



Pacific Gas and
Electric Company®

Yvonne J. Meeks
Site Remediation - Portfolio Manager
Environmental Affairs

6588 Ontario Road
San Luis Obispo, CA 93405
Mailing Address
4325 South Higuera Street
San Luis Obispo, CA 93401

805.546.5243
Internal: 664.5243
Fax: 805.546.5232
Internet: YJM1@pge.com

August 17, 2004

Norman Shopay
Project Manager
California Department of Toxic Substances Control
Geology and Corrective Action Branch
700 Heinz Avenue, Suite 200
Berkeley, California 94710

Subject: Groundwater and Surface Water Monitoring Report
Second Quarter 2004
PG&E Topock Compressor Station, Needles, California

Dear Mr. Shopay:

Enclosed is the Second Quarter 2004 groundwater and surface water monitoring report for the Topock project. The monitoring event was conducted by PG&E during June 7 through 18, 2004, and included monitoring and sampling of 57 groundwater wells and 9 surface water locations along the Colorado River. If you have any questions on the groundwater and surface water monitoring report, please call me at (805) 546-5243.

Sincerely,

Paul Betens
for Yvonne Meeks

cc: CWG Members

Groundwater and Surface Water Monitoring Report, Second Quarter 2004

**PG&E Topock Compressor Station
Needles, California**

Prepared for
Pacific Gas and Electric Company

August 17, 2004

CH2MHILL

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Second Quarter 2004**

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**This report was prepared under supervision of a
California Certified Engineering Geologist,**



**Paul Bertucci, C.E.G. No. 1977
Project Hydrogeologist**

Contents

Section	Page
Acronyms and Abbreviations	v
1.0 Background.....	1-1
2.0 Second Quarter 2004 Monitoring Activities	2-1
2.1 Summary of Monitoring and Sampling	2-1
2.2 Groundwater and Surface Water Analyses	2-2
2.1.1 Site COC Analyses	2-2
2.1.2 General Chemistry Parameters	2-2
2.1.3 Additional Analytical Parameters.....	2-3
3.0 June 2004 Quarterly Monitoring Results	3-1
3.1 Chromium Analytical Results	3-1
3.1.1 Groundwater Sampling.....	3-1
3.1.2 Surface Water Sampling	3-1
3.1.3 Presentation of Hexavalent Chromium Results.....	3-1
3.2 General Chemistry and Additional Analytes Results.....	3-2
3.2.1 General Chemistry Parameters	3-2
3.2.2 Additional Analytes.....	3-2
3.3 Analytical Data Quality Review	3-2
3.3 Water Level Measurements	3-3
3.4 Field Parameter Data	3-4
4.0 Upcoming Monitoring Activities	4-1
4.1 Quarterly Monitoring	4-1
4.2 Monthly Monitoring	4-1
4.3 Weekly Well Sampling	4-2
5.0 References.....	5-1

Tables

- 1 Well Construction and Sampling Summary
- 2 Analyses Performed during June 2004 Quarterly Event
- 3 Groundwater COC Sampling Results, September 2002 through June 2004
- 4 Surface Water COC Sampling Results, September 2002 through June 2004
- 5 General Chemistry Analytical Results, 2003-2004
- 6 Groundwater Sampling Results for Additional Analytes, June 2004 Quarterly Event
- 7 Water Level Measurements and Elevations, September 2002 through June 2004
- 8 Field Water Quality Measurements, September 2002 through June 2004

Figures

- 1 Site Location Map
- 2 Groundwater and Surface Water Monitoring Locations, June 2004
- 3 Hexavalent Chromium Sampling Results, June 2004 Quarterly Event
- 4 Total Dissolved Solids in Groundwater and Surface Water, June 2004 Quarterly Event

Acronyms and Abbreviations

CACA	Corrective Action Consent Agreement
COC	constituent of concern
Cr(T)	total chromium
Cr(VI)	hexavalent chromium
DTSC	California Department of Toxic Substances Control
GMP	Groundwater and Surface Water Monitoring Program
IM	Interim Measures
mg/L	milligrams per liter
PCB	polychlorinated biphenyl
PG&E	Pacific Gas and Electric Company
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
SVOC	semivolatile organic compound
TDS	total dissolved solids
VOC	volatile organic compound

1.0 Background

This report presents the results of the second quarter 2004 groundwater and surface water quarterly monitoring event conducted at Pacific Gas and Electric Company's (PG&E) Topock Compressor Station during June 2004. The Topock groundwater and surface water monitoring program (GMP) is part of a RCRA Facility Investigation (RFI) being performed under a Corrective Action Consent Agreement (CACA) issued by the California Department of Toxic Substances Control (DTSC) in 1996 for the Topock site (EPA ID No. CAT080011729). The Topock Compressor Station is located in eastern San Bernardino County, 15 miles southeast of the city of Needles, California (Figure 1).

Under the current 2004 GMP, samples are collected from groundwater wells and surface water stations according to the following schedule:

- Thirty-five groundwater wells and nine surface water stations along the Colorado River are sampled quarterly.
- Three inactive supply wells are sampled every 2 years (December events).
- Twelve groundwater wells and the nine surface water stations are sampled monthly.
- Seven groundwater wells on the floodplain are sampled weekly.

Figure 2 shows the locations of the PG&E Topock Compressor Station, site features, groundwater and surface water monitoring stations in the GMP, and other groundwater wells at the site. Table 1 summarizes information on well construction and sampling methods for all wells in the GMP and other groundwater wells at the site.

The groundwater and surface water monitoring activities were initiated in 1998 as a continuation of the RFI groundwater investigations. Under the current GMP, the wells and surface water monitoring locations are sampled for the site constituents of concern (COCs) defined in the 1996 CACA. The site COCs are hexavalent chromium [Cr(VI)], total chromium [Cr(T)], copper, nickel, zinc, electrical conductivity (also referred to as specific conductance), and pH. Groundwater and surface water elevation data and field water quality data are measured during monitoring events.

During the June 2004 quarterly monitoring event, the 35 groundwater wells and nine surface water locations in the quarterly program were sampled for the site COCs and general chemistry parameters. In addition, the 22 new monitoring wells recently installed at the Topock site for the interim measures (IM) groundwater investigations were also sampled during this quarterly monitoring event. Sampling results for both GMP monitoring locations and the new IM investigation wells are presented in this report.

2.0 Second Quarter 2004 Monitoring Activities

This section provides a summary of the monitoring and sampling activities completed for the second quarter 2004 reporting period, as well as the specific groundwater and surface water analyses performed for the June 2004 quarterly monitoring event.

2.1 Summary of Monitoring and Sampling

The second quarter 2004 monitoring event was conducted from June 7 through June 18, 2004 and included the following activities:

- The 35 groundwater wells and nine surface water stations in the quarterly GMP were sampled for the site COCs and general chemistry parameters.
- The 22 new IM groundwater monitoring wells installed March-May 2004 were sampled for Cr(VI), Cr(T), and general chemistry parameters.
- Twelve selected groundwater wells were sampled for additional organic and inorganic parameters, specifically requested by DTSC for the June 2004 quarterly event.
- Groundwater and surface water elevations and field water quality data were collected for the GMP and IM monitoring locations.

In addition, during the second quarter 2004, two monthly sampling events (April and May) and seven weekly well sampling events were conducted. The results of the weekly and monthly monitoring events performed during the second quarter 2004 have been issued in periodic data reports to DTSC and project stakeholders during the reporting period. The monitoring data tables in this report include the results from the weekly and monthly sampling programs; however, only the data from the June 2004 quarterly monitoring event are discussed.

The specific methods, procedures, and field documentation of the GMP sampling and water level and field water quality monitoring were performed in accordance with PG&E's *Sampling and Analysis Plan for September 2003 Quarterly Groundwater Monitoring* dated September 4, 2003 (CH2M HILL 2003a) and sampling plan addendum (CH2M HILL 2004a). Table 1 summarizes specific well construction and sampling information the groundwater wells monitored during the June 2004 quarterly event.

On July 14, 2004, PG&E submitted a revised and updated *Sampling and Analysis Plan for Groundwater and Surface Water Monitoring* (Sampling Plan) (CH2M HILL 2004b). The updated sampling plan provides project background, detailed description of GMP field sampling and analytical methods and procedures, and the GMP quality assurance project plan.

2.2 Groundwater and Surface Water Analyses

Table 2 presents a summary of the chemical analyses performed during the June 2004 quarterly monitoring event. The analyses performed included the site COCs, a suite of general chemistry parameters, and additional organic and inorganic analyses. Duplicate samples were collected from monitoring wells MW-12, MW-14, MW-26, MW-30-50, MW-39-60, and MW-39-100 to assess field sampling and analytical procedures. Additionally, at property owner request, representatives of the Metropolitan Water District of Southern California collected split samples on June 9, 2004, sampling at wells MW-13 and MW-18.

2.1.1 Site COC Analyses

All monitoring wells and surface water stations in the quarterly GMP were sampled for Cr(VI); dissolved Cr(T), copper, nickel, zinc; specific conductance; and pH. The 22 new IM monitoring wells were sampled for Cr(VI) and Cr(T). Per the sampling plan, Cr(VI) and Cr(T) were analyzed in the water samples using the following analytical methods (Table 2):

- Method SW 7196A was used for samples collected from monitoring wells where prior monitoring has detected Cr(VI) concentrations above 0.050 milligrams per liter (mg/L). The minimum reporting limit for Method 7196A for undiluted samples is 0.010 mg/L.
- Method SW 7199 was used for all surface water samples and all groundwater samples collected from monitoring wells where prior monitoring has not detected Cr(VI) concentrations above 0.050 mg/L. The minimum reporting limit for Cr(VI) using Method SW 7199 is 0.0002 mg/L for undiluted samples.
- Dissolved Cr(T) was analyzed using Method SW 6010B (reporting limit of 0.001 mg/L for undiluted samples).
- Method EPA 218.6 (equivalent to Method 7199), with a reporting limit of 0.0002 mg/L, was used for the Cr(VI) water analysis from the domestic supply well at Park Moabi.

The site COC analyses were performed by Truesdail Laboratories, Inc., a California-certified analytical laboratory in Tustin, California.

2.1.2 General Chemistry Parameters

For water quality characterization, all GMP monitoring wells and four selected river stations were sampled for general chemistry and stable isotope parameters during the June 2004 quarterly event. Additionally, all 22 new IM monitoring wells were sampled for general chemistry and stable isotope parameters. The suite of general chemistry and stable isotope parameters analyzed were:

- Total dissolved solids (TDS).
- Total organic carbon.
- Chloride, sulfate, nitrate, fluoride.
- Dissolved barium, calcium, iron, magnesium, manganese, potassium, sodium.
- Alkalinity.

- Ortho-phosphate.
- Ammonia.
- Sulfide.
- Oxygen 18 and deuterium (stable isotopes).

As listed in Table 2, 15 wells and two surface water locations were previously sampled in May 2004 for a portion of the suite of general chemistry parameters. In those instances, these monitoring locations were not resampled for the same analytes during the June event, and the May general chemistry data have been reported. Additionally, supplemental samples were collected at several wells during July 2004 GMP events to complete all of the general chemistry analyses listed in Table 2. The general chemistry and stable isotope analyses were performed by Zymax Laboratory, a California-certified analytical laboratory in San Luis Obispo, California.

2.1.3 Additional Analytical Parameters

During the June quarterly event, at the request of DTSC, additional organic and inorganic analyses were performed on water samples from the following 12 selected wells: MW-10, MW-11, MW-12, MW-25, MW-27, MW-28-25, MW-29, MW-34-55, MW-34-80, MW-37D, TW-2S, and TW-2D (DTSC 2004a). As listed in Table 2, these wells were sampled for one or more of:

- Volatile organic compounds (VOCs).
- Semivolatile organic compounds (SVOCs).
- Polychlorinated biphenyls (PCBs).
- Full list of metals per California Code of Regulations Title 26.
- Perchlorate.

Per DTSC's request, the groundwater samples for metals analyses were field filtered with a 0.45-micron inline filter. The additional parameter analyses were performed by Zymax Laboratory in San Luis Obispo, California.

3.0 June 2004 Quarterly Monitoring Results

This section summarizes the results of groundwater and surface water sampling completed for the Topock GMP June 2004 quarterly monitoring event. The locations of the GMP and IM groundwater wells and the nine surface water (Colorado River) locations sampled are shown on Figure 2.

The monitoring results and data are presented for Cr(VI) and Cr(T) (the primary site COCs), general chemistry and additional analytes, laboratory data quality review, water level measurements, and water quality field parameter data. The complete laboratory reports and analytical documentation are maintained in the project file and are available upon request.

3.1 Chromium Analytical Results

3.1.1 Groundwater Sampling

Table 3 presents the results of chromium and other site COC analyses for groundwater sampling from the June 2004 quarterly monitoring of the event and historical data from September 2002 through second quarter 2004. The maximum Cr(T) and Cr(VI) concentrations detected in the GMP wells during the quarterly event were 11.3 mg/L and 12.4 mg/L, respectively, in samples from well MW-20-70. Overall, the June 2004 chromium sampling results for wells in the current quarterly GMP are consistent with prior sampling results at these locations (Table 3). The maximum concentrations of Cr(T) and Cr(VI) detected in the June sampling of the new IM wells were 11.4 mg/L and 12.5 mg/L, respectively, in samples from well MW-39-100.

3.1.2 Surface Water Sampling

Table 4 presents the results of chromium and other site COC analyses for June 2004 surface water sampling and historical data from September 2002 through second quarter 2004. Cr(VI) and Cr(T) were not detected in any of the water samples collected at the nine surface water stations sampled during the June 2004 quarterly event.

3.1.3 Presentation of Hexavalent Chromium Results

Figure 3 presents the Cr(VI) results distribution from the June 2004 quarterly monitoring event of the GMP and IM monitoring wells and surface water locations. Figure 3 also shows the approximate outline of Cr(VI) in groundwater greater than 0.05 mg/L (the California drinking water standard for total chromium) based on the June 2004 quarterly sampling results.

3.2 General Chemistry and Additional Analytes Results

3.2.1 General Chemistry Parameters

Table 5 presents the general chemistry and stable isotope results for the GMP and IM groundwater wells and the selected surface water locations sampled during June 2003 and second quarter 2004 monitoring events. In the May-June 2004 sampling, TDS concentrations in groundwater range from less than 700 mg/L (wells MW-27 and MW-16) to a maximum of 30,000 mg/L (MW-30-30). The TDS concentrations in groundwater samples from the new IM monitoring wells ranged from 1,190 mg/L (well MW-40S) to a maximum of 13,000 mg/L (MW-38D).

Figure 4 presents the results of TDS analyses of groundwater and surface water samples collected during the June 2004 quarterly monitoring event. The distribution and range of groundwater TDS concentrations and other salt constituents (chloride, sulfate, sodium, see Table 5) observed in the 2004 sampling are consistent with prior GMP and RFI sampling (CH2M HILL 2003b; E&E 2004).

3.2.2 Additional Analytes

Table 6 presents the results of the additional organic and inorganic analyses performed at selected groundwater wells during the June 2004 monitoring event. The results of these tests are summarized as follows:

- Except for trace concentrations of chloroform (a common laboratory contaminant) in three samples, VOCs were not detected in any of the groundwater samples collected at the nine wells sampled.
- SVOCs were not detected in any of the groundwater samples collected at the nine wells sampled.
- PCBs were not detected in any of the groundwater samples collected at the six wells sampled.
- Perchlorate was not detected in any of the groundwater samples collected at the seven wells sampled. Due to high TDS levels, the laboratory reporting limits for perchlorate in several groundwater samples were elevated (Table 6).
- In addition to total chromium, the dissolved trace metals detected in the June 2004 groundwater sampling include antimony, arsenic, barium, molybdenum, nickel, selenium, vanadium, and zinc. Arsenic was detected in one location (well MW-12) at a concentration of 0.07 mg/L (the current drinking water standard for arsenic is 0.05 mg/L). The concentrations of the other detected metals, excluding chromium, are below drinking water standards.

3.3 Analytical Data Quality Review

The laboratory analytical data generated from the second quarter 2004 monitoring event were independently reviewed by project chemists to assess data quality and identify

deviations from analytical requirements. Detailed discussion of data quality for GMP sampling data are presented in the data validation reports, which are kept in the project file and are available upon request. The results of the June 2004 data quality review are summarized below.

No significant analytical deficiencies were identified in the June 2004 monitoring data, and none of the results from this event was qualified as unusable. With minor exceptions, the analyses and data quality meet the laboratory method quality control acceptance criteria. Minor exceptions are noted below. Overall, the analytical data for the June 2004 quarterly monitoring event are considered acceptable for the intended purpose of monitoring groundwater and surface water conditions at the site.

Matrix Interference: Matrix interference was encountered in groundwater samples from selected floodplain monitoring wells that affected the sensitivity for Cr(VI) analyses by Method SW 7199. Some of the results from these wells reflect adjusted reporting limits (Table 3) as a result of serial dilutions required to overcome matrix interference and provide acceptable matrix spike recoveries.

Holding Time Data Qualification: Several groundwater samples collected during the June 2004 event exhibited matrix interferences that required multiple analyses to meet acceptance criteria. Due to the re-analyses, the Cr(VI) results for the groundwater samples from MW-21 is qualified as estimated concentrations (J qualifier) because the final analyses were performed approximately 1 hour beyond the recommended 24-hour analysis holding time for Method SW 7199.

Sample Dilution Data Qualification: Matrix effects were identified in several groundwater samples that required sample dilution and re-analyses to meet acceptance criteria. Accordingly, the Cr(VI) reporting limits for detection were raised for these samples due to the required sample dilution for matrix effects.

Field Blank Data Qualification: Zinc and sodium were detected in several equipment blanks above the reporting limit. The sodium and/or zinc results of associated groundwater samples that were less than five times the concentration detected in the equipment blank were qualified as non-detected at the field blank concentration.

3.3 Water Level Measurements

Table 7 lists the water level measurements and groundwater and surface water elevations collected during the June 2004 quarterly event. Water level measurements from prior monitoring events since September 2002 are summarized in this table for reference and comparison. Table 7 also lists water salinity data for the wells where water level data were measured. Groundwater salinity during this monitoring event ranged from 0 percent (well MW-27) to a maximum of 3.2 percent (well MW-30-30), consistent with prior monitoring. Because of the density differences in groundwater due to salinity variations, the groundwater elevations measured in the groundwater wells have been adjusted, or normalized, to a freshwater standard (Table 7).

As discussed in the March 2004 monitoring report (CH2M HILL 2004b), water elevation data collected by manual water level methods at the Topock site are not sufficient to

accurately illustrate hydraulic gradients in the alluvial aquifer (due to the hourly fluctuations of the river level and its effects on groundwater levels). Accordingly, hydraulic gradient maps are not included in this GMP monitoring report. However, since March 2004, a network of over 35 pressure transducers (primarily in wells monitoring the floodplain area) are being used to collect continuous records of water elevation data in the alluvial aquifer and Colorado River for analysis and assessment of hydraulic data. This assessment is ongoing and is being reported as part of the IM activities. The average groundwater gradients for wells in the floodplain area are calculated on a monthly basis and are presented in the IM performance monitoring reports (CH2M HILL 2004d).

3.4 Field Parameter Data

A field parameter meter and flow-through cell are used to measure water quality parameters during well purging and groundwater sampling (CH2M HILL 2004b). Water quality field measurements are also recorded during surface water sampling. The field parameters measured include specific conductance, temperature, pH, oxidation-reduction potential, and dissolved oxygen. Table 8 summarizes the field water quality data measured during the June 2004 quarterly event and prior monitoring events.

4.0 Upcoming Monitoring Activities

In July 2004, a revised and updated sampling plan (CH2M HILL 2004b) was issued to DTSC and project stakeholders for review. The July 2004 sampling plan presented recommendations for modifying components of the current GMP, including monitoring locations, sampling frequency, and analytical parameters. The upcoming monitoring activities, as proposed in the July 2004 sampling plan, are summarized below. The proposed modifications to the GMP, and applicable revisions to the sampling plan, will be implemented upon approval from DTSC.

4.1 Quarterly Monitoring

The third quarter 2004 monitoring event is scheduled for mid-September 2004. As described in the July 2004 sampling plan, the proposed modifications to the quarterly GMP monitoring activity include:

- Incorporating the 22 new IM monitoring wells into the quarterly program (total of 55 wells for quarterly sampling).
- Transitioning background wells MW-16 and MW-17 to annual sampling.
- Discontinuing sampling for copper, nickel, and zinc in all quarterly wells and surface water locations.
- Adding full-list Title 26 dissolved metals analyses to the following nine selected wells: MW-10, MW-11, MW-12, MW-25, MW-34-55, MW-34-80, MW-37D, MW-20-70, MW-20-130.

The GMP monitoring report for the upcoming third quarter 2004 event will be prepared and submitted approximately 8 weeks after sampling.

4.2 Monthly Monitoring

Beginning in November 2003, at the DTSC's request, PG&E has conducted monthly sampling for Cr(VI) and Cr(T) in selected monitoring wells in the Colorado River floodplain for more frequent monitoring of water quality in this area of the site. Requirements for the monthly monitoring activity were further modified to include surface water monitoring as specified by DTSC (DTSC 2004b). For third quarter 2004, the current GMP monthly sampling events were conducted in July and August 2004.

As described in the July 2004 sampling plan, the proposed modifications to subsequent monthly sampling events include:

- Incorporating 12 of the new IM monitoring wells into the monthly floodplain well sampling program (total of 24 wells for monthly sampling).
- Transitioning well MW-21 to quarterly sampling.

4.3 Weekly Well Sampling

Beginning January 29, 2004, at DTSC's request, PG&E has conducted weekly sampling for Cr(VI) and Cr(T) in seven selected monitoring wells in the floodplain as part of IM data collection (DTSC 2004c). The duration of the weekly well sampling was not specified in the DTSC request letter. For third quarter 2004, the current GMP weekly sampling events were conducted during July and early August 2004.

Based on sampling results and monitoring needs, the July 2004 sampling plan proposed that the weekly well sampling activity be transitioned to a biweekly sampling effort, involving four wells selected to better monitor the plume edge nearest the Colorado River. The four floodplain wells proposed for biweekly sampling are MW-28-90, MW-33-90, MW-34-80, and MW-36-100 (see Figure 2 for well locations).

The proposed modifications to the quarterly, monthly, and weekly monitoring programs will be implemented upon approval from DTSC.

5.0 References

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Tables

Table 1
Well Construction and Sampling Summary
Topock Project Groundwater Monitoring

Well ID	Sampling Frequency (current GMP)	Measure Point Elevation feet MSL	Screen Interval feet BGS	Well Casing	Well Depth feet BGS	Depth to Water May-04 feet TOC	Sampling System	Typical Purge Rate gpm	Typical Purge Volume gallons	Remarks
MW-09	Quarterly	536.56	77 - 87	4" PVC	89	81	CD pump	3	11	
MW-10	Quarterly	530.65	74-94	4" PVC	95	74	CD pump	5	40	
MW-11	Quarterly	522.61	63-83	4" PVC	84	67	CD pump	5	30	
MW-12	Quarterly	484.01	28-48	4" PVC	49	29	CD pump	10	40	
MW-13	Quarterly	488.64	29-49	4" PVC	50	32	CD pump	4	30	
MW-14	Quarterly	570.99	111-131	4" PVC	132	116	CD pump	4	30	
MW-15	Quarterly	641.52	181-201	4" PVC	202	185	CD pump	5	30	
MW-16	Quarterly	657.31	198-218	4" PVC	218	202	CD pump	7	35	
MW-17	Quarterly	589.96	130-150	4" PVC	151	134	CD pump	5	32	
MW-18	Quarterly	545.32	85-105	4" PVC	105	90	CD pump	5	30	
MW-19	Quarterly	499.92	46-66	4" PVC	66	44	CD pump	7	41	
MW-20-70	Quarterly	500.15	50-70	4" PVC	70	45	CD pump	10	53	
MW-20-100	Quarterly	500.58	90-100	4" PVC	100	47	CD pump	10	110	
MW-20-130	Quarterly	500.66	121-131	4" PVC	131	52	CD pump	10	180	
MW-21	Monthly	505.55	49-59	4" PVC	60	50	CD pump	10	10	low recharge well; purges dry at 1 casing volume
MW-22	Quarterly	460.72	6-11	2" PVC	11	6	Peristaltic	0.2	4	
MW-23	Quarterly	507.33	60-80	4" PVC	80	53	CD Pump	5	20	low recharge well; purges dry at 1 casing volume
MW-24A	Quarterly	567.16	104-124	4" PVC	125	112	CD pump	3	30	
MW-24B	Quarterly	564.76	194-214	4" PVC	214	110	CD pump	7	210	
MW-24BR	Quarterly	563.95	378-438	4" PVC	438	109	CD pump	8	185	low recharge well; purges dry at 1 casing volume
MW-25	Quarterly	542.90	85-105	4" PVC	105	87	CD pump	5	32	
MW-26	Quarterly	502.22	52-72	4" PVC	71	46	CD pump	7	50	
MW-27	Weekly	460.56	7-17	2" PVC	17	4	Redi-Flo AR	1	7	using temporary Redi-Flo pump 6/04
MW-28-25	Weekly	466.85	13-23	2" PVC	23	10	Redi-Flo AR	1	5	using temporary Redi-Flo pump 6/04
MW-28-90	IM investigation	467.66	70-90	2" PVC	95	12	Redi-Flo AR	2	50	
MW-29	Monthly	485.21	30-40	2" PVC	40	29	Redi-Flo AR	0.5	6	using temporary Redi-Flo pump 6/04
MW-30-30	Weekly	468.12	12-32	2" PVC	32	12	Redi-Flo AR	1.5	10	using temporary Redi-Flo pump 6/04
MW-30-50	Weekly	468.81	41-51	4" PVC	51	13	Redi-Flo AR	2	75	
MW-31-060	Quarterly	496.81	42-62	4" PVC	62	41	CD pump	7	40	
MW-31-135	IM investigation	498.11	113-133	2" PVC	133	42	Redi-Flo AR	3	60	using temporary Redi-Flo pump 6/04
MW-32-20	Monthly	461.51	10-20	2" PVC	20	6	Redi-Flo AR	1.5	6	using temporary Redi-Flo pump 6/04
MW-32-35	Monthly	461.63	28-35	4" PVC	35	5	Redi-Flo AR	2	60	using temporary Redi-Flo pump 6/04

Table 1
Well Construction and Sampling Summary
Topock Project Groundwater Monitoring

Well ID	Sampling Frequency (current GMP)	Measure Point Elevation feet MSL	Screen Interval feet BGS	Well Casing	Well Depth feet BGS	Depth to Water May-04 feet TOC	Sampling System	Typical Purge Rate gpm	Typical Purge Volume gallons	Remarks
MW-33-40	Monthly	487.41	30-40	4" PVC	40	31	Redi-Flo AR	0.5	4	using temporary Redi-Flo pump 6/04
MW-33-90	Weekly	487.57	77-87	4" PVC	87	31	Redi-Flo AR	2	110	
MW-34-55	Weekly	460.88	45-55	4" PVC	55	5	Redi-Flo AR	2	100	using temporary Redi-Flo pump 6/04
MW-34-80	Weekly	460.99	73-83	4" PVC	83	5	Redi-Flo AR	3	150	
MW-35-060	IM investigation	483.51	37-57	2" PVC	57	28	Redi-Flo AR	2	18	using temporary Redi-Flo pump 6/04
MW-35-135	IM investigation	483.57	117-137	2" PVC	157	28	Redi-Flo AR	3	66	using temporary Redi-Flo pump 6/04
MW-36-20	IM investigation	469.32	10-20	1" PVC	20	13	Peristaltic	0.5	4	
MW-36-40	IM investigation	469.64	30-40	1" PVC	40	14	Peristaltic	0.5	4	
MW-36-50	IM investigation	469.65	46-51	1" PVC	51	14	Peristaltic	0.8	5	
MW-36-70	IM investigation	469.31	60-70	1" PVC	70	13	Peristaltic	0.5	7	
MW-36-90	IM investigation	469.68	80-90	1" PVC	90	14	Peristaltic	0.4	10	
MW-36-100	IM investigation	469.69	88-98	2" PVC	108	13	Redi-Flo AR	2	45	
MW-37S	IM investigation	485.97	64-84	2" PVC	84	30	Redi-Flo AR	2	30	using temporary Redi-Flo pump 6/04
MW-37D	IM investigation	486.19	180-200	2" PVC	225	30	Redi-Flo AR	3	100	using temporary Redi-Flo pump 6/04
MW-38S	IM investigation	525.51	75-95	2" PVC	95	90	Redi-Flo AR	1	13	using temporary Redi-Flo pump 6/04
MW-38D	IM investigation	525.31	153-173	2" PVC	188	68	Redi-Flo AR	3	60	using temporary Redi-Flo pump 6/04
MW-39-40	IM investigation	468.02	30-40	1" PVC	40	12	Peristaltic	0.5	3.5	
MW-39-50	IM investigation	467.93	47-52	1" PVC	52	12	Peristaltic	0.5	5	
MW-39-60	IM investigation	468.00	49-59	1" PVC	64	12	Peristaltic	0.5	6	
MW-39-70	IM investigation	468.02	60-70	1" PVC	70	12	Peristaltic	0.5	7	
MW-39-80	IM investigation	467.92	70-80	1" PVC	80	12	Peristaltic	0.5	9	
MW-39-100	IM investigation	468.01	80-100	2" PVC	115	12	Redi-Flo AR	2	45	
MW-40S	IM investigation	566.04	115-135	2" PVC	135	110	Redi-Flo AR	2	13	using temporary Redi-Flo pump 6/04
MW-40D	IM investigation	566.08	240-260	2" PVC	265	110	Redi-Flo AR	1-2	75	using temporary Redi-Flo pump 6/04

Water Supply Wells

PGE-6	Bi-annually	563.32	110-180	14" steel	180	108	CD pump	24	650	inactive supply
PGE-7	Bi-annually	563.89	195-330	14" steel & 7"	330	109	CD pump	12	600	inactive supply
PGE-8	Bi-annually	596.01	405-554	8" steel	562	114	CD pump	20	1,900	inactive injection
Park Moabi	Quarterly	518.55	80-200	8" steel	210	61	active supply well	---	---	call Park Ranger to schedule sampling
TW-01	idle test well	620.55	169-269	5" PVC	269	167	CD pump	20	200	inactive pilot test well

Table 1
Well Construction and Sampling Summary
Topock Project Groundwater Monitoring

Well ID	Sampling Frequency (current GMP)	Measure Point Elevation feet MSL	Screen Interval feet BGS	Well Casing	Well Depth feet BGS	Depth to Water May-04 feet TOC	Sampling System	Typical Purge Rate gpm	Typical Purge Volume gallons	Remarks
Other Site Wells not in GMP										
TW-2S	---	499.05	44-94	6" PVC	99	42	CD pump	---	---	IM extraction well
TW-2D	---	499.57	113-153	6" PVC	153	42	CD pump	---	---	active IM extraction well
MW-01	---	661.76	201-211	4" PVC	212	209	air bladder pump	---	---	active PG&E pond monitoring well
MW-03	---	650.51	189-207	4" PVC	207	194	air bladder pump	---	---	active PG&E pond monitoring well
MW-04	---	625.73	165-175	4" PVC	177	169	air bladder pump	---	---	active PG&E pond monitoring well
MW-05	---	635.69	176-185	4" PVC	185	179	air bladder pump	---	---	active PG&E pond monitoring well
MW-06	---	642.84	185-194	4" PVC	194	186	air bladder pump	---	---	active PG&E pond monitoring well
MW-07	---	631.91	173-182	4" PVC	183	175	air bladder pump	---	---	active PG&E pond monitoring well
MW-08	---	627.54	169-178	4" PVC	179	170	air bladder pump	---	---	active PG&E pond monitoring well
P-2	---	NA	239-249	4" PVC	249	170	---	---	---	inactive monitoring well
MWP-08	---	677.48	181-211	3" PVC	211	---	---	---	---	inactive monitoring well
MWP-10	---	675.81	194-234	3" PVC	235	---	---	---	---	inactive monitoring well
MWP-12	---	663.49	96-136	4" PVC	143	---	---	---	---	inactive monitoring well
NOTES:										
1.	Well elevations from well surveys conducted Feb. 2004 and May 2004. Well depth, and screen interval and water level depths rounded-off to whole-foot values.									
2.	Abbreviations: BGS = below ground surface, MSL = mean sea level, TOC = top of polyvinyl chloride (PVC) casing, NA = not known or available, gpm = gallons per minute									
3.	CD pump = dedicated constant-discharge electric submersible pump, Redi-Flo AR = adjustable-rate electric submersible pump									
4.	All GMP wells except low recharge wells and Park Moabi well are purged and sampled using well-volume method.									

Table 2
Analyses Performed during June 2004 Quarterly Monitoring Event
Topock Groundwater Monitoring Program

		Site COCs					General Chemistry Parameters								Additional DTSC Requested Analytes						
Well / Station	Sampling Program	Hex. Chrom.	Hex. Chrom.	Diss. Cr(T) plus Cu, Ni, Zn	pH	Spec. Conduct.	TDS	TOC	Oxygen 18 & Deuterium	Chloride, Sulfate, Nitrate-N, Fluoride	Dissolved Ba, Ca, Fe, Mg, Mn, K, Na	Alkalinity Carbonate & Bicarbonate (calculated)	Ortho-Phosphate	Ammonia	Sulfide	VOCs extended list	SVOCs	PCBs	Perchlorate use DHS guidance	Dissolved Title 26 Metals field filtered	Dissolved Hg field filtered
		(SW 7199)	(SW 7196A)	(SW 6010B)	(EPA 150.1)	(EPA 160.1)	(EPA 160.1)	(EPA 415.2)	(CF-IRMS)	(EPA 300.0)	(EPA 6010B)	(EPA310.1)	(EPA 365.2)	(EPA 350.2)	(EPA 350.2)	(EPA 8260B)	(EPA 8270C)	(EPA 8082)	(EPA 314.0)	(SW 6010B)	(SW 7470A)
GMP Monitoring Wells																					
MW-09	GMP - Quarterly			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-10	GMP - Quarterly			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MW-11	GMP - Quarterly			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MW-12	GMP - Quarterly			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MW-13 (MWD split)	GMP - Quarterly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-14	GMP - Quarterly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-15	GMP - Quarterly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-16	GMP - Quarterly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-17	GMP - Quarterly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-18 (MWD split)	GMP - Quarterly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-19	GMP - Quarterly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-20-70	GMP - Quarterly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-20-100	GMP - Quarterly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-20-130	GMP - Quarterly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-21	GMP - Monthly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-22	GMP - Quarterly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-23	GMP - Quarterly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-24A	GMP - Quarterly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-24B	GMP - Quarterly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-24BR	GMP - Quarterly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-25	GMP - Quarterly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MW-26	GMP - Quarterly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-27	GMP - Weekly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
MW-28-25	GMP - Weekly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-29	GMP - Monthly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-30-30	GMP - Weekly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-30-50	GMP - Weekly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-31-60	GMP - Quarterly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-32-20	GMP - Monthly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-32-35	GMP - Monthly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-33-40	GMP - Monthly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-33-90	GMP - Weekly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-34-55	GMP - Weekly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MW-34-80	GMP - Weekly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Park Moabi	GMP - Quarterly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
New IM Monitoring Wells																					
MW-28-90	IM - 2nd Sampling	✓		Cr (T)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-31-135	IM - 2nd Sampling	✓		Cr (T)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-35-60	IM - 2nd Sampling	✓		Cr (T)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-35-135	IM - 2nd Sampling	✓		Cr (T)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-36-20 (1st well)	IM - 2nd Sampling	✓		Cr (T)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-36-40 (1st well)	IM - 2nd Sampling	✓		Cr (T)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-36-50 (1st well)	IM - 2nd Sampling	✓		Cr (T)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-36-70 (1st well)	IM -																				

Table 2
Analyses Performed during June 2004 Quarterly Monitoring Event
Topock Groundwater Monitoring Program

		Site COCs					General Chemistry Parameters								Additional DTSC Requested Analytes							
Well / Station	Sampling Program	Hex. Chrom.	Hex. Chrom.	Diss. Cr(T) plus Cu, Ni, Zn	pH	Spec. Conduct.	TDS	TOC	Oxygen 18 & Deuterium	Chloride, Sulfate, Nitrate-N, Fluoride	Dissolved Ba, Ca, Fe, Mg, Mn, K, Na	Alkalinity Carbonate & Bicarbonate (calculated)	Ortho-Phosphate	Ammonia	Sulfide	VOCs extended list	SVOCs	PCBs	Perchlorate use DHS guidance	Dissolved Title 26 Metals field filtered	Dissolved Hg field filtered	
		(SW 7199)	(SW 7196A)	(SW 6010B)	(EPA 150.1)	(EPA 160.1)	(EPA 160.1)	(CF-IRMS)	(EPA 300.0)	(EPA 6010B)	(EPA310.1)	(EPA 365.2)	(EPA 350.2)	(EPA 350.2)	(EPA 8260B)	(EPA 8270C)	(EPA 8082)	(EPA 314.0)	(SW 6010B)	(SW 7470A)		
MW-36-90 (1" well)	IM - 2nd Sampling	✓		Cr (T)			✓	✓	✓	✓	✓	✓	✓	✓	✓							
MW-36-100	IM - 2nd Sampling	✓		Cr (T)			✓	✓	✓	✓	✓	✓	✓	✓	✓							
MW-37S	IM - 2nd Sampling	✓		Cr (T)			✓	✓	✓	✓	✓	✓	✓	✓	✓							
MW-37D	IM - 2nd Sampling	✓		Cr (T)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
MW-38S	IM - 2nd Sampling	✓		Cr (T)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
MW-38D	IM - 2nd Sampling	✓		Cr (T)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
MW-39-40 (1" well)	IM - 2nd Sampling	✓		Cr (T)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
MW-39-50 (1" well)	IM - 2nd Sampling	✓		Cr (T)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
MW-39-60 (1" well)	IM - 2nd Sampling		✓	Cr (T)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
MW-39-70 (1" well)	IM - 2nd Sampling		✓	Cr (T)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
MW-39-80 (1" well)	IM - 2nd Sampling		✓	Cr (T)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
MW-39-100	IM - 2nd Sampling		✓	Cr (T)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
MW-40S	IM - 2nd Sampling	✓		Cr (T)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
MW-40D	IM - 2nd Sampling	✓		Cr (T)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
IM2 Extraction Wells																						
TW-2S	IM2 operations	sampled under IM2 operations					sampled for treatment characterization under IM2								✓	✓	✓	✓	✓	✓	✓	
TW-2D	IM2 operations	sampled under IM2 operations					sampled for treatment characterization under IM2								✓	✓	✓	✓	✓	✓	✓	
GMP Surface Water Stations																						
NR-1	River - Monthly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
NR-2	River - Monthly	✓		✓	✓	✓	✓															
NR-3	River - Monthly	✓		✓	✓	✓	✓															
CON	River - Monthly	✓		✓	✓	✓	✓															
RRB	River - Monthly	✓		✓	✓	✓	✓															
R-22	River - Monthly	✓		✓	✓	✓	✓															
R-27	River - Monthly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
R-28	River - Monthly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
I-3	River - Monthly	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
Stations Sampled:	52	16	66	44	44	63	61	61	61	61	61	61	61	61	61	61	9	9	6	7	9	9

NOTES:

1. General chemistry parameters shaded brown were collected during IM chemical performance monitoring, May 10-14, 2004.
2. Samples from the Park Moabi drinking water supply well were analyzed using state drinking water methodology: hexavalent chromium by EPA Method 218.6

Cr - chromium Ca - calcium
Cu - copper Fe - iron
Ni - nickel Mg - magnesium
Zn - zinc Mn - manganese
Ba - barium K - potassium

Na - sodium Hg - mercury
TDS - total dissolved solids
TOC - total organic carbon
VOC - volatile organic compounds

Table 3
Groundwater COC Sampling Results
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (µS/cm)	pH
MW-09	17-Sep-02	0.360	0.401	ND (0.056)	ND (0.006)	0.248	---	---
	10-Dec-02	0.402	0.428	ND (0.020)	ND (0.028)	0.255	---	---
	18-Mar-03	0.368	0.357	0.015	ND (0.028)	0.363	---	---
	12-Jun-03	0.343	0.349	ND (0.010)	0.030	0.361	3,690	7.65
	11-Sep-03	0.376	0.340	0.017	ND (0.026)	0.140	3,260	7.49
	12-Dec-03	0.357	0.460	ND (0.010)	ND (0.020)	0.025	3,490	7.56
	16-Mar-04	0.342	0.297	0.014	ND (0.020)	0.072	3,150	7.50
	09-Jun-04	0.359	0.334	ND (0.010)	ND (0.020)	ND (0.082)	3,160	7.82
MW-10	17-Sep-02	2.07	2.33	ND (0.020)	0.014	0.177	---	---
	10-Dec-02	1.93	2.15	ND (0.020)	ND (0.028)	0.119 J	---	---
	10-Dec-02 FD	1.97	1.79	ND (0.020)	ND (0.028)	0.200 J	---	---
	18-Mar-03	1.64	1.47	ND (0.011)	ND (0.028)	0.637	---	---
	12-Jun-03	1.65	1.75	ND (0.010)	ND (0.026)	0.445	4,280	7.75
	11-Sep-03	1.92	1.75	ND (0.011)	ND (0.026)	0.093	3,330	7.60
	12-Dec-03	1.92	4.20	ND (0.010)	ND (0.020)	0.025	3,260	7.68
	16-Mar-04	1.35	1.11	ND (0.010)	ND (0.020)	0.064	3,700	7.79
	10-Jun-04	1.39	1.30	ND (0.010)	ND (0.020)	ND (0.029)	3,670	7.88
MW-11	17-Sep-02	0.408	0.483	ND (0.028)	0.016	0.443 J	---	---
	17-Sep-02 FD	0.409	0.467	ND (0.028)	ND (0.006)	0.208 J	---	---
	10-Dec-02	0.584	0.696	ND (0.020)	ND (0.028)	0.176	---	---
	18-Mar-03	0.463	0.452	ND (0.011)	ND (0.028)	0.329	---	---
	12-Jun-03	0.429	0.453	ND (0.010)	0.020 J	0.399	2,930	7.93
	12-Jun-03 FD	0.415	0.435	ND (0.010)	ND (0.026)	0.450	2,670	7.62
	11-Sep-03	0.412	0.376	ND (0.011)	ND (0.026)	0.063	2,440	7.52
	12-Dec-03	0.566	0.772	ND (0.010)	ND (0.020)	ND (0.020)	2,450	7.51
	16-Mar-04	0.432	0.358	ND (0.010)	ND (0.020)	0.069	2,520	7.48
	10-Jun-04	0.424	0.394	ND (0.010)	ND (0.020)	ND (0.021)	2,280	7.54
MW-12	18-Sep-02	1.16	1.31	ND (0.028)	ND (0.006)	0.084	---	---
	11-Dec-02	1.25	1.61	ND (0.020)	ND (0.028)	0.069	---	---
	20-Mar-03	1.28	1.10	ND (0.011)	ND (0.028)	0.540 J	---	---
	20-Mar-03 FD	1.26	1.19	ND (0.011)	ND (0.028)	0.284 J	---	---
	11-Jun-03	1.28	1.08	ND (0.010)	ND (0.026)	0.121	4,250	8.42
	09-Sep-03	1.31	1.24	ND (0.011)	ND (0.026)	ND (0.026)	4,040	8.34
	10-Dec-03	1.39	1.72	ND (0.010)	ND (0.020)	ND (0.020)	4,130	8.39
	16-Mar-04	1.33	1.24	ND (0.010)	ND (0.020)	0.095	4,270	8.40
	09-Jun-04	1.56	1.57	ND (0.010)	ND (0.020)	ND (0.056)	4,570	8.31
	09-Jun-04 FD	1.56	1.39	ND (0.010)	ND (0.020)	ND (0.060)	4,420	8.29
MW-13	17-Sep-02	0.018	0.034	ND (0.020)	0.012	0.171	---	---
	10-Dec-02	0.023	0.029	ND (0.020)	ND (0.028)	0.172	---	---
	21-Mar-03	0.023	0.023	ND (0.011)	ND (0.028)	0.345	---	---
	12-Jun-03	0.016	0.180	ND (0.010)	0.168	0.451	2,410	7.88
	12-Sep-03	0.020	0.027	ND (0.011)	ND (0.026)	0.260 J	2,070	7.60
	12-Sep-03 FD	0.020	0.018	ND (0.011)	ND (0.026)	0.108 J	2,060	7.63
	12-Dec-03	0.024	0.018	ND (0.010)	ND (0.020)	0.031	2,070	7.65
	12-Dec-03 FD	0.026	0.017	ND (0.010)	ND (0.020)	0.026	2,070	7.64
	17-Mar-04	0.020	0.018	ND (0.010)	ND (0.020)	0.083 J	2,130	7.56

Table 3
Groundwater COC Sampling Results
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (µS/cm)	pH
MW-13	17-Mar-04 FD	0.020	0.016	ND (0.010)	ND (0.020)	0.133 J	2,120	7.57
	09-Jun-04	0.019	0.018	ND (0.010)	ND (0.020)	ND (0.076)	1,970	7.61
MW-14	18-Sep-02	0.031	0.033	ND (0.020)	0.022	0.164	---	---
	10-Dec-02	0.049	0.048	ND (0.020)	0.029	0.498	---	---
	21-Mar-03	0.047	0.036	ND (0.011)	ND (0.028)	0.300 J	---	---
	21-Mar-03 FD	0.048	0.037	ND (0.011)	ND (0.028)	0.105 J	---	---
	12-Jun-03	0.031	0.031	ND (0.010)	0.040 J	0.244	1,720	7.98
	11-Sep-03	0.047	0.032	ND (0.011)	ND (0.026)	0.045	1,553	7.76
	12-Dec-03	0.045	0.029	ND (0.010)	ND (0.020)	0.036	1,550	7.80
	16-Mar-04	0.044	0.027	ND (0.010)	ND (0.020)	0.058	1,550	7.79
	08-Jun-04	0.033	0.036	ND (0.010)	ND (0.020)	ND (0.068)	1,340	7.71
	08-Jun-04 FD	0.032	0.034	ND (0.010)	ND (0.020)	ND (0.068)	1,570	7.70
MW-15	10-Dec-02	0.023	0.019	ND (0.020)	ND (0.028)	0.419	---	---
	18-Mar-03	0.029	0.021	ND (0.011)	ND (0.028)	0.276	---	---
	12-Jun-03	0.011	0.013	ND (0.010)	ND (0.026)	0.220	1,780	7.85
	11-Sep-03	0.021	0.012	ND (0.011)	ND (0.026)	0.053	1,273	7.81
	12-Dec-03	0.013	0.008	ND (0.010)	ND (0.020)	0.037	1,380	7.81
	16-Mar-04	0.016	0.008	ND (0.010)	0.028	0.053	1,700	7.69
	07-Jun-04	0.008	0.009	ND (0.010)	ND (0.020)	ND (0.036)	1,500	7.77
MW-16	10-Dec-02	0.020	0.023	ND (0.020)	ND (0.028)	0.191	---	---
	18-Mar-03	0.019	0.025	ND (0.011)	ND (0.028)	0.368	---	---
	12-Jun-03	0.015	0.014	ND (0.010)	ND (0.026)	0.565	1,360	8.06
	11-Sep-03	0.018	0.005	0.038	ND (0.026)	0.054	1,145	7.96
	12-Dec-03	0.013	0.007	ND (0.010)	ND (0.020)	0.023	1,190	7.98
	16-Mar-04	0.018	0.010	ND (0.010)	ND (0.020)	0.040	1,200	7.98
	09-Jun-04	0.009	0.010	ND (0.010)	ND (0.020)	ND (0.064)	1,130	8.13
MW-17	18-Sep-02	ND (0.010)	0.005	ND (0.020)	ND (0.005)	0.169	---	---
	11-Sep-03	0.002	0.002	ND (0.011)	ND (0.026)	0.090	1,782	7.71
	05-Nov-03	0.005	0.008	---	---	---	---	---
	12-Dec-03	0.009	0.014	ND (0.010)	ND (0.020)	0.140	1,800	7.73
	16-Mar-04	0.007	0.006	ND (0.010)	ND (0.020)	0.071 J	1,840	7.81
	07-Jun-04	0.013	0.014	ND (0.010)	ND (0.020)	ND (0.069)	1,770	7.82
MW-18	18-Sep-02	0.029	0.036	ND (0.020)	ND (0.005)	0.375 J	---	---
	18-Sep-02 FD	0.032	0.033	ND (0.020)	ND (0.005)	0.147 J	---	---
	10-Dec-02	0.035	0.042	ND (0.020)	ND (0.028)	0.188	---	---
	18-Mar-03	0.034	0.043	ND (0.011)	ND (0.028)	0.137	---	---
	12-Jun-03	0.023	0.031	ND (0.010)	ND (0.026)	0.556	1,600	7.87
	11-Sep-03	0.046	0.031	ND (0.011)	ND (0.026)	0.050	1,272	7.71
	12-Dec-03	0.035	0.031	ND (0.010)	ND (0.020)	0.037	1,270	7.72
	16-Mar-04	0.035	0.030	ND (0.010)	ND (0.020)	0.067 J	1,290	7.64
	09-Jun-04	0.024	0.026	ND (0.010)	ND (0.020)	ND (0.148)	716	7.86
MW-19	10-Dec-02	0.761	0.750	ND (0.020)	0.010 J	0.356	---	---
	21-Mar-03	0.748	0.631	ND (0.011)	ND (0.028)	0.176	---	---
	11-Jun-03	0.581	0.614	ND (0.010)	ND (0.026)	0.398	2,410	7.77
	12-Sep-03	0.725	0.602	ND (0.011)	ND (0.026)	0.101	2,350	7.62
	10-Dec-03	0.751	0.639	ND (0.010)	ND (0.020)	ND (0.020)	2,360	7.66

