

August 22, 2002

Ms. Karen Baker, CEG, CHG
Chief, Corrective Action Branch
Department of Toxic Substances Control, Region 4
5796 Corporate Avenue
Cypress, California 90630

**Subject: Groundwater and Surface Water Sampling Results - Second Quarter 2002
Corrective Action Consent Agreement for Bat Cave Wash Area
PG&E Topock Compressor Station, Needles, California
EPA ID No. CAT080011729**

Dear Ms. Baker:

This letter transmits the results of the Second Quarter (June 2002) groundwater and surface water monitoring event for the Topock project. During the June 2002 monitoring event, 26 wells and six locations along the Colorado River were sampled for the site constituents of concern (total and hexavalent chromium, copper, nickel, zinc, pH, and electrical conductivity). The results of the groundwater and surface water sampling are presented in Tables 1 and 2, respectively. The sampling locations are shown on the attached Figure 1.

We completed our review of the laboratory data for the groundwater and surface water samples collected June 11-13, 2002. The findings and results of the data review are as follows:

- All samples were analyzed according to the specified methods, preparation, and holding time requirements. Excluding the June 11 chromium analyses (noted below), no analytical issues or deficiencies were identified and the sampling data are considered usable for monitoring water quality conditions at the site.
- In all six surface water samples and three of the shoreline monitoring well groundwater samples collected on June 11, 2002, the laboratory reported what appeared to be false positive concentrations of hexavalent chromium [Cr(VI)] above the project reporting limit of 0.01 mg/L. Total chromium [Cr(T)] was not detected above the project reporting limit of 0.02 mg/L in these surface water and groundwater samples.

PG&E elected to resample the six surface water locations and five shoreline monitoring wells to confirm the apparent false-positive concentrations. During prior sampling events, Cr(VI) has not been detected in any surface water samples and only in isolated instances in the shoreline wells. On July 31, 2002, Richard McCurdy of PG&E notified Fred Zanolria of DTSC of the June 2002 sampling results and PG&E's plan for resampling.

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On August 6, 2002, resampling was conducted at the five shoreline monitoring wells (MW-22, MW-27, MW-28, MW-29, MW-30) and the six established surface water stations. In addition, samples were collected at two new upstream locations (stations NR-1 and NR-2, Figure 1). The surface water and groundwater samples were collected using identical sampling procedures as the June event and submitted to Truesdail Laboratories for Cr(T) and Cr(VI) analyses. Split samples were also collected at all of the wells and locations sampled and submitted to a second analytical laboratory (Zymax Laboratories).

The results of the August 2002 resampling of the shoreline monitoring wells and surface water locations are presented in Tables 1 and 2, respectively. Cr(T) and Cr(VI) were not detected at or above the project reporting limits in any of the August samples analyzed by the two laboratories. The sampling data and laboratory results for the August resampling were reviewed and no analytical issues or deficiencies were identified.

Based on the results and data review of the June 2002 and the August resampling events, the Cr(VI) concentrations reported for the surface water and MW-22, MW-27, MW-28 groundwater samples collected June 11 are believed to be false-positive detections and not representative of surface water/groundwater conditions at the sample locations. All other sampling data from the June 2002 event are usable for monitoring water quality conditions at the site. The next quarterly monitoring event for the Topock site is scheduled for mid-September 2002.

If you have any questions regarding this report and the monitoring program, please call me at (925) 974-4081.

Sincerely,

Linda Gonsalves
Project Manager

Attachments: Table 1, Table 2, Figure 1

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cc: Luke Peters
Department of Toxic Substances Control
5796 Corporate Avenue
Cypress, CA 90630

Alfredo Zanoia
Department of Toxic Substances Control
5796 Corporate Avenue
Cypress, CA 90630

Dr. Charles Miller
Human and Ecological Risk Division, Mail Stop HQ-26
Department of Toxic Substances Control
301 Capital Mall, 3rd Floor
Sacramento, CA 95814

Richard Sherwood
Office of Legal Counsel
Department of Toxic Substances Control
P.O. Box 806
Sacramento, CA 95812

Neal Krull
Colorado River Basin
Regional Water Quality Control Board
73-720 Fred Waring Drive, Suite 100
Palm Desert, CA 92260

Anthony Velasco
U.S. Fish and Wildlife Service
2321 Royal Palm Road, Suite 103
Phoenix, AZ 85021-4951

Gregory Wolf
Havasu National Wildlife Refuge
U.S. Fish and Wildlife Service
P.O. Box 3009
Needles, CA 92363

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Henri Kaplan
U.S. Department of Interior
Bureau of Reclamation
P.O. Box 61470
Boulder City, NV 89006-1470

Timothy Spillane
U.S. Department of the Interior
Bureau of Reclamation - Yuma Area Office
7301 Calle Agua Salada
Yuma, AZ 85366

Paul Meyer
U.S. Department of Interior
Bureau of Land Management
Denver Federal Center, Bldg. 50
P.O. Box 25047 (D-5100)
Denver, CO 80225-0007

Byard Kershaw
U.S. Department of Interior
Bureau of Land Management
222 N. Central Avenue
Phoenix, AZ 85014

Donald Ellsworth
U.S. Department of the Interior
Lake Havasu Field Office
2610 Sweetwater Ave.
Lake Havasu City, AZ 86406

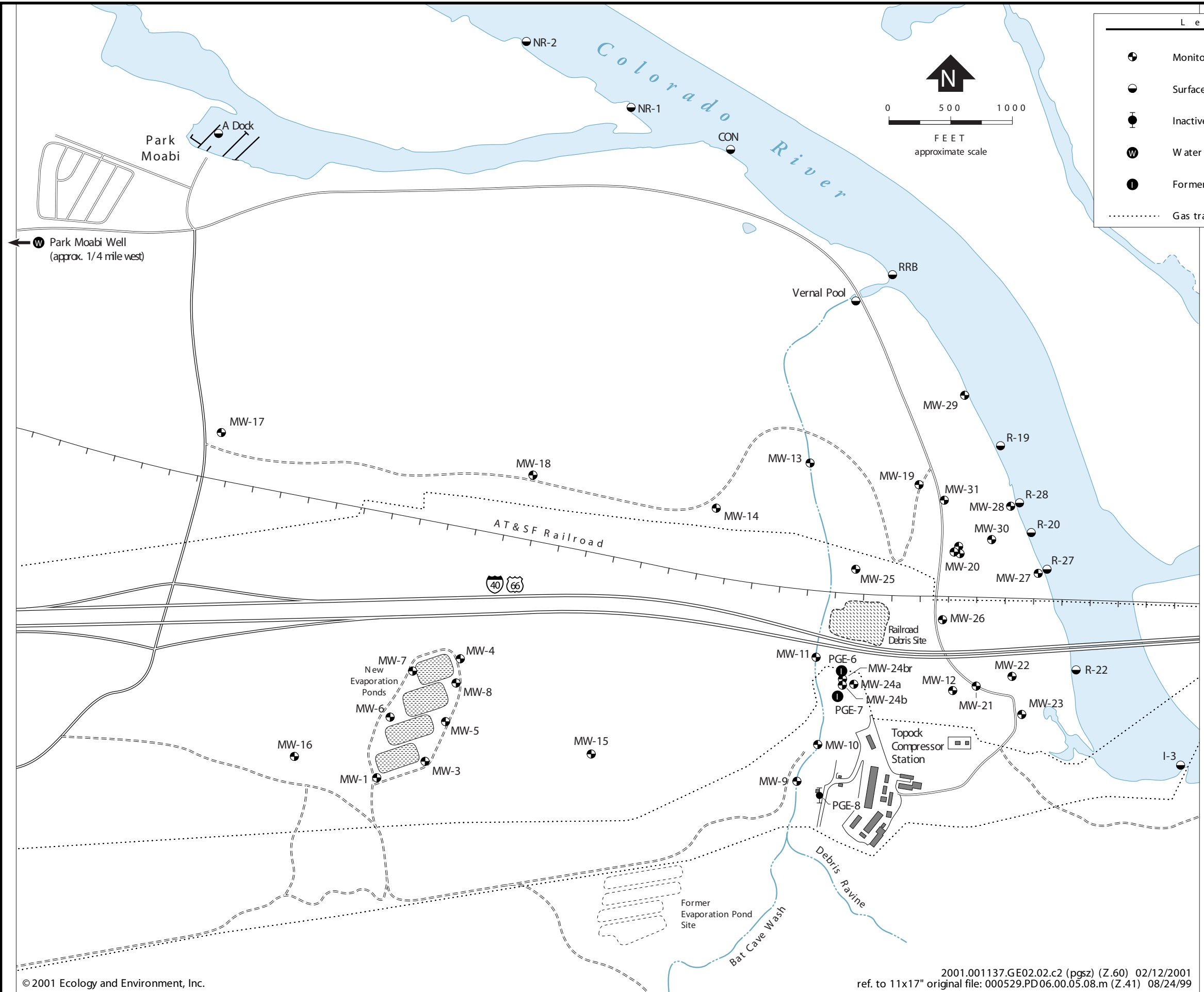


Figure 1
Groundwater and Surface Water
Monitoring Program
 Bat Cave Wash Project
 PG&E Topock Compressor Station

Station ID	Monitored Zone	Well Depth (feet bgs)	Sampling Frequency
MW-9	Upper UA	87	Q
MW-10	Upper UA	94	Q
MW-11	Upper UA	83	Q
MW-12	Upper UA	48	Q
MW-13	Upper UA	49	Q
MW-14	Upper UA	131	Q
MW-15	Upper UA	201	Q
MW-16	Upper UA	218	Q
MW-17	Upper UA	150	Annual (Q3)
MW-18	Upper UA	105	Q
MW-19	Upper UA	66	Q
MW-20-70	Upper UA	70	Q
MW-20-100	Middle UA	99	Q
MW-20-130	Lower UA	131	Q
MW-21	Upper UA	60	Q
MW-22	Riverbank	11	Q
MW-23	Fanglomerate	80	Q
MW-24A	Upper UA	124	Q
MW-24B	Lower UA	214	Q
MW-24BR	Bedrock	438	Q
MW-25	Upper UA	104	Q
MW-26	Upper UA	71	Q
MW-27	Dredge / shoreline	17	Q
MW-28	Dredge / shoreline	23	Q
MW-29	Dredge / shoreline	39	Q
MW-30	Dredge / dunes	32	Q
MW-31	Upper UA	62	Q
PGE-6	UA	163	every 2 years (Q4)
PGE-7	Fangl / Bedrock	338	every 2 years (Q4)
PGE-8	Bedrock	575	every 2 years (Q4)
Park Moabi	UA	---	Annual (Q1)
River Stations			
A-Dock	slough		water level only
CON	upstream		Q
Vernal Pool / RRB	Bat Cave Wash		Q
R-28	dune area		Q
R-27	dune area		Q
R-22	dune area		Q
I-3	downstream		Q

Abbreviations UA = Unconsolidated Alluvial aquifer
 Q = Quarterly monitoring

Table 1
Results of June 2002 Groundwater Sampling and August 2002 Resampling
Topock Compressor Station

Well Number	Sample Date	Remarks	Hexavalent Chromium mg/L	Total Chromium mg/L	Copper mg/L	Nickel mg/L	Zinc mg/L	Electrical Conductivity mS/cm	pH
MW-9	12-Jun-02		0.347	0.345	ND <0.01	0.0076	0.0626	3,100	7.1
MW-10	12-Jun-02		2.00	1.75	ND <0.01	ND <0.005	0.0408	3,360	7.4
MW-11	12-Jun-02		0.459	0.371	ND <0.01	0.0062	0.0322	2,450	7.4
MW-12	13-Jun-02		0.94	1.01	ND <0.01	ND <0.005	0.0326	3,850	8.4
	13-Jun-02	duplicate sample	1.05	1.24	ND <0.01	ND <0.005	0.0330	3,880	8.4
MW-13	12-Jun-02		0.017	ND <0.02	ND <0.01	0.0056	0.0355	2,120	7.5
MW-14	12-Jun-02		0.0279	0.0292	ND <0.01	0.0165	0.143	1,579	7.6
MW-15		not sampled (note 3)							
MW-16	12-Jun-02		0.0137	ND <0.02	ND <0.01	0.0103	0.056	1,124	7.8
MW-18	12-Jun-02		0.0301	0.0257	ND <0.01	ND <0.005	0.0444	1,448	7.5
MW-19	12-Jun-02		0.837	0.734	ND <0.01	ND <0.005	0.0306 J	2,400	7.5
	12-Jun-02	duplicate sample	0.826	0.829	ND <0.01	0.0062	0.106 J	2,430	7.6
MW-20-70	13-Jun-02		12.2	11.7	ND <0.01	0.0069	0.0251	3,810	7.7
MW-20-100	13-Jun-02		2.92	2.94	ND <0.01	0.0054	0.0419	5,790	7.8
MW-20-130	13-Jun-02		6.74	7.37	ND <0.01	0.0127	0.0309 J	1,640	7.8
	13-Jun-02	duplicate sample	6.77	7.15	ND <0.01	0.0106	0.0496 J	1,634	7.8
MW-21	13-Jun-02		0.013	ND <0.02	ND <0.01	0.0142	0.0889	13,160	7.2
MW-22	11-Jun-02		0.0487	ND <0.02	ND <0.01	0.027	0.036	23,300	7.0
	06-Aug-02	resample - TLI	ND <0.01	ND <0.02	--	--	--	--	--
	06-Aug-02	resample split - Zymax	ND <0.01	ND <0.02	--	--	--	--	--
MW-23	13-Jun-02		ND <0.01	ND <0.02	0.0475	0.0189	0.255	17,180	6.8
MW-24A	13-Jun-02		2.87	3.02	ND <0.01	ND <0.005	0.0411	3,650	7.9
MW-24B	13-Jun-02		4.83	5.12	ND <0.01	0.0071	0.0395	12,490	8.1

Table 1
Results of June 2002 Groundwater Sampling and August 2002 Resampling
Topock Compressor Station

Well Number	Sample Date	Remarks	Hexavalent Chromium mg/L	Total Chromium mg/L	Copper mg/L	Nickel mg/L	Zinc mg/L	Electrical Conductivity mS/cm	pH
MW-24BR	13-Jun-02		ND <0.01	ND <0.02	ND <0.01	ND <0.005	0.0528	13,830	8.3
MW-25	12-Jun-02		2.87	3.05	ND <0.01	0.0068	0.0639	1,889	7.5
MW-26	13-Jun-02		3.62	3.68	ND <0.01	0.0055	0.0352	3,540	7.6
MW-27	11-Jun-02		0.0214	ND <0.02	ND <0.01	0.0067	0.0405	1,020	7.7
	06-Aug-02	resample - TLI	ND <0.01	ND <0.02	--	--	--	--	--
	06-Aug-02	resample split - Zymax	ND <0.01	ND <0.02	--	--	--	--	--
MW-28	11-Jun-02		0.0159	ND <0.02	ND <0.01	0.0075	0.057	1,380	7.6
	06-Aug-02	resample - TLI	ND <0.01	ND <0.02	--	--	--	--	--
	06-Aug-02	resample split - Zymax	ND <0.01	ND <0.02	--	--	--	--	--
MW-29	12-Jun-02		ND <0.01	ND <0.02	ND <0.01	0.0079	0.0664	5,740	7.2
	06-Aug-02	resample - TLI	ND <0.01	ND <0.02	--	--	--	--	--
	06-Aug-02	resample split - Zymax	ND <0.01	ND <0.02	--	--	--	--	--
MW-30	11-Jun-02		ND <0.01	ND <0.02	ND <0.01	0.0437	0.0561	41,300	7.0
	06-Aug-02	resample - TLI	ND <0.01	ND <0.02	--	--	--	--	--
	06-Aug-02	resample split - Zymax	ND <0.01	ND <0.02	--	--	--	--	--
MW-31	13-Jun-02		3.73	4.00	ND <0.01	0.0064	0.036	3,160	7.7

- NOTES:
1. Concentrations in milligrams per liter (mg/L), ND = not detected at or above listed project reporting limit, (--) = parameter not tested, J = estimated concentration.
 2. Analysis methods: hexavalent chromium (SW 7196A), total dissolved chromium, copper, nickel, zinc (SW 6020A), elect. conductivity (SW 9050), pH (SW 9040).
 3. The dedicated submersible pump in Well MW-15 was not working and was not sampled during June 2002 event.
 4. Wells Park Moabi and MW-17 are sampled annually (March and September, respectively). Wells PGE-6, PGE-7, PGE-8 are sampled every 2 years.
 5. During August 2002 resampling, shoreline monitoring wells MW-22, MW-27, MW-28, MW-28, and MW-29 were sampled.
 6. Laboratories used: June (2nd quarter) and Aug. 2002 resample by Truesdail Laboratories, Inc. (TLI); resample split-analyses by Zymax Laboratory (Zymax).

Table 2
Results of June 2002 Surface Water Sampling and August 2002 Resampling
Topock Compressor Station

Sample Location	Sample Date	Remarks	Hexavalent Chromium mg/L	Total Chromium mg/L	Copper mg/L	Nickel mg/L	Zinc mg/L	Electrical Conductivity mS/cm	pH
CON	11-Jun-02		0.0192	ND <0.02	ND <0.01	0.0069	0.0479	919	8.5
	06-Aug-02	resample - TLI	ND <0.01	ND <0.02	--	--	--	--	--
	06-Aug-02	resample split - Zymax	ND <0.01	ND <0.02	--	--	--	--	--
Vernal Pool	11-Jun-02		0.0257	ND <0.02	ND <0.01	0.0074	0.0519	976	8.6
	06-Aug-02	resample - TLI	ND <0.01	ND <0.02	--	--	--	--	--
	06-Aug-02	resample split - Zymax	ND <0.01	ND <0.02	--	--	--	--	--
I-3	11-Jun-02		0.0246	ND <0.02	ND <0.01	ND <0.005	0.026	934	8.5
	06-Aug-02	resample - TLI	ND <0.01	ND <0.02	--	--	--	--	--
	06-Aug-02	resample split - Zymax	ND <0.01	ND <0.02	--	--	--	--	--
R-22	11-Jun-02		0.0159	ND <0.02	ND <0.01	0.007	0.0583	898	8.5
	06-Aug-02	resample - TLI	ND <0.01	ND <0.02	--	--	--	--	--
	06-Aug-02	resample split - Zymax	ND <0.01	ND <0.02	--	--	--	--	--
R-27	11-Jun-02		0.0159	ND <0.02	ND <0.01	ND <0.005	0.0284	927	8.5
	06-Aug-02	resample - TLI	ND <0.01	ND <0.02	--	--	--	--	--
	06-Aug-02	resample split - Zymax	ND <0.01	ND <0.02	--	--	--	--	--
R-28	11-Jun-02		0.0192	ND <0.02	ND <0.01	0.0076	0.106	927	8.5
	06-Aug-02	resample - TLI	ND <0.01	ND <0.02	--	--	--	--	--
	06-Aug-02	resample split - Zymax	ND <0.01	ND <0.02	--	--	--	--	--
NR-1	06-Aug-02	new location - TLI	ND <0.01	ND <0.02	--	--	--	--	--
	06-Aug-02	new location split - Zymax	ND <0.01	ND <0.02	--	--	--	--	--
NR-2	06-Aug-02	new location - TLI	ND <0.01	ND <0.02	--	--	--	--	--
	06-Aug-02	new location split - Zymax	ND <0.01	ND <0.02	--	--	--	--	--

- NOTES: 1. Metals concentrations in milligrams per liter (mg/L), ND = not detected at or above listed project required reporting limit, (--) = parameter not tested
2. Analysis methods: hexavalent chromium (SW 7196A), total dissolved chromium, copper, nickel, zinc (SW 6020A), elect. conductivity (SW 9050), pH (SW 9040).
3. During Aug. 2002 resampling, two additional upstream river stations (NR-1 and NR-2) were sampled
4. Laboratories used: June (2nd quarter) and Aug. 2002 resample by Truesdail Laboratories, Inc. (TLI); resample split-analyses by Zymax Laboratory (Zymax).