	ND
		2/28/2005	140		2/28/2005	2.3
		3/30/2005	130		3/30/2005	2.1
		4/19/2005	150		4/19/2005	
		5/25/2005	150		5/25/2005	2.3
		6/22/2005	110		6/22/2005	1
		7/27/2005	100		7/27/2005	4.4
					8/24/2005	ND
					9/21/2005	3.3

## APPENDIX D

### GROUNDWATER ANALYTICAL DATA AND FIELD SHEETS (ON CD)

#### Laboratory Data Certification

I hereby certify that all analytic data was generated  
by a laboratory certified by the NDEP for each  
constituent and media presented herein.

 1-26-06

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Susan Crowley, CEM 1428 exp 3/8/07  
Staff Environmental Specialist  
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