Table 3
Groundwater COC Sampling Results
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (µS/cm)	pH
MW-19	16-Mar-04	0.796	0.589	ND (0.010)	ND (0.020)	0.112 J	2,350	7.93
	08-Jun-04	0.813	0.718	ND (0.010)	ND (0.020)	ND (0.032)	2,100	7.43
MW-20-070	17-Sep-02	8.24	9.79	ND (0.020)	0.014	0.478	---	---
	11-Dec-02	8.76	13.8	ND (0.020)	ND (0.028)	0.123	---	---
	20-Mar-03	11.6	10.2	ND (0.011)	ND (0.028)	0.217	---	---
	11-Jun-03	11.9	9.23	0.020	ND (0.026)	0.149	3,810	7.62
	09-Sep-03	9.69	10.8	ND (0.011)	ND (0.026)	0.024 J	3,380	7.73
	10-Dec-03	9.87	15.9	ND (0.010)	ND (0.020)	0.079	3,420	7.66
	03-Mar-04	11.2	10.8	---	---	---	---	---
	15-Mar-04	11.2	9.77	ND (0.010)	ND (0.020)	0.530	3,650	7.56
	11-May-04	11.0	12.0	---	---	---	---	---
	11-Jun-04	12.4	11.3	ND (0.010)	ND (0.020)	ND (0.061)	3,870	7.62
MW-20-100	17-Sep-02	2.82	3.32	ND (0.020)	0.011	0.206 J	---	---
	17-Sep-02 FD	2.58	3.22	ND (0.028)	0.013	0.486 J	---	---
	11-Dec-02	3.08	3.87	ND (0.020)	ND (0.028)	0.085	---	---
	20-Mar-03	2.91	2.64	ND (0.011)	ND (0.028)	0.153	---	---
	11-Jun-03	2.77	2.18	ND (0.010)	ND (0.026)	0.144	5,740	7.78
	09-Sep-03	2.74	2.63	ND (0.011)	ND (0.026)	0.061	5,470	7.80
	10-Dec-03	2.79	3.17	ND (0.010)	ND (0.020)	0.233	5,460	7.79
	03-Mar-04	2.89	2.40	---	---	---	---	---
	15-Mar-04	3.49	2.94	ND (0.010)	ND (0.020)	0.150 J	5,500	7.74
	11-May-04	4.74	3.96	---	---	---	---	---
	11-Jun-04	3.91	3.50	ND (0.010)	ND (0.020)	ND (0.056)	5,520	7.74
MW-20-130	17-Sep-02	6.62	7.09	ND (0.020)	0.032	0.203	---	---
	11-Dec-02	6.10	9.89	ND (0.020)	0.011 J	0.132	---	---
	20-Mar-03	6.30	5.16	ND (0.011)	ND (0.028)	0.176	---	---
	11-Jun-03	6.44	5.02	ND (0.010)	ND (0.026)	0.131	17,000	7.73
	09-Sep-03	6.08	6.00	ND (0.011)	ND (0.026)	ND (0.026)	16,400	7.79
	10-Dec-03	5.94	7.06	ND (0.010)	ND (0.020)	0.057	16,600	7.76
	03-Mar-04	6.05	5.26	---	---	---	---	---
	15-Mar-04	7.96	6.67	ND (0.010)	ND (0.020)	0.201	14,900	7.76
	11-May-04	7.71	7.26	---	---	---	---	---
	11-Jun-04	7.86	7.27	ND (0.010)	ND (0.020)	ND (0.100)	12,000	7.75
MW-21	18-Sep-02	ND (0.010)	0.002	ND (0.020)	0.017	0.099	---	---
	11-Dec-02	ND (0.010)	0.007	ND (0.020)	0.017 J	0.337	---	---
	21-Mar-03	ND (0.010)	0.011	ND (0.011)	0.026 J	0.364	---	---
	12-Jun-03	ND (0.010)	0.002 J	0.013	0.034	0.456	13,800	7.52
	10-Sep-03	ND (0.0002) +	ND (0.001)	0.039	0.026 J	0.068	13,220	7.22
	04-Nov-03	ND (0.0002) +	ND (0.001)	---	---	---	---	---
	11-Dec-03	ND (0.0002) +	0.003	0.024	0.020	0.287	13,000	7.16
	14-Jan-04	ND (0.0002) +	ND (0.001)	---	---	---	---	---
	26-Feb-04	ND (0.001) J	ND (0.001)	---	---	---	---	---
	16-Mar-04	ND (0.0002) J	ND (0.001)	0.052	0.060	0.692	12,900	7.28
	14-Apr-04	ND (0.002) J	ND (0.008)	---	---	---	---	---
	11-May-04	ND (0.001) J	ND (0.001) J	---	---	---	---	---
	08-Jun-04	ND (0.001) J	ND (0.001)	0.018	0.158	ND (0.097)	11,210	7.69

Table 3
Groundwater COC Sampling Results
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (µS/cm)	pH
MW-22	19-Sep-02	ND (0.010)	0.014	ND (0.020)	0.020	0.119	---	---
	12-Dec-02	ND (0.010)	0.004	ND (0.020)	0.018 J	0.118	---	---
	19-Mar-03	ND (0.010)	0.017	ND (0.011)	ND (0.028)	0.160	---	---
	10-Jun-03	ND (0.010)	0.005 J	ND (0.010)	0.028	0.118	23,200	7.12
	10-Sep-03	ND (0.0002)	0.002	ND (0.011)	0.027	0.029	28,600	6.89
	11-Dec-03	ND (0.0002)	0.010	ND (0.010)	ND (0.020)	0.062	29,200	6.95
	19-Mar-04	ND (0.005)	0.002	ND (0.010)	ND (0.020)	0.058	26,600	6.96
	07-Jun-04	ND (0.002)	0.002	ND (0.010)	ND (0.020)	ND (0.049)	25,300	7.04
MW-23	18-Sep-02	ND (0.010)	0.007	ND (0.020)	0.031	0.221	---	---
	11-Dec-02	ND (0.010)	0.009	ND (0.020)	0.032	0.817	---	---
	21-Mar-03	ND (0.010)	0.012	ND (0.011)	0.030	0.531	---	---
	12-Jun-03	ND (0.010)	0.001 J	ND (0.010)	0.035	0.227	20,100	7.43
	10-Sep-03	ND (0.0002)	ND (0.001)	ND (0.011)	0.025 J	0.037	17,820	7.08
	11-Dec-03	ND (0.0002)	0.003	ND (0.010)	ND (0.020)	0.049	17,400	7.16
	16-Mar-04	0.003 J	ND (0.001)	ND (0.010)	ND (0.020)	0.080	17,400	7.24
	08-Jun-04	0.010	0.010	ND (0.010)	ND (0.020)	ND (0.041)	16,960	7.31
MW-24A	17-Sep-02	3.29	3.49	ND (0.020)	ND (0.005)	0.308	---	---
	11-Dec-02	3.40	4.10	ND (0.020)	ND (0.028)	0.122 J	---	---
	11-Dec-02 FD	3.43	4.16	ND (0.020)	ND (0.028)	0.069 J	---	---
	18-Mar-03	2.77	2.61	ND (0.011)	ND (0.028)	0.620	---	---
	12-Jun-03	2.64 J	2.51	ND (0.010)	ND (0.026)	0.326	4,030	7.85
	11-Sep-03	2.97	2.62	0.015	0.023 J	0.034	3,430	7.66
	11-Sep-03 FD	3.06	2.74	ND (0.011)	ND (0.026)	0.050	3,360	7.74
	10-Dec-03	2.99	3.32	ND (0.010)	ND (0.020)	0.064	3,350	7.74
	10-Dec-03 FD	3.03	4.08	ND (0.010)	ND (0.020)	0.061	3,310	7.74
	17-Mar-04	2.60	2.27	ND (0.010)	ND (0.020)	0.139 J	3,480	7.71
	17-Mar-04 FD	2.44	1.97	ND (0.010)	ND (0.020)	0.186	3,520	7.72
	08-Jun-04	2.66	2.39	ND (0.010)	ND (0.020)	ND (0.054)	3,450	7.85
MW-24B	10-Dec-02	4.62	5.38	ND (0.020)	ND (0.028)	0.300	---	---
	18-Mar-03	4.90	4.65	ND (0.011)	ND (0.028)	0.468	---	---
	12-Jun-03	4.79	5.57	ND (0.010)	0.031	0.307	14,500	7.94
	11-Sep-03	4.76	4.32	ND (0.011)	ND (0.026)	0.029	12,950	7.97
	10-Dec-03	4.84	6.05	ND (0.010)	ND (0.020)	0.044	12,700	7.99
	17-Mar-04	4.86	3.90	ND (0.010)	ND (0.020)	0.077	13,100	8.00
	08-Jun-04	5.19	4.91	ND (0.010)	ND (0.020)	ND (0.080)	13,250	7.78
MW-24BR	18-Sep-02	ND (0.010)	0.004	ND (0.020)	0.006	0.152	---	---
	12-Dec-02	ND (0.010)	0.003	ND (0.020)	ND (0.028)	0.066	---	---
	19-Mar-03	ND (0.010)	0.016	ND (0.011)	ND (0.028)	0.111	---	---
	13-Jun-03	ND (0.010)	0.003 J	ND (0.010)	ND (0.026)	0.126	14,500	8.29
	12-Sep-03	ND (0.0002)	0.004 J	ND (0.011)	ND (0.026)	0.072	14,000	8.59
	11-Dec-03	ND (0.0002)	0.005	ND (0.010)	ND (0.020)	ND (0.020)	14,000	8.60
	17-Mar-04	ND (0.001) J	0.005	ND (0.010)	ND (0.020)	0.146 J	13,800	8.19
	08-Jun-04	ND (0.001)	ND (0.001)	ND (0.010)	ND (0.020)	ND (0.074)	13,960	7.92
MW-25	17-Sep-02	2.56	2.79	ND (0.028)	0.021	0.145	---	---
	10-Dec-02	2.43	3.22	ND (0.020)	ND (0.028)	0.167	---	---
	21-Mar-03	2.53	2.13	ND (0.011)	ND (0.028)	0.325	---	---

Table 3
Groundwater COC Sampling Results
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance ($\mu\text{S}/\text{cm}$)	pH
MW-25	12-Jun-03	2.44	2.72	ND (0.010)	ND (0.026)	0.334 J	2,180	7.94
	12-Jun-03 FD	2.48	3.41	ND (0.010)	ND (0.026)	0.555 J	2,020	7.82
	12-Sep-03	2.35	2.08	ND (0.011)	ND (0.026)	0.077	1,660	7.58
	12-Dec-03	2.21	3.22	ND (0.010)	ND (0.020)	0.025	1,660	7.62
	03-Mar-04	2.27	2.02	---	---	---	---	---
	17-Mar-04	2.18	1.92	ND (0.010)	ND (0.020)	0.078	1,740	7.55
	17-Mar-04 FD	2.44	1.94	ND (0.010)	ND (0.020)	0.076	1,780	7.54
	14-May-04	2.30	1.97	---	---	---	---	---
	09-Jun-04	2.26	2.15	ND (0.010)	ND (0.020)	ND (0.063)	1,700	7.38
MW-26	18-Sep-02	3.72	3.11	ND (0.028)	0.018	0.218	---	---
	11-Dec-02	3.86	5.02	ND (0.020)	ND (0.028)	0.144	---	---
	20-Mar-03	3.28	2.75	ND (0.011)	ND (0.028)	0.514	---	---
	20-Mar-03 FD	3.28	2.79	ND (0.011)	ND (0.028)	0.356	---	---
	11-Jun-03	3.68	3.11	ND (0.010)	ND (0.026)	0.081	3,620	7.77
	09-Sep-03	3.51	3.34	ND (0.011)	ND (0.026)	0.024 J	3,460	7.49
	10-Dec-03	3.89	5.00	ND (0.010)	ND (0.020)	0.436	3,570	7.67
	03-Mar-04	3.72	3.15	---	---	---	---	---
	16-Mar-04	3.97	3.58	ND (0.010)	ND (0.020)	0.167	3,540	7.62
	14-May-04	4.06	4.24	---	---	---	---	---
	08-Jun-04	3.89	3.65	ND (0.010)	ND (0.020)	ND (0.077)	3,640	7.52
	08-Jun-04 FD	4.00	3.61	ND (0.010)	ND (0.020)	ND (0.067)	3,580	7.61
MW-27	19-Sep-02	ND (0.010)	ND (0.001)	ND (0.020)	ND (0.005)	0.164	---	---
	12-Dec-02	ND (0.010)	0.006	ND (0.020)	ND (0.028)	0.213	---	---
	19-Mar-03	ND (0.010)	0.012	ND (0.011)	ND (0.028)	0.105	---	---
	10-Jun-03	ND (0.010)	0.010	ND (0.010)	ND (0.026)	0.285	958	7.64
	10-Sep-03	ND (0.0002)	ND (0.001)	ND (0.011)	ND (0.026)	0.023 J	958	7.60
	04-Nov-03	ND (0.0002)	ND (0.001)	---	---	---	---	---
	11-Dec-03	ND (0.0002)	0.001	ND (0.010)	ND (0.020)	ND (0.020)	978	7.70
	13-Jan-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	29-Jan-04	ND (0.0002)	0.002	---	---	---	---	---
	05-Feb-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	12-Feb-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	19-Feb-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	26-Feb-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	03-Mar-04	ND (0.0002)	0.002	---	---	---	---	---
	10-Mar-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	17-Mar-04	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	ND (0.194)	963	7.64
	24-Mar-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	31-Mar-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	07-Apr-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	13-Apr-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	21-Apr-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	28-Apr-04	ND (0.0002)	ND (0.001) J	---	---	---	---	---
	05-May-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	12-May-04	ND (0.001)	ND (0.001)	---	---	---	---	---
	19-May-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	26-May-04	ND (0.0002)	ND (0.001)	---	---	---	---	---

Table 3
Groundwater COC Sampling Results
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (µS/cm)	pH
MW-27	02-Jun-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	08-Jun-04	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	ND (0.035)	929	7.61
MW-28-25	19-Sep-02	ND (0.010)	0.004	ND (0.020)	ND (0.005)	0.097	---	---
	12-Dec-02	ND (0.010)	0.004	ND (0.020)	ND (0.028)	0.124	---	---
	20-Mar-03	ND (0.010)	0.012	ND (0.011)	ND (0.028)	0.286	---	---
	10-Jun-03	ND (0.010)	0.012	ND (0.010)	ND (0.026)	0.055	1,820	7.56
	10-Sep-03	ND (0.0002)	ND (0.001)	ND (0.011)	ND (0.026)	0.039 J	1,290	7.56
	10-Sep-03 FD	ND (0.0002)	ND (0.001)	ND (0.011)	ND (0.026)	0.124	1,290	7.54
	04-Nov-03	ND (0.0002)	ND (0.001)	---	---	---	---	---
	11-Dec-03	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	0.057	1,330	7.58
	13-Jan-04	ND (0.0002)	0.002	---	---	---	---	---
	29-Jan-04	ND (0.0002)	0.002	---	---	---	---	---
	05-Feb-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	12-Feb-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	20-Feb-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	26-Feb-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	04-Mar-04	ND (0.0002)	ND (0.002)	---	---	---	---	---
	10-Mar-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	17-Mar-04	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	ND (0.168)	2,050	7.56
	24-Mar-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	31-Mar-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	07-Apr-04	ND (0.0002)	0.003	---	---	---	---	---
	13-Apr-04 J	ND (0.0008)	0.001	---	---	---	---	---
	21-Apr-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	28-Apr-04	ND (0.0002)	ND (0.001) J	---	---	---	---	---
	05-May-04	ND (0.0002)	ND (0.001) J	---	---	---	---	---
	11-May-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	20-May-04	ND (0.0002)	0.002	---	---	---	---	---
	26-May-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	02-Jun-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	07-Jun-04	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	ND (0.048)	1,340	7.54
MW-28-90	29-Apr-04	ND (0.001)	0.002	---	---	---	9,900	---
	10-Jun-04	ND (0.001)	ND (0.001)	---	---	---	---	---
MW-29	19-Sep-02	ND (0.010)	0.008	ND (0.020)	0.020	0.125	---	---
	11-Dec-02	ND (0.010)	0.013	ND (0.020)	0.013 J	0.145	---	---
	20-Mar-03	ND (0.010)	0.019	ND (0.011)	ND (0.028)	0.356	---	---
	11-Jun-03 J	ND (0.010)	0.003 J	ND (0.010)	ND (0.026)	0.101	5,030	7.39
	10-Sep-03 +	ND (0.0002)	ND (0.001)	ND (0.011)	ND (0.026)	0.023 J	3,960	7.28
	11-Dec-03 +	ND (0.0002)	ND (0.001)	0.016	ND (0.020)	0.055	5,880	7.28
	19-Feb-04 J	ND (0.0002)	ND (0.002)	---	---	---	---	---
	18-Mar-04	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	0.355	8,210	7.28
	13-Apr-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	11-May-04	ND (0.0002)	0.003	---	---	---	---	---
	09-Jun-04	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	ND (0.070)	2,860	7.62
MW-30-30	19-Sep-02	ND (0.010)	ND (0.001)	ND (0.020)	0.007	0.042	---	---
	12-Dec-02	ND (0.010)	0.004	ND (0.020)	0.035	0.096	---	---

Table 3
Groundwater COC Sampling Results
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (µS/cm)	pH
MW-30-30	20-Mar-03	ND (0.010)	0.026	ND (0.011)	0.023 J	0.597	---	---
	10-Jun-03	ND (0.010)	0.006	ND (0.010)	0.040	0.110	35,300	7.06
	10-Sep-03	ND (0.0002) +	0.002	ND (0.011)	0.040	0.070	51,300	6.97
	04-Nov-03	ND (0.0002) +	ND (0.001)	---	---	---	---	---
	11-Dec-03	ND (0.0002) +	0.005	ND (0.010)	ND (0.020)	ND (0.020)	48,300	7.06
	14-Jan-04	ND (0.0002) +	0.002	---	---	---	---	---
	29-Jan-04	ND (0.0002) +	ND (0.001)	---	---	---	---	---
	05-Feb-04	ND (0.0002) +	ND (0.001)	---	---	---	---	---
	12-Feb-04	ND (0.0002) R	ND (0.001)	---	---	---	---	---
	19-Feb-04	ND (0.0002) +	ND (0.002)	---	---	---	---	---
	26-Feb-04	ND (0.001)	ND (0.001)	---	---	---	---	---
	04-Mar-04	ND (0.005)	ND (0.001)	---	---	---	---	---
	11-Mar-04	ND (0.005) J	ND (0.002)	---	---	---	---	---
	18-Mar-04	ND (0.005)	ND (0.001)	ND (0.010)	ND (0.020)	0.061	43,200	6.98
	24-Mar-04	ND (0.005)	ND (0.001)	---	---	---	---	---
	31-Mar-04	ND (0.010)	0.001	---	---	---	---	---
	07-Apr-04	ND (0.005) J	0.001	---	---	---	---	---
	14-Apr-04	ND (0.004) J	ND (0.001)	---	---	---	---	---
	21-Apr-04	ND (0.007)	0.002	---	---	---	---	---
	28-Apr-04	ND (0.005)	0.001	---	---	---	---	---
	05-May-04	ND (0.005)	ND (0.001)	---	---	---	---	---
	12-May-04	ND (0.005)	ND (0.001)	---	---	---	---	---
	20-May-04	ND (0.005)	0.002	---	---	---	---	---
	26-May-04	ND (0.005)	0.002	---	---	---	---	---
	03-Jun-04	ND (0.005)	0.001	---	---	---	---	---
	09-Jun-04	ND (0.005)	ND (0.001)	ND (0.010)	ND (0.020)	ND (0.043)	34,500	7.53
MW-30-50	19-Mar-03	3.40	3.14	ND (0.011)	ND (0.028)	0.092	---	---
	20-Mar-03	3.76	3.34	---	---	---	---	---
	10-Jun-03	2.71	2.60	ND (0.010)	ND (0.026)	0.074 J	9,330	7.58
	10-Jun-03 FD	2.77	2.72	ND (0.010)	ND (0.026)	0.146 J	9,140	7.46
	10-Sep-03	0.091	0.175	0.039	ND (0.026)	0.365	9,240	7.24
	04-Nov-03	ND (0.0002) +	ND (0.001)	---	---	---	---	---
	04-Nov-03 FD	ND (0.0002) +	ND (0.001)	---	---	---	---	---
	12-Dec-03	ND (0.0002) +	0.008 J	ND (0.010)	ND (0.020)	0.047 J	3,160	7.68
	12-Dec-03 FD	ND (0.0002) +	0.005 J	ND (0.010)	ND (0.020)	ND (0.020) J	3,140	7.84
	14-Jan-04	ND (0.0002)	0.004	---	---	---	---	---
	29-Jan-04	ND (0.0002) +	0.003	---	---	---	---	---
	05-Feb-04	ND (0.0002) +	ND (0.001)	---	---	---	---	---
	12-Feb-04	ND (0.0002) R	ND (0.001)	---	---	---	---	---
	19-Feb-04	0.384	0.333	---	---	---	---	---
	26-Feb-04	ND (0.001) J	ND (0.001)	---	---	---	---	---
	05-Mar-04	0.083	0.041	---	---	---	---	---
	05-Mar-04 FD	0.104	0.061	---	---	---	---	---
	11-Mar-04	0.984	0.744	---	---	---	---	---
	18-Mar-04	1.65	1.41	ND (0.010)	ND (0.020)	0.098 J	9,990	7.32
	18-Mar-04 FD	1.52	1.30	ND (0.010)	ND (0.020)	0.055 J	9,970	7.32
	25-Mar-04	2.31	2.24	---	---	---	---	---

Table 3
Groundwater COC Sampling Results
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (µS/cm)	pH
MW-30-50	01-Apr-04	2.08	1.82	---	---	---	---	---
	08-Apr-04	1.74	1.70	---	---	---	---	---
	08-Apr-04 FD	1.75	1.68	---	---	---	---	---
	15-Apr-04	1.98	2.13	---	---	---	---	---
	15-Apr-04 FD	1.92	2.05	---	---	---	---	---
	22-Apr-04	1.95 J	1.87	---	---	---	---	---
	29-Apr-04	1.81	1.93	---	---	---	---	---
	06-May-04	1.97	2.08	---	---	---	---	---
	14-May-04	2.01	1.73	---	---	---	---	---
	14-May-04 FD	1.87	1.65	---	---	---	---	---
	20-May-04	1.72	1.86	---	---	---	---	---
	27-May-04	1.65	1.53	---	---	---	---	---
	03-Jun-04	1.96	2.07	---	---	---	---	---
	09-Jun-04	1.71	1.64	ND (0.010)	ND (0.020)	ND (0.067)	9,880	7.53
	09-Jun-04 FD	1.69	1.64	ND (0.010)	ND (0.020)	ND (0.063)	9,950	7.41
MW-31-060	17-Sep-02	3.64	5.06	ND (0.028)	ND (0.006)	0.262	---	---
	11-Dec-02	3.88	5.62	ND (0.020)	ND (0.028)	0.274	---	---
	21-Mar-03	4.00	3.45	ND (0.011)	ND (0.028)	0.211	---	---
	11-Jun-03	3.57	3.16	ND (0.010)	ND (0.026)	0.149	3,150	7.70
	09-Sep-03	3.55	3.46	ND (0.011)	ND (0.026)	0.025 J	2,960	7.72
	10-Dec-03	3.66	5.01	ND (0.010)	ND (0.020)	0.021	2,980	7.68
	03-Mar-04	3.97	3.37	---	---	---	---	---
	16-Mar-04	4.45	3.23	ND (0.010)	ND (0.020)	0.178	3,020	7.63
	14-May-04	3.61	3.80	---	---	---	---	---
	08-Jun-04	3.51	3.30	ND (0.010)	ND (0.020)	ND (0.064)	2,890	7.66
MW-31-135	16-Apr-04	0.331	0.378	---	---	---	11,800	---
	16-Apr-04 FD	0.354	0.396	---	---	---	---	---
	10-Jun-04	0.266	0.261	---	---	---	---	---
MW-32-20	19-Mar-03	ND (0.010)	0.013	ND (0.011)	ND (0.028)	0.066	---	---
	20-Mar-03	ND (0.010) J	0.012	---	---	---	---	---
	10-Jun-03	ND (0.010)	0.003 J	0.010	ND (0.026)	0.086	6,510	6.95
	10-Sep-03	ND (0.0002) +	ND (0.001)	ND (0.011)	ND (0.026)	0.036	6,610	6.78
	04-Nov-03	ND (0.0002) +	ND (0.001)	---	---	---	---	---
	11-Dec-03	ND (0.0002) +	0.006	ND (0.010)	ND (0.020)	0.081	11,500	7.03
	13-Jan-04	ND (0.0002) R	ND (0.001)	---	---	---	---	---
	18-Feb-04	ND (0.001)	ND (0.001)	---	---	---	---	---
	04-Mar-04	ND (0.001)	ND (0.002)	---	---	---	---	---
	18-Mar-04	ND (0.0002) J	ND (0.001)	ND (0.010)	ND (0.020)	0.084	9,300	6.85
	13-Apr-04	ND (0.0008) J	ND (0.001)	---	---	---	---	---
	12-May-04	ND (0.001)	ND (0.001)	---	---	---	---	---
	07-Jun-04	ND (0.001)	ND (0.001)	ND (0.010)	ND (0.020)	ND (0.052)	7,080	6.88
MW-32-35	19-Mar-03	ND (0.010)	0.014	ND (0.011)	ND (0.028)	0.297	---	---
	20-Mar-03	ND (0.010)	0.013	---	---	---	---	---
	10-Jun-03	ND (0.010)	0.004 J	ND (0.010)	ND (0.026)	0.329	7,540	7.31
	10-Sep-03	ND (0.0002) +	ND (0.001)	ND (0.011)	ND (0.026)	0.040	6,930	7.20
	04-Nov-03	ND (0.0002) +	ND (0.001)	---	---	---	---	---

Table 3
Groundwater COC Sampling Results
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance ($\mu\text{S}/\text{cm}$)	pH
MW-32-35	11-Dec-03	ND (0.0002) +	0.002	ND (0.010)	ND (0.020)	0.381	6,560	7.26
	13-Jan-04	ND (0.0002) R	0.013	---	---	---	---	---
	18-Feb-04	ND (0.0002) +	ND (0.001)	---	---	---	---	---
	04-Mar-04	ND (0.001)	ND (0.002)	---	---	---	---	---
	18-Mar-04	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	0.070	6,720	7.16
	13-Apr-04	ND (0.0008) J	0.002	---	---	---	---	---
	12-May-04	ND (0.001)	ND (0.001)	---	---	---	---	---
	08-Jun-04	ND (0.001)	ND (0.001)	ND (0.010)	ND (0.020)	ND (0.026)	6,990	7.17
MW-33-40	19-Mar-03	ND (0.010)	0.015	ND (0.011)	ND (0.028)	0.090	---	---
	20-Mar-03	ND (0.010)	0.015	---	---	---	---	---
	11-Jun-03	ND (0.010) J	0.003 J	ND (0.010)	ND (0.026)	0.171	4,190	8.62
	10-Sep-03	ND (0.0002) +	ND (0.001)	0.019	ND (0.026)	ND (0.026)	14,880	7.84
	04-Nov-03	ND (0.0002) +	ND (0.001)	---	---	---	---	---
	11-Dec-03	ND (0.0002) +	0.004	ND (0.010)	ND (0.020)	0.033	14,200	7.73
	13-Jan-04	ND (0.0002) R	0.002	---	---	---	---	---
	19-Feb-04	ND (0.0002) +	ND (0.002)	---	---	---	---	---
	18-Mar-04	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	0.040	5,420	8.29
	14-Apr-04	ND (0.0008) J	ND (0.005)	---	---	---	---	---
	12-May-04	ND (0.001)	ND (0.001)	---	---	---	---	---
	09-Jun-04	ND (0.001)	ND (0.001)	ND (0.010)	ND (0.020)	ND (0.053)	3,970	8.44
MW-33-90	19-Mar-03	ND (0.010)	0.016	ND (0.011)	ND (0.028)	0.150	---	---
	20-Mar-03	ND (0.010)	0.015	---	---	---	---	---
	11-Jun-03	ND (0.010) J	0.003 J	0.306	ND (0.026)	0.315	8,240	8.36
	12-Sep-03	ND (0.0002)	0.002 J	ND (0.011)	ND (0.026)	0.112	8,910	7.76
	04-Nov-03	ND (0.0002) +	ND (0.001)	---	---	---	---	---
	13-Jan-04	0.0007 R	ND (0.001)	---	---	---	---	---
	17-Feb-04	0.014	0.012	---	---	---	---	---
	17-Feb-04 FD	0.014	0.011	---	---	---	---	---
	18-Mar-04	0.015	0.011	ND (0.010)	ND (0.020)	0.077	7,970	7.74
	14-Apr-04	0.012	0.012	---	---	---	---	---
	06-May-04	0.016 J	0.012	---	---	---	---	---
	06-May-04 FD	0.016 J	0.013	---	---	---	---	---
	13-May-04	0.016	0.014	---	---	---	---	---
	13-May-04 FD	0.015	0.013	---	---	---	---	---
	20-May-04	0.014	0.014	---	---	---	---	---
	20-May-04 FD	0.015	0.016	---	---	---	---	---
	26-May-04	0.014	0.015	---	---	---	---	---
	26-May-04 FD	0.013	0.014	---	---	---	---	---
	03-Jun-04	0.015	0.017	---	---	---	---	---
	03-Jun-04 FD	0.015	0.017	---	---	---	---	---
	10-Jun-04	0.014	0.017	ND (0.010)	ND (0.020)	ND (0.042)	6,560	8.01
MW-34-55	16-Jun-03	ND (0.010)	0.004 J	ND (0.010)	0.022 J	0.074	10,300	7.38
	17-Jun-03	ND (0.010)	0.004 J	ND (0.010)	0.020 J	0.163	11,000	7.51
	10-Sep-03	ND (0.0002) +	0.002	ND (0.011)	ND (0.026)	0.035	7,050	7.44
	04-Nov-03	ND (0.0002) +	ND (0.001)	---	---	---	---	---
	12-Dec-03	ND (0.0002) +	0.002	ND (0.010)	ND (0.020)	0.038	2,840	7.52

Table 3
Groundwater COC Sampling Results
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (µS/cm)	pH
MW-34-55	13-Jan-04	ND (0.0002) R	ND (0.001)	---	---	---	---	---
	29-Jan-04	ND (0.0002) +	0.001	---	---	---	---	---
	05-Feb-04	ND (0.0002) +	ND (0.001)	---	---	---	---	---
	12-Feb-04	ND (0.0002) R	ND (0.001)	---	---	---	---	---
	18-Feb-04	ND (0.0002) +	ND (0.001)	---	---	---	---	---
	26-Feb-04	ND (0.001) J	ND (0.001)	---	---	---	---	---
	04-Mar-04	ND (0.001)	ND (0.002)	---	---	---	---	---
	11-Mar-04	ND (0.001)	ND (0.001)	---	---	---	---	---
	17-Mar-04	ND (0.001) J	ND (0.001)	ND (0.010)	ND (0.020)	ND (0.083)	10,600	7.38
	24-Mar-04	ND (0.002)	0.007	---	---	---	---	---
	31-Mar-04	ND (0.001) J	ND (0.001)	---	---	---	---	---
	07-Apr-04	ND (0.001)	ND (0.001)	---	---	---	---	---
	15-Apr-04	ND (0.002) J	ND (0.001)	---	---	---	---	---
	22-Apr-04	ND (0.002) J	ND (0.001)	---	---	---	---	---
	29-Apr-04	ND (0.002)	ND (0.001)	---	---	---	---	---
	29-Apr-04 FD	ND (0.001)	ND (0.001)	---	---	---	---	---
	06-May-04	ND (0.001)	ND (0.001)	---	---	---	---	---
	13-May-04	ND (0.001)	ND (0.001)	---	---	---	---	---
	19-May-04	ND (0.001)	0.002	---	---	---	---	---
	27-May-04	ND (0.001)	ND (0.001)	---	---	---	---	---
	02-Jun-04	ND (0.001)	ND (0.001)	---	---	---	---	---
	08-Jun-04	ND (0.001)	ND (0.001)	ND (0.010)	ND (0.020)	ND (0.041)	9,460	7.43
MW-34-80	16-Jun-03	ND (0.010)	0.009	ND (0.010)	ND (0.026)	0.069	13,800	7.49
	17-Jun-03	ND (0.010)	0.003 J	ND (0.010)	0.022 J	0.085	14,800	7.57
	10-Sep-03	ND (0.0002) +	ND (0.001)	ND (0.011)	ND (0.026)	0.079	13,380	7.47
	04-Nov-03	ND (0.0002) +	ND (0.001)	---	---	---	---	---
	11-Dec-03	0.038	0.045	ND (0.010)	ND (0.020)	0.035	14,100	7.72
	13-Jan-04	0.005 R	0.014 J	---	---	---	---	---
	13-Jan-04 FD	0.003 R	0.009 J	---	---	---	---	---
	29-Jan-04	0.111	0.111	---	---	---	---	---
	29-Jan-04 FD	0.102	0.111	---	---	---	---	---
	05-Feb-04	0.010	0.012	---	---	---	---	---
	05-Feb-04 FD	0.013	0.015	---	---	---	---	---
	12-Feb-04	ND (0.0002) R	ND (0.001)	---	---	---	---	---
	12-Feb-04 FD	ND (0.0002) R	ND (0.001)	---	---	---	---	---
	18-Feb-04	0.020	0.016	---	---	---	---	---
	26-Feb-04	0.066 J	0.063	---	---	---	---	---
	26-Feb-04 FD	0.092	0.057	---	---	---	---	---
	05-Mar-04	0.026	0.026	---	---	---	---	---
	11-Mar-04	0.005	0.007	---	---	---	---	---
	11-Mar-04 FD	0.007	0.007	---	---	---	---	---
	17-Mar-04	0.006	0.006	ND (0.010)	ND (0.020)	ND (0.075)	13,900	7.61
	25-Mar-04	0.003 J	0.009 J	---	---	---	---	---
	25-Mar-04 FD	0.004	0.005 J	---	---	---	---	---
	01-Apr-04	0.002 J	0.004	---	---	---	---	---
	08-Apr-04	0.002 J	0.002	---	---	---	---	---
	16-Apr-04	0.0009	0.002	---	---	---	---	---

Table 3
Groundwater COC Sampling Results
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (µS/cm)	pH
MW-34-80	22-Apr-04	0.0008	0.001	---	---	---	---	---
	22-Apr-04 FD	0.0009	0.001	---	---	---	---	---
	29-Apr-04	ND (0.002)	ND (0.001) J	---	---	---	---	---
	06-May-04	ND (0.001)	0.001	---	---	---	---	---
	13-May-04	ND (0.001)	ND (0.001) J	---	---	---	---	---
	13-May-04 FD	ND (0.001)	ND (0.001)	---	---	---	---	---
	20-May-04	ND (0.001)	ND (0.001) J	---	---	---	---	---
	27-May-04	ND (0.001)	0.001	---	---	---	---	---
	02-Jun-04	ND (0.002)	ND (0.001)	---	---	---	---	---
	08-Jun-04	ND (0.001)	ND (0.001)	ND (0.010)	ND (0.020)	ND (0.048)	13,600	7.31
MW-35-060	15-Apr-04	0.005	0.005	---	---	---	5,880	---
	10-Jun-04	0.020	0.018	---	---	---	---	---
MW-35-135	15-Apr-04	ND (0.0008)	ND (0.001)	---	---	---	10,800	---
	10-Jun-04	0.011	0.013	---	---	---	---	---
MW-36-020	18-May-04	0.003	0.002	---	---	---	11,200	---
	15-Jun-04	ND (0.001)	ND (0.001)	---	---	---	---	---
MW-36-040	18-May-04	ND (0.001)	0.002	---	---	---	9,120	---
	16-Jun-04	ND (0.001)	ND (0.001)	---	---	---	---	---
MW-36-050	19-May-04	ND (0.001)	0.001	---	---	---	8,700	---
	17-Jun-04	ND (0.001)	ND (0.001)	---	---	---	---	---
MW-36-070	19-May-04	ND (0.001)	0.002	---	---	---	12,200	---
	17-Jun-04	ND (0.001)	0.001	---	---	---	---	---
MW-36-090	18-May-04	3.66	3.35	---	---	---	14,700	---
	15-Jun-04	3.27	3.45	---	---	---	---	---
MW-36-100	21-May-04	2.98	3.18	---	---	---	14,500	---
	15-Jun-04	2.80	2.49	---	---	---	---	---
MW-37D	19-May-04	0.930	0.960	---	---	---	12,700	---
	11-Jun-04	0.951	0.854	---	---	---	---	---
MW-37S	19-May-04	0.002	0.003	---	---	---	3,990	---
	19-May-04 FD	0.002	0.003	---	---	---	3,970	---
	10-Jun-04	0.003	0.003	---	---	---	---	---
MW-38D	05-May-04	0.033	0.030	---	---	---	17,900	---
	10-Jun-04	0.077	0.083	---	---	---	---	---
MW-38S	14-May-04	0.332	0.373	---	---	---	3,500	---
	11-Jun-04	0.509	0.493	---	---	---	---	---
MW-39-040	20-May-04	ND (0.001)	ND (0.001)	---	---	---	5,190	---
	18-Jun-04	ND (0.001)	ND (0.001)	---	---	---	---	---
MW-39-050	20-May-04	4.14	3.88	---	---	---	6,830	---
	18-Jun-04	3.48	3.92	---	---	---	---	---
MW-39-060	20-May-04	2.07	2.09	---	---	---	6,360	---
	18-Jun-04	3.54	3.55	---	---	---	---	---
	18-Jun-04 FD	3.48	3.58	---	---	---	---	---
MW-39-070	20-May-04	5.88	6.98	---	---	---	8,180	---

Table 3
Groundwater COC Sampling Results
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance ($\mu\text{S}/\text{cm}$)	pH
MW-39-070	18-Jun-04	8.21	8.49	---	---	---	---	---
MW-39-080	20-May-04	10.9	12.9	---	---	---	11,200	---
	17-Jun-04	10.00	10.3	---	---	---	---	---
MW-39-100	21-May-04	10.3 J	11.9	---	---	---	14,200	---
	21-May-04 FD	12.9 J	13.7	---	---	---	14,100	---
	15-Jun-04	12.5	11.5	---	---	---	---	---
	15-Jun-04 FD	12.3	12.1	---	---	---	---	---
MW-40D	10-May-04	0.038	0.039	---	---	---	12,300	---
	14-Jun-04	0.026	0.029	---	---	---	---	---
MW-40S	11-May-04	0.002	0.002	---	---	---	2,130	---
	15-Jun-04	0.005	0.005	---	---	---	---	---
Park-Moabi	18-Mar-03	ND (0.010)	0.011	ND (0.011)	ND (0.028)	0.303	---	---
	04-Nov-03	0.0003	0.001	---	---	---	---	---
	11-Dec-03	0.007	0.007	ND (0.010)	ND (0.020)	0.054	1,250	7.91
	16-Mar-04	0.003	0.002	ND (0.010)	ND (0.020)	0.075 J	1,260	7.87
	09-Jun-04	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	ND (0.118)	1,140	7.70
PGE-06	09-Sep-03	0.304	0.354	ND (0.011)	ND (0.026)	0.027	4,130	7.98
	09-Dec-03	0.671	0.776	ND (0.010)	ND (0.020)	0.092	4,220	7.71
PGE-07	10-Dec-03	4.74	6.78	0.019	ND (0.020)	0.125	14,300	8.08
PGE-08	09-Dec-03	ND (0.0002)	0.004	ND (0.010)	ND (0.020)	0.094	17,100	8.48
TW-01	24-Nov-03	3.94	4.20	---	---	---	5,750	7.97
	16-Dec-03	3.25	4.32	---	---	---	5,770	7.37
TW-2D	09-Jun-04	7.41	6.98	---	---	---	---	---
TW-2S	09-Jun-04	7.19	6.82	---	---	---	---	---

NOTES:

1. milligrams per liter (mg/L)
2. microSiemens per centimeter ($\mu\text{S}/\text{cm}$)
3. ND = not detected at listed reporting limit
J = concentration or reporting limit estimated by laboratory or data validation
R = result exceeded analytical criteria for precision and accuracy; should not be used for project decision-making
+ = the reporting limit (RL) for hexavalent chromium is estimated and might be as high as the total chromium RL
4. Hexavalent chromium analysis methods: SW 7196A (reporting limit 0.010 mg/L) and SW 7199 (reporting limit 0.0002 mg/L for undiluted samples).
5. Other analysis methods: total chromium (dissolved concentrations, Methods SW 6020A and SW 6010B), copper, nickel, zinc (dissolved concentrations, SW 6020A and SW 6010B), specific conductance (SW 9050), pH (SW 9040).
6. (---) = data not collected or not available
7. FD = field duplicate sample
8. The September 2003 total chromium (dissolved) results for samples: MW-16, MW-17, MW-21, MW-22, MW-23, MW-27, MW-28 (and MW-28 duplicate sample), MW-29, MW-30-30, MW-32-20, MW-32-35, MW-33-40, MW-34-55, and MW-34-80 are from laboratory re-analyses using Method SW 6010B
9. During the February 2004 monthly event, a sampling method comparison test was performed for 10 wells in the floodplain area. The results listed for this event are from samples collected using the well-volume sampling method

Table 4
Surface Water COC Sampling Results
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance ($\mu\text{S}/\text{cm}$)	pH
A-DOCK	08-Sep-03	ND (0.0002)	ND (0.001)	---	---	---	---	---
	17-Feb-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
CON	18-Sep-02	ND (0.010)	0.004	ND (0.020)	ND (0.005)	0.308	---	---
	12-Dec-02	ND (0.010)	0.007	ND (0.020)	ND (0.028)	0.174	---	---
	20-Mar-03	ND (0.010)	0.013	ND (0.011)	ND (0.028)	0.245	---	---
	11-Jun-03	ND (0.010)	0.003 J	ND (0.010)	ND (0.026)	0.127	988	8.31
	08-Sep-03	ND (0.0002)	ND (0.001)	ND (0.011)	ND (0.026)	0.063	930	8.10
	08-Dec-03	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	0.040	977	8.31
	17-Feb-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	15-Mar-04	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	0.097	990	8.23
	14-Apr-04	ND (0.0002)	ND (0.003)	---	---	---	---	---
	12-May-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
I-3	10-Jun-04	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	ND (0.029)	---	8.27
	18-Sep-02	ND (0.010)	0.004	ND (0.020)	ND (0.005)	0.096	---	---
	12-Dec-02	ND (0.010)	0.006	ND (0.020)	ND (0.028)	0.085	---	---
	19-Mar-03	ND (0.010)	0.014	ND (0.011)	ND (0.028)	0.063	---	---
	10-Jun-03	ND (0.010) J	0.003 J	ND (0.010)	ND (0.026)	0.094	969	8.27
	08-Sep-03	ND (0.0002)	ND (0.001)	ND (0.011)	ND (0.026)	0.158	936	8.11
	08-Dec-03	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	0.059	984	8.28
	16-Feb-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	15-Mar-04	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	0.144 J	997	8.23
	13-Apr-04	ND (0.0002)	0.002	---	---	---	---	---
NEEDLES-1	13-May-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	10-Jun-04	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	ND (0.024)	1,030	8.31
NR-1	08-Sep-03	ND (0.0002)	ND (0.001)	---	---	---	---	---
	16-Feb-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
NR-2	16-Mar-04	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	0.071	990	8.30
	13-Apr-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	13-May-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	11-Jun-04	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	ND (0.063)	1,040	7.88
	08-Sep-03	ND (0.0002)	ND (0.001)	---	---	---	---	---
	16-Feb-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
NR-3	16-Mar-04	ND (0.001)	ND (0.001)	ND (0.010)	ND (0.020)	0.061	988	8.32
	13-Apr-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	13-May-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	11-Jun-04	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	ND (0.097)	1,040	8.04
	17-Feb-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
R-22	16-Mar-04 J	ND (0.0002) J	ND (0.001)	ND (0.010)	ND (0.020)	0.287	986	8.32
	13-Apr-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	13-May-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	11-Jun-04	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	ND (0.092)	1,030	8.11
	18-Sep-02	ND (0.010)	0.003	0.119	0.024	0.226	---	---

Table 4
Surface Water COC Sampling Results
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (µS/cm)	pH
R-22	12-Dec-02	ND (0.010)	0.007	ND (0.020)	ND (0.028)	0.076	---	---
	19-Mar-03	ND (0.010)	0.013	ND (0.011)	ND (0.028)	0.159	---	---
	10-Jun-03	ND (0.010)	0.003 J	ND (0.010)	ND (0.026)	0.105	1,000	8.31
	10-Sep-03	ND (0.0002)	ND (0.001)	0.068	ND (0.026)	0.116	960	8.12
	08-Dec-03	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	0.066	986	8.30
	16-Feb-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	16-Feb-04 FD	ND (0.0002)	ND (0.001)	---	---	---	---	---
	15-Mar-04	ND (0.0002)	0.001	ND (0.010)	ND (0.020)	0.176	993	8.27
	14-Apr-04	ND (0.0002)	ND (0.004)	---	---	---	---	---
	12-May-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
R-27	10-Jun-04	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	ND (0.023)	1,030	8.25
	18-Sep-02	ND (0.010)	0.004	ND (0.020)	ND (0.005)	0.343	---	---
	12-Dec-02	ND (0.010)	0.007	ND (0.020)	ND (0.028)	0.135	---	---
	19-Mar-03	ND (0.010)	0.010	ND (0.011)	ND (0.028)	0.114	---	---
	10-Jun-03	ND (0.010)	0.003 J	ND (0.010)	ND (0.026)	0.174	952	8.31
	10-Sep-03	ND (0.0002)	ND (0.001)	ND (0.011)	ND (0.026)	0.091	960	8.17
	08-Dec-03	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	0.034	994	8.32
	16-Feb-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	03-Mar-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	15-Mar-04	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	0.122 J	988	8.27
	14-Apr-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	12-May-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
R-28	10-Jun-04	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	ND (0.022)	780	8.29
	18-Sep-02	ND (0.010)	0.019	ND (0.020)	0.030	1.06	---	---
	12-Dec-02	ND (0.010)	0.007	ND (0.020)	ND (0.028)	0.110	---	---
	20-Mar-03	ND (0.010)	0.015	ND (0.011)	ND (0.028)	0.324	---	---
	10-Jun-03	ND (0.010)	0.005	ND (0.010)	ND (0.026)	0.174	963	8.29
	10-Sep-03	ND (0.0002)	ND (0.001)	ND (0.011)	ND (0.026)	ND (0.026)	968	8.32
	08-Dec-03	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	0.031	998	8.38
	16-Feb-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	03-Mar-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	15-Mar-04	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	0.104 J	981	8.27
	14-Apr-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
RRB	14-Apr-04 FD	ND (0.0002)	ND (0.001)	---	---	---	---	---
	12-May-04	ND (0.0002)	ND (0.001)	---	---	---	---	---
	10-Jun-04	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	ND (0.025)	1,040	8.25

Table 4
Surface Water COC Sampling Results
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (μ S/cm)	pH
RRB	10-Jun-04	ND (0.0002)	ND (0.001)	ND (0.010)	ND (0.020)	ND (0.022)	990	8.31
Vernal-Pool	18-Sep-02	ND (0.010)	0.018	ND (0.020)	0.022	1.06	---	---

NOTES:

1. milligrams per liter (mg/L)
2. microSiemens per centimeter (μ S/cm)
3. ND = not detected at listed reporting limit
J = concentration or reporting limit estimated by laboratory or data validation
4. Hexavalent chromium analysis methods: SW 7196A (reporting limit 0.010 mg/L) and SW 7199 (reporting limit 0.0002 mg/L)
5. Other analysis methods: total chromium (dissolved concentrations, Methods SW 6020A and SW 6010B), copper, nickel, zinc (dissolved concentrations, SW 6020A and SW 6010B), specific conductance (SW 9050), pH (SW 9040)
6. (---) = data not collected or not available
7. FD = field duplicate sample

Table 5
General Chemistry Analytical Results, 2003-2004
PG&E Topock Groundwater Monitoring Program

Location	Sample Date	Total Dissolved Oxygen Solids																		Total Ortho-Organic Carbon																		Bicarb. (HCO3)		Carbon. (CaCO3)		Ammonia as Nitrogen Sulfide	
		18	Deuterium	Chloride	Sulfate	Nitrate	Fluoride	Bromide	phosphate	Barium	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium	Boron	Alkalinity	(HCO3)	(CaCO3)	as Nitrogen	Sulfide																					
Monitoring Wells																																											
MW-09	12-Jun-03	1940	---	---	592	238	8.6	ND (0.2)	---	ND (0.02)	1	ND (0.5)	235	ND (0.5)	61.4	ND (0.5)	17.8	397	---	121	148	ND (1)	ND (0.5)	---																			
	09-Jun-04	1900	-8.8	-56.0	780	250	9.1	ND (0.1)	---	ND (0.5)	ND (3)	0.056	221	ND (0.5)	47	ND (0.01)	12.5	396	---	120	120	ND (5)	ND (0.1)	ND (0.4)																			
MW-10	12-Jun-03	2250	---	---	732	433	16.1	11.7	---	ND (0.02)	4.7	ND (0.5)	120	ND (0.5)	19.7	ND (0.5)	15.5	773	---	253	309	ND (1)	ND (0.5)	---																			
	10-Jun-04	2300	-6.9	-52.0	740	420	15	10	---	ND (0.5)	ND (3)	0.038	134	ND (0.5)	16.2	ND (0.01)	22.4	808	1.57	240	240	ND (5)	ND (0.1)	ND (0.4)																			
MW-11	12-Jun-03	1540	---	---	418	344	8.6	0.73	---	ND (0.02)	J	ND (0.5)	ND (0.5)	172	ND (0.5)	22.2	ND (0.5)	11.6	305	---	103	126	ND (1)	ND (0.5)	---																		
	12-Jun-03 FD	1490	---	---	468	343	8.7	0.69	---	0.0418	J	0.56	ND (0.5)	174	ND (0.5)	21	ND (0.5)	11.3	346	---	103	126	ND (1)	ND (0.5)	---																		
	10-Jun-04	1600	-7	-54.0	460	320	8.3	0.6	---	ND (0.5)	ND (3)	0.041	197	ND (0.5)	19.1	ND (0.01)	9.16	326	0.395	100	100	ND (5)	ND (0.1)	ND (0.4)																			
MW-12	11-Jun-03	2340	---	---	1050	251	4.3	2.9	---	0.0315	1.1	ND (0.5)	9.07	ND (0.5)	2.05	ND (0.5)	7.62	910	---	222	264	3.6	ND (0.5)	---																			
	09-Jun-04	2600	-9.2	-62.0	1100	270	4.6	2.9	---	ND (0.5)	ND (3)	0.052	9.92	ND (0.5)	2.02	ND (0.01)	3.15	1030	0.762	200	200	ND (5)	ND (0.1)	0.8																			
	09-Jun-04 FD	2600	-9.3	-61.0	1200	260	4.6	2.9	---	ND (0.5)	ND (3)	0.056	9.95	ND (0.5)	1.97	ND (0.01)	3.22	993	0.746	200	200	ND (5)	ND (0.1)	ND (0.4)																			
MW-13	12-Jun-03	1220	---	---	500	166	4.2	1.2	---	ND (0.02)	0.77	ND (0.5)	112	ND (0.5)	14.6	ND (0.5)	10	311	---	80	97.6	ND (1)	ND (0.5)	---																			
	09-Jun-04	1300	-9.4	-62.0	500	150	4.4	1	---	ND (0.5)	ND (3)	0.057	124	ND (0.5)	13.3	ND (0.01)	5.47	300	---	79	79	ND (5)	ND (0.1)	ND (0.4)																			
MW-14	12-Jun-03	934	---	---	340	142	5.6	2	---	ND (0.02)	2.2	ND (0.5)	64.1	ND (0.5)	9.76	ND (0.5)	10.2	210	---	87	106	ND (1)	ND (0.5)	---																			
	08-Jun-04	860	-8.6	-64.0	310	140	5.5	1.8	---	ND (0.5)	ND (3)	0.11	66.5	ND (0.5)	9	ND (0.01)	6.43	237	---	89	89	ND (5)	ND (0.1)	ND (0.4)																			
	08-Jun-04 FD	880	-8.7	-66.0	310	140	5.5	1.8	---	ND (0.5)	ND (3)	0.1	73.3	ND (0.5)	9.1	ND (0.01)	6.93	262	---	88	88	ND (5)	ND (0.1)	ND (0.4)																			
MW-15	12-Jun-03	877	---	---	333	111	4.8	0.8	---	ND (0.02)	2.4	ND (0.5)	89.4	ND (0.5)	20.7	ND (0.5)	10.4	179	---	87	106	ND (1)	ND (0.5)	---																			
	07-Jun-04	960	-9.1	-65.0	330	110	4.6	0.4	---	ND (0.5)	ND (3)	0.052	95.3	ND (0.5)	22.5	ND (0.01)	6.96	170	---	81	81	ND (5)	ND (0.1)	ND (0.4)																			
MW-16	12-Jun-03	665	---	---	248	150	3.3	2.5	---	0.0289	3.1	ND (0.5)	29.3	ND (0.5)	5.22	ND (0.5)	5.37	215	---	109	133	ND (1)	ND (0.5)	---																			
	09-Jun-04	670	-9.1	-60.0	190	140	3.2	2.3	---	ND (0.5)	ND (3)	0.03	25.5	ND (0.5)	4.7	ND (0.01)	3.26	220	---	110	110	ND (5)	ND (0.1)	ND (0.4)																			
MW-17	07-Jun-04	1300	-8.4	-62.0	110	680	3.5	1.4	---	ND (0.5)	ND (3)	0.031	126	ND (0.5)	17.2	ND (0.01)	9.01	299	---	55	55	ND (5)	ND (0.1)	ND (0.4)																			
MW-18	12-Jun-03	814	---	---	327	84.6	3.9	0.71	---	ND (0.02)	0.54	ND (0.5)	88.7	ND (0.5)	13.3	ND (0.5)	9.9	160	---	85	104	ND (1)	ND (0.5)	---																			
	09-Jun-04	870	-9.3	-60.0	340	87	3.9	0.5	---	ND (0.5)	ND (3)	0.082	106	ND (0.5)	13.6	ND (0.01)	7.11	171	---	82	82	ND (5)	ND (0.1)	ND (0.4)																			
MW-19	11-Jun-03	1360	---	---	574	181	4.8	2.5	---	ND (0.02)	ND (0.5)	ND (0.5)	125	ND (0.5)	18.9	ND (0.5)	9.63	345	---	82	100	ND (1)	ND (0.5)	---																			
	08-Jun-04	1300	-8.6	-65.0	540	190	4.9	1.7	---	ND (0.5)	ND (3)	0.08	114	ND (0.5)	16.1	ND (0.01)	6.36	309	---	83	83	ND (5)	ND (0.1)	ND (0.4)																			
MW-20-070	11-Jun-03	2220	---	---	909	430	8.8	1.9	---	0.0264	0.98	ND (0.5)	245	ND (0.5)	60.6	ND (0.5)	14	462	---	73	89.1	ND (1)	ND (0.5)	---																			
	03-Mar-04	2300	-6.5	-39.0	890	440	9.7	---	0.6	---	---	---	230	---	52	---	11	480	0.3	75	75	ND (5)	---	---																			
	03-Mar-04 FD	2300	-6.5	-53.0	890	440	9.7	---	0.6	---	---	---	220	---	51	---	11	460	0.3	72	72	ND (5)	---	---																			
	11-May-04	2100	-5.5	-53.0	800	450	10	---	ND (0.5)	---	---	---	210	---	48	---	9.7	490	0.4	76	76	ND (5)	---	---																			
	11-Jun-04	---	---	---	---	---	---	---	---	ND (0.5)	ND (3)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND (0.1)	ND (0.4)								
MW-20-100	11-Jun-03	3440	---	---	1360	726	9.3	1.9	---	ND (0.02)	0.52	ND (0.5)	165	ND (0.5)	20.7	ND (0.5)	15.6	1050	---	80	97.6	ND (1)	ND (0.5)	---																			
	03-Mar-04	3400	-4.2	-38.0	1300	740	9.6	---	0.7	---	---	---	170	---	20	---	11	1100	1	82	82	ND (5)	---	---																			
	11-May-04	3600	-2.7	-37.0	1300	700	9.6	---	0.5	---	---	---	150	---	18	---	10	1100	1	81	81	ND (5)	---	---																			
	11-Jun-04	---	---	---	---	---	---	---	---	ND (0.5)	ND (3)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND (0.1)	ND (0.4)								
MW-20-130	11-Jun-03	10700	---	---	5790	967	6.1	3.6	---	ND (0.02)	1	ND (0.5)	418	ND (0.																													

Table 5
General Chemistry Analytical Results, 2003-2004
PG&E Topock Groundwater Monitoring Program

Location	Sample Date	Total Dissolved Oxygen Solids																							
		18	Deuterium	Chloride	Sulfate	Nitrate	Fluoride	Bromide	Ortho-phosphate	Total Organic Carbon	Barium	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium	Boron	Alkalinity	Bicarb. (HCO3)	Carbon. (CaCO3)	Ammonia as Nitrogen	Sulfide		
Monitoring Wells																									
MW-20-130	11-May-04	8300	-5	-49.0	3300	1000	9.8	---	ND (0.5)	---	---	280	---	14	---	26	2500	1.7	62	62	ND (5)	---	---		
	11-Jun-04	---	---	---	---	---	---	---	---	ND (0.5)	ND (3)	---	---	---	---	---	---	---	---	---	---	ND (0.1)	ND (0.4)		
MW-21	12-Jun-03	8880	---	---	2270	2500	0.35	2.3	---	0.0494	8.7	ND (0.5)	432	ND (0.5)	119	1.04	24.1	2330	---	456	556	ND (1)	ND (0.5)	---	
	08-Jun-04	9600	-8.9	-69.0	2500	2000	0.9	ND (0.1)	---	ND (5)	5.9	0.037	366	ND (0.5)	110	0.15	12	3250	---	470	470	ND (5)	ND (0.1)	ND (0.4)	
MW-22	10-Jun-03	15900	---	---	10000	1250	ND (2)	2.7	---	ND (0.02)	J	3.9	ND (0.5)	584	2.68	102	3.27	56.3	4870	---	314	383	ND (1)	0.84	---
	07-Jun-04	18000	-9.8	-76.0	8500	1400	ND (4)	1.4	---	ND (5)	5.9	0.11	634	4.13	125	3.9	27.2	6460	---	360	360	ND (5)	1.2	ND (0.4)	
MW-23	12-Jun-03	11000	---	---	5560	730	0.86	ND (1)	---	ND (0.02)	4.9	ND (0.5)	718	ND (0.5)	77.7	1.25	60.8	3360	---	117	143	ND (1)	ND (0.5)	---	
	08-Jun-04	10000	-8.9	-72.0	5700	690	3.6	ND (1)	---	ND (5)	ND (3)	0.089	204	ND (0.5)	77.1	0.48	28.4	989	---	82	82	ND (5)	ND (0.1)	ND (0.4)	
MW-24A	12-Jun-03	2040	---	---	754	310	15.1	4.8	---	ND (0.02)	1.2	ND (0.5)	67.3	ND (0.5)	11.7	ND (0.5)	12.3	700	---	166	202	ND (1)	ND (0.5)	---	
	08-Jun-04	2000	-9	-69.0	770	300	15	4.9	---	ND (5)	ND (3)	0.038	63	ND (0.5)	10.6	ND (0.01)	5.88	826	---	180	180	ND (5)	ND (0.1)	ND (0.4)	
MW-24B	12-Jun-03	8130	---	---	3350	1270	15.7	2.7	---	ND (0.02)	1.1	ND (0.5)	213	ND (0.5)	5.87	ND (0.5)	48.4	2840	---	52	63.4	ND (1)	ND (0.5)	---	
	08-Jun-04	9200	-6.1	-53.0	3600	1300	16	1.8	---	ND (5)	ND (3)	0.034	266	ND (0.5)	5.19	0.05	25.8	3560	---	51	51	ND (5)	ND (0.1)	ND (0.4)	
MW-24BR	13-Jun-03	8470	---	---	4590	409	ND (2)	5.2	---	ND (0.02)	6.14	ND (0.5)	110	ND (0.5)	3.55	ND (0.5)	36.4	2830	---	93	114	ND (1)	ND (0.5)	---	
	08-Jun-04	7800	-10.7	-82.0	4600	470	ND (4)	1.4	---	ND (5)	ND (3)	0.19	122	ND (0.5)	3.14	0.73	21.3	3820	---	50	50	ND (5)	ND (0.1)	0.5	
MW-25	12-Jun-03	1090	---	---	346	217	4.2	1.2	---	ND (0.02)	1.7	ND (0.5)	92	ND (0.5)	17	ND (0.5)	10.3	257	---	124	151	ND (1)	ND (0.5)	---	
	12-Jun-03 FD	1070	---	---	349	216	4.2	1.3	---	0.0213	1.5	ND (0.5)	113	ND (0.5)	18.9	ND (0.5)	11.3	270	---	124	151	ND (1)	ND (0.5)	---	
	03-Mar-04	970	-7.7	-56.0	300	220	4.2	---	ND (0.5)	---	---	---	92	---	18	---	7.8	230	0.4	140	140	ND (5)	---	---	
	14-May-04	1000	-8.9	-59.0	310	210	4.2	---	ND (0.5)	---	---	---	89	---	19	---	8	230	0.4	130	130	ND (5)	---	---	
	09-Jun-04	---	---	---	---	---	---	---	---	ND (0.5)	ND (3)	0.037	108	ND (0.5)	17.1	ND (0.01)	---	---	0.376	---	---	---	ND (0.1)	ND (0.4)	
MW-26	11-Jun-03	2100	---	---	852	423	5	0.32	---	0.0289	0.64	ND (0.5)	183	ND (0.5)	47.1	ND (0.5)	14.7	528	---	113	138	ND (1)	ND (0.5)	---	
	03-Mar-04	1900	-6.7	-54.0	770	400	4.6	---	ND (0.5)	---	---	---	170	---	40	---	12	470	0.5	110	110	ND (5)	---	---	
	14-May-04	9300	-8.4	-60.0	850	480	5.1	---	ND (0.5)	---	---	---	190	---	50	---	14	490	0.6	110	110	ND (5)	---	---	
	08-Jun-04	2300	---	---	---	---	---	---	---	ND (0.5)	---	---	---	---	---	---	---	---	---	---	---	---	ND (0.1)	ND (0.4)	
	08-Jun-04 FD	2200	---	---	---	---	---	---	---	ND (0.5)	---	---	---	---	---	---	---	---	---	---	---	---	ND (0.1)	ND (0.4)	
	29-Jul-04	---	---	---	---	---	---	---	---	---	3.5	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-27	10-Jun-03	587	---	---	114	160	ND (0.2)	0.46	---	0.0853	3.1	ND (0.5)	77.1	ND (0.5)	24.8	ND (0.5)	5.57	92.8	---	221	270	ND (1)	1.3	---	
	03-Mar-04	640	-11.7	-100.0	74	200	ND (0.4)	---	ND (0.5)	---	---	---	79	---	26	---	4	84	ND (0.2)	180	180	ND (5)	---	---	
	12-May-04	570	-11.3	-98.0	72	200	ND (0.4)	---	ND (0.5)	---	---	---	77	---	25	---	3.7	87	ND (0.2)	170	170	ND (5)	---	---	
	08-Jun-04	630	---	---	---	---	---	---	---	ND (0.5)	ND (3)	---	---	---	---	---	---	---	---	---	---	---	1.2	ND (0.4)	
MW-28-25	10-Jun-03	1120	---	---	294	250	ND (0.2)	0.68	---	0.0546	2.6	ND (0.5)	122	ND (0.5)	33.2	ND (0.5)	6.92	254	---	271	331	ND (1)	1.3	---	
	04-Mar-04	1000	-11.3	-95.0	220	290	ND (0.4)	---	ND (0.5)	---	---	---	120	---	33	---	3.8	210	0.2	260	260	ND (5)	---	---	
	11-May-04	800	-11.3	-95.0	110	270	ND (0.4)	---	ND (0.5)	---	---	---	110	---	29	---	3.9	120	ND (0.2)	240	240	ND (5)	---	---	
	07-Jun-04	890	-12.5	-100.0	150	220	ND (0.4)	0.2	---	ND (0.5)	ND (3)	---	---	---	---	---	---	---	---	---	---	---	0.9	ND (0.4)	
MW-28-90	29-Apr-04	6370 J	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	10-Jun-04	6200	-10.2	-76.0	2900	590	ND (0.4)	1.8	---	ND (0.5)	ND (3)	0.11	186	ND (0.5)	23.8	1.8	14.2	2190	---	80	80	ND (5)	ND (0.1)	ND (0.4)	

Table 5
General Chemistry Analytical Results, 2003-2004
PG&E Topock Groundwater Monitoring Program

Location	Sample Date	Total Dissolved Oxygen Solids 18 Deuterium Chloride Sulfate Nitrate Fluoride Bromide Ortho-phosphate Organic Carbon Barium Calcium Iron Magnesium Manganese Potassium Sodium Boron Alkalinity Bicarb. (HCO3) Carbon. (CaCO3) Ammonia as Nitrogen Sulfide																						
		18	Deuterium	Chloride	Sulfate	Nitrate	Fluoride	Bromide	Ortho-phosphate	Total Organic Carbon	Barium	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium	Boron	Alkalinity	Bicarb. (HCO3)	Carbon. (CaCO3)	Ammonia as Nitrogen	Sulfide	
Monitoring Wells																								
MW-29	11-Jun-03	4170	---	---	948	1130	ND (0.2)	0.42	---	0.334	17.8	ND (0.5)	240	ND (0.5)	143	0.819	12.2	900	---	489	597	ND (1)	0.89	---
	11-May-04	2000	-12	-97.0	460	470	ND (0.4)	---	ND (0.5)	---	---	110	---	76	---	5.9	550	0.7	610	610	ND (5)	---	---	
	09-Jun-04	1700	---	---	---	---	---	---	---	ND (0.5) J	---	---	---	---	---	---	---	---	---	---	---	---	2.9	ND (0.4)
	04-Aug-04	---	---	---	---	---	---	---	---	9.5	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-30-30	10-Jun-03	26200	---	---	12100	2800	ND (2)	ND (2)	---	0.16	38.6	ND (0.5)	851	ND (0.5)	801	0.944	85.2	7280	---	612	747	ND (1)	12.3	---
	04-Mar-04	36000	-9	-76.0	19000	4100	ND (4)	---	5.2	---	---	1000	---	1000	---	50	9600	3.6	570	570	ND (5)	---	---	
	12-May-04	30000	-7.8	-71.0	14000	3000	ND (4)	---	ND (50)	---	---	1300	---	800	---	47	8300	2.8	610	610	ND (5)	---	---	
	09-Jun-04	---	---	---	---	---	---	---	---	ND (5)	33	---	---	---	---	---	---	---	---	---	---	---	11	ND (0.4)
MW-30-50	10-Jun-03	5800	---	---	2810	716	3.7	ND (13.4)	---	ND (0.02)	2.3	ND (0.5)	277	ND (0.5)	89.9	ND (0.5)	23.5	1800	---	130	159	ND (1)	ND (0.5)	---
	10-Jun-03 FD	5790	---	---	2760	726	3.7	ND (13.8)	---	ND (0.02)	2.4	ND (0.5)	267	ND (0.5)	85.1	ND (0.5)	23.9	1990	---	131	160	ND (1)	ND (0.5)	---
	05-Mar-04	6100	-6.4	-58.0	3000	750	1.2	---	ND (5)	---	---	280	---	120	---	16	1600	0.9	280	280	ND (5)	---	---	
	05-Mar-04 FD	5900	-6.6	-56.0	2900	730	1.2	---	ND (5)	---	---	290	---	120	---	15	1600	0.9	280	280	ND (5)	---	---	
	14-May-04	6300	-7.7	-54.0	2700	800	3.5	---	ND (5)	---	---	270	---	100	---	15	1700	1.2	180	180	ND (5)	---	---	
	14-May-04 FD	6500	-7.5	-54.0	2600	800	3.5	---	ND (5)	---	---	270	---	110	---	16	1700	1.1	180	180	ND (5)	---	---	
	09-Jun-04	---	---	---	---	---	---	---	---	ND (0.5)	ND (3)	---	---	---	---	---	---	---	---	---	---	---	0.7	ND (0.4)
	09-Jun-04 FD	---	---	---	---	---	---	---	---	ND (0.5)	ND (3)	---	---	---	---	---	---	---	---	---	---	---	0.7	ND (0.4)
MW-31-060	11-Jun-03	1780	---	---	760	267	5.8	2	---	ND (0.02)	0.83	ND (0.5)	176	ND (0.5)	24.4	ND (0.5)	10.4	459	---	74	90.3	ND (1)	ND (0.5)	---
	03-Mar-04	1700	-8.1	-60.0	750	280	6.2	---	ND (0.5)	---	---	160	---	22	---	7.9	420	0.4	72	72	ND (5)	---	---	
	14-May-04	1900	-9	-59.0	750	260	5.5	---	ND (0.5)	---	---	150	---	22	---	7.5	420	0.4	74	74	ND (5)	---	---	
	08-Jun-04	---	---	---	---	---	---	---	---	ND (0.5)	ND (3)	---	---	---	---	---	---	---	---	---	---	---	ND (0.1)	ND (0.4)
MW-31-135	16-Apr-04	8070	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	10-Jun-04	8100	-10.1	-78.0	3700	530	0.7	3.1	---	ND (0.5)	ND (3)	0.067	338	ND (0.5)	16.5	0.13	17	3400	---	35	35	ND (5)	ND (0.1)	ND (0.4)
MW-32-20	10-Jun-03	3600	---	---	1980	17.9	ND (0.2)	ND (0.2)	---	0.093	14.2	5.14	310	6.08	154	ND (0.5)	21.2	867	---	578	705	ND (1)	9.5	---
	04-Mar-04	6200	-8	-64.0	2900	540	ND (0.4)	---	ND (5)	---	---	520	---	180	---	13	1500	1.1	570	570	ND (5)	---	---	
	12-May-04	5000	-7.1	-70.0	2100	130	ND (0.4)	---	ND (5)	---	---	510	---	180	---	16	1100	0.8	600	600	ND (5)	---	---	
	07-Jun-04	---	---	---	---	---	---	---	---	ND (0.5)	ND (3)	---	---	---	---	---	---	---	---	---	---	---	11	ND (0.4)
MW-32-35	10-Jun-03	4590	---	---	2320	421	ND (0.2)	ND (0.2)	---	0.0366	4.2	ND (0.5)	325	2.25	89.6	1.28	20.9	1140	---	308	376	ND (1)	1.9	---
	04-Mar-04	4200	-8	-65.0	1900	470	ND (0.4)	---	ND (5)	---	---	340	---	99	---	13	1100	1	310	310	ND (5)	---	---	
	12-May-04	4500	-6.9	-64.0	1900	460	ND (0.4)	---	ND (5)	---	---	330	---	94	---	12	1100	0.9	320	320	ND (5)	---	---	
	08-Jun-04	---	---	---	---	---	---	---	---	ND (0.5)	3.5	---	---	---	---	---	---	---	---	---	---	---	2.9	ND (0.4)
MW-33-40	11-Jun-03	2170	---	---	1030	233	0.57	8.2	---	0.075	1.4	ND (0.5)	7.74	ND (0.5)	4.21	ND (0.5)	3.34	846	---	161	184	6	ND (0.5)	---
	09-Jun-04	2500	-9.3	-62.0	---	---	---	---	---	ND (0.5)	ND (3)	0.021	9.93	ND (0.5)	6.54	0.02	1.1	1140	---	180	180	ND (5)	ND (0.1)	ND (0.4)
MW-33-90	11-Jun-03	4760	---	---	2590	394	ND (0.2)	3.4	---	ND (0.02)	5	ND (0.5)	233	ND (0.5)	25	ND (0.5)	19.8	1610	---	64	75.6	1.2	ND (0.5)	---
	10-Jun-04	4800	-10	-73.0	2400	400	1	2.7	---	ND (0.5)	ND (3)	0.069	272	ND (0.5)	23.8	0.03	10.6	1760	---	55	55	ND (5)	ND (0.1)	ND (0.4)
MW-34-55	16-Jun-03	6280	---	---	2740	821	ND (0.2)	1.3	---	ND (0.02)	4.3	ND (0.5)	377	2.68	95.9	ND (0.5)	30	1750	---	274	334	ND (1)	1.2	---

Table 5
General Chemistry Analytical Results, 2003-2004
PG&E Topock Groundwater Monitoring Program

Location	Sample Date	Total Dissolved Oxygen Solids 18 Deuterium Chloride Sulfate Nitrate Fluoride Bromide Ortho-phosphate Organic Carbon Barium Calcium Iron Magnesium Manganese Potassium Sodium Boron Alkalinity Bicarb. (HCO3) Carbon. (CaCO3) Ammonia as Nitrogen Sulfide																							
		18	Deuterium	Chloride	Sulfate	Nitrate	Fluoride	Bromide	Ortho-phosphate	Organic Carbon	Barium	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium	Boron	Alkalinity	Bicarb. (HCO3)	Carbon. (CaCO3)	Ammonia as Nitrogen	Sulfide		
Monitoring Wells																									
MW-34-55	04-Mar-04	6700	-9.6	-77.0	3200	850	ND (0.4)	---	ND (5)	---	---	360	---	97	---	13	2000	1.2	270	270	ND (5)	---	---		
	13-May-04	5700	-10.3	-77.0	2700	770	ND (0.4)	---	ND (5)	---	---	310	---	77	---	15	1900	1	270	270	ND (5)	---	---		
	08-Jun-04	---	---	---	---	---	---	---	ND (0.5)	ND (3)	0.083	246	ND (0.5)	68.3	0.29	---	---	1.18	---	---	---	1	ND (0.4)		
MW-34-80	16-Jun-03	8490	---	---	3830	1000	ND (1)	1.4	---	ND (0.02)	4.2	ND (0.5)	404	ND (0.5)	58.9	0.81	43.1	2430	---	272	332	ND (1)	ND (0.5)	---	
	05-Mar-04	8800	-8.9	-75.0	4700	1000	ND (0.4)	---	ND (5)	---	---	280	---	24	---	25	2600	1.7	180	180	ND (5)	---	---		
	13-May-04	8800	-10.2	-77.0	3900	1000	ND (4)	---	ND (5)	---	---	390	---	54	---	27	2800	1.4	270	270	ND (5)	---	---		
	13-May-04 FD	9100	-10.2	-76.0	4000	1000	ND (4)	---	ND (5)	---	---	390	---	53	---	27	2700	1.5	280	280	ND (5)	---	---		
	08-Jun-04	---	---	---	---	---	---	---	ND (0.5)	ND (3)	0.051	396	ND (0.5)	56.6	0.3	---	---	1.72	---	---	---	ND (0.1)	ND (0.4)		
MW-35-060	15-Apr-04	3480	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	10-Jun-04	4100	-10.1	-72.0	1700	270	1.8	1.5	---	ND (0.5)	ND (3)	0.1	294	ND (0.5)	36.2	0.03	11.2	1140	---	76	76	ND (5)	ND (0.1)	ND (0.4)	
MW-35-135	15-Apr-04	7220	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	10-Jun-04	7600	-10.8	-84.0	3200	940	2	1.3	---	ND (0.5)	ND (3)	0.064	434	ND (0.5)	47.6	0.23	16.6	2750	---	50	50	ND (5)	ND (0.1)	ND (0.4)	
MW-36-020	18-May-04	6960	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	15-Jun-04	6600	-10.1	-74.0	2900	660	ND (0.4)	2.1	---	ND (5)	4.9	0.128	406	0.5	69.9	0.5	27.1	1410	---	270	270	ND (5)	1.7	ND (0.4)	
MW-36-040	18-May-04	5750	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	16-Jun-04	5800	-10.1	-74.0	2500	640	ND (0.4)	2.1	---	ND (5)	5.1	0.158	402	0.5	55.5	0.511	24.5	1260	---	230	230	ND (5)	1.7	ND (0.4)	
MW-36-050	19-May-04	5380	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	17-Jun-04	5300	-10	-74.0	2400	590	ND (0.4)	2	---	ND (0.5)	ND (3)	0.0751	297	0.5	57.1	0.723	29.8	1140	---	190	190	ND (5)	0.5	ND (0.4)	
MW-36-070	19-May-04	7640	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	17-Jun-04	7600	-9.8	-71.0	3600	840	ND (0.4)	1.7	---	ND (0.5)	3.9	0.0754	448	0.5	94.9	2.49	47.8	1420	---	270	270	ND (5)	0.9	ND (0.4)	
MW-36-090	18-May-04	9570	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	15-Jun-04	9800	-8.9	-63.0	4400	990	2.5	2.5	---	ND (5)	ND (3)	0.0387	512	0.5	25.4	0.5	62.9	2410	---	95	95	ND (5)	ND (0.1)	ND (0.4)	
MW-36-100	21-May-04	9550	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	15-Jun-04	9500	-9.4	-65.0	4500	990	2.8	2.8	---	ND (5)	ND (3)	0.0546	500	0.5	21	0.949	66.8	2470	---	75	75	ND (5)	ND (0.1)	ND (0.4)	
MW-37D	19-May-04	7920	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	11-Jun-04	8900	-9.3	-72.0	3800	620	2.1	2.6	---	ND (0.5)	5.3	0.055	384	ND (0.5)	19.1	0.09	16.9	3650	1.65	46	46	ND (5)	ND (0.1)	ND (0.4)	
MW-37S	19-May-04	2240	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	19-May-04 FD	2270	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	10-Jun-04	2400	-9.7	-70.0	1100	210	1.3	2.4	---	ND (0.5)	ND (3)	0.11	144	ND (0.5)	19.9	0.22	8.63	701	---	69	69	ND (5)	ND (0.1)	ND (0.4)	
MW-38D	05-May-04	14000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	10-Jun-04	13000	-10	-76.0	6500	750	1.3	3	---	ND (5)	ND (3)	0.069	392	ND (0.5)	6.44	0.09	36	5790	---	33	33	ND (5)	0.1	ND (0.4)	
MW-38S	14-May-04	2310	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	11-Jun-04	2400	-6.3	-47.0	770	500	9.7	6.9	---	ND (0.5)	ND (3)	0.038	154	ND (0.5)	21.5	0.12	9.47	860	---	210	210	ND (5)	0.1	ND (0.4)	
MW-39-040	20-May-04	3360	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	18-Jun-04	3500	-5.5	-45.0	1400	580	ND (0.4)	J	3	---	ND (5)	ND (3)	0.057	232	0.5	16.8	0.5	26.7	808	---	140	140	ND (5)	1.3	ND (0.4)

Table 5
General Chemistry Analytical Results, 2003-2004
PG&E Topock Groundwater Monitoring Program

Location	Sample Date	Total Dissolved Oxygen Solids 18 Deuterium Chloride Sulfate Nitrate Fluoride Bromide Ortho-phosphate Organic Carbon Barium Calcium Iron Magnesium Manganese Potassium Sodium Boron Alkalinity Bicarb. (HCO3) Carbon. (CaCO3) Ammonia as Nitrogen Sulfide																							
		18	Deuterium	Chloride	Sulfate	Nitrate	Fluoride	Bromide	Ortho-phosphate	Total Organic Carbon	Barium	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium	Boron	Alkalinity	Bicarb. (HCO3)	Carbon. (CaCO3)	Ammonia as Nitrogen	Sulfide		
Monitoring Wells																									
MW-39-050	20-May-04	4440	---	---	---	---	---	---	---	ND (5)	ND (3)	0.0398	295	0.5	38	0.5	23.6	824	---	91	91	ND (5)	ND (0.1)	ND (0.4)	
	18-Jun-04	4300	-4.9	-44.0	1800	780	6.3 J	2.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
MW-39-060	20-May-04	4080	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	18-Jun-04	4300	-4.6	-42.0	1700	790	6.3 J	2.8	---	ND (5)	ND (3)	0.0347	270	0.5	34.8	0.5	23.4	778	---	83	83	ND (5)	0.2	ND (0.4)	
	18-Jun-04 FD	4200	-4.2	-37.0	1700	790	6.2 J	2.8	---	ND (5)	ND (3)	0.0375	269	0.5	38	0.5	23.9	689	---	83	83	ND (5)	0.2	ND (0.4)	
MW-39-070	20-May-04	5670	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	18-Jun-04	6100	-5	-44.0	2400	920	9 J	2.7	---	ND (5)	ND (3)	0.0287	425	0.5	36.5	0.5	35.7	1390	---	76	76	ND (5)	ND (0.1)	ND (0.4)	
MW-39-080	20-May-04	7500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	17-Jun-04	6800	-5.9	-47.0	3000	1100	8.9	2.3	---	ND (0.5)	ND (3)	0.0221	441	0.5	35.6	0.5	42.9	1510	---	74	74	ND (5)	ND (0.1)	ND (0.4)	
MW-39-100	21-May-04	9810	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	21-May-04 FD	9890	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	15-Jun-04	9300	-6.5	-50.0	4100	1400	9.8	2.4	---	ND (5)	ND (3)	0.0233	577	0.5	22.7	0.5	68.5	2430	---	58	58	ND (5)	ND (0.1)	ND (0.4)	
	15-Jun-04 FD	9200	-6.2	-49.0	4100	1400	9.4	2.3	---	ND (5)	ND (3)	0.0233	584	0.5	24.3	0.5	69.6	2030	---	58	58	ND (5)	ND (0.1)	ND (0.4)	
MW-40D	10-May-04	7770	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	14-Jun-04	8500	-10.2	-77.0	4300	540	1	2.1	---	ND (5)	4.5	0.127	461	0.5	40.2	0.63	50.5	2290	---	57	57	ND (5)	ND (0.1)	ND (0.4)	
MW-40S	11-May-04	1190	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	15-Jun-04	1200	-9.4	-68.0	460	160	6.6	2.4	---	ND (0.5)	ND (3)	0.044	115	0.5	16.6	0.5	12	256	---	81	81	ND (5)	ND (0.1)	ND (0.4)	
Park-Moabi	09-Jun-04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	30-Jul-04	820	-8.4	-65.0	290	59	3.4	2.3	---	ND (0.5)	---	0.14	91	0.88	14.2	ND (0.01)	9.67	133	---	85	85	ND (5)	---	ND (0.4)	
	04-Aug-04	---	---	---	---	---	---	---	---	ND (0.5)	---	---	---	---	---	---	---	---	---	---	---	---	ND (0.5)		
Test Wells																									
TW-01	24-Nov-03	3870	---	---	1250	795	---	0.95	---	0.81	0.0512 ^	0.0512 ^	ND (0.1)	44 ^	0.00626 J^	21.4 ^	918 ^	---	132	132	ND (3)	0.09 J	---		
	16-Dec-03	3750	---	---	1130	---	---	2.1	---	---	---	---	---	---	---	---	---	2.12	---	---	---	---	---		
TW-2D	09-Jun-04	7540	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	16-Jun-04	7610	---	---	3460	802	---	ND (0.1)	---	---	ND (0.5)	ND (0.025) ^	ND (0.025) ^	ND (0.1)	17.8 ^	ND (0.01) ^	28.1 ^	2230 ^	---	56	56	---	---	ND (0.1)	
	29-Jul-04	7200	---	---	---	---	---	---	---	---	0.027	272	ND (0.5)	18	ND (0.01)	---	---	1.58	---	---	---	---	---	---	
TW-2S	09-Jun-04	2740	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	16-Jun-04	2450	---	---	810	330	---	2.94	---	0.61	0.0579 ^	0.0579 ^	ND (0.1)	39.8 ^	ND (0.01) ^	12.7 ^	491 ^	---	76	76	---	---	ND (0.1)	---	
	29-Jul-04	2200	---	---	---	---	---	---	---	0.063	155	ND (0.5)	40.2	ND (0.01)	---	---	0.366	---	---	---	---	---	---	---	
Surface Water Stations																									
CON	11-Jun-03	583	---	---	79.7	234	0.37	0.37	---	ND (0.02)	3.3	ND (0.5)	77	ND (0.5)	27.9	ND (0.5)	5.54	86.1	---	137	167	ND (1)	ND (0.5)	---	
	10-Jun-04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
I-3	10-Jun-03	602	---	---	78.8	222	0.36	0.34	---	ND (0.02)	J	3.2	ND (0.5)	75.2	ND (0.5)	28	ND (0.5)	5.89	114	---	137	167	ND (1)	ND (0.5)	---
	10-Jun-04	610	-12.1	-98.0	83	240	ND (0.4)	0.3	---	ND (0.5)	3.8	0.17	98.8	ND (0.5)	27.6	ND (0.01)	4.08	93.9	---	140	140	ND (5)	ND (0.1)	1.3	
NR-1	11-Jun-04	620	-11.8	-95.0	84	240	ND (0.4)	0.3	---	ND (0.5)	ND (3)	0.14	92.7	ND (0.5)	27.5	ND (0.01)	4.21	126	---	140	140	ND (5)	ND (0.1)	ND (0.4)	

Table 5
General Chemistry Analytical Results, 2003-2004
PG&E Topock Groundwater Monitoring Program

Location	Sample Date	Total Dissolved Oxygen Solids																		Ortho-Fluoride	Total Organic Carbon	Barium	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium	Boron	Alkalinity	Bicarb. (HCO3)	Carbon. (CaCO3)	Ammonia as Nitrogen	Sulfide
		18	Deuterium	Chloride	Sulfate	Nitrate	Bromide	phosphate	ND (0.02)	3.3	ND (0.5)	71.7	ND (0.5)	26.8	ND (0.5)	5.31	88.5	---	137	167	ND (1)	ND (0.5)	---											
Surface Water Stations																																		
R-27	10-Jun-03	595	---	---	80.7	222	0.35	0.35	---	ND (0.02)	3.3	ND (0.5)	71.7	ND (0.5)	26.8	ND (0.5)	5.31	88.5	---	137	167	ND (1)	ND (0.5)	---										
	03-Mar-04	630	-11.4	-86.0	87	250	ND (0.4)	---	ND (0.5)	---	---	---	77	---	28	---	4.4	94	ND (0.2)	140	140	ND (5)	---	---										
	12-May-04	590	-11.4	-96.0	84	240	ND (0.4)	---	ND (0.5)	---	---	---	74	---	27	---	4.8	96	ND (0.2)	140	140	ND (5)	---	---										
	10-Jun-04	---	---	---	---	---	---	---	---	ND (0.5)	3.3	---	---	---	---	---	---	---	---	---	---	---	ND (0.1)	ND (0.4)										
R-28	10-Jun-03	603	---	---	80.2	223	0.35	0.38	---	ND (0.02)	3.9	ND (0.5)	77.8	ND (0.5)	28.6	ND (0.5)	5.82	95.7	---	137	167	ND (1)	ND (0.5)	---										
	03-Mar-04	670	-11.3	-90.0	87	250	0.5	---	ND (0.5)	---	---	---	78	---	28	---	4.4	93	ND (0.2)	140	140	ND (5)	---	---										
	12-May-04	580	-11.5	-98.0	84	240	ND (0.4)	---	ND (0.5)	---	---	---	72	---	26	---	4.2	92	ND (0.2)	140	140	ND (5)	---	---										
	10-Jun-04	---	---	---	---	---	---	---	---	ND (0.5)	5	---	---	---	---	---	---	---	---	---	---	---	ND (0.1)	ND (0.4)										

NOTES:

1. General chemistry laboratory analysis results from GMP and IM groundwater and surface water sampling, 2003-2004.
FD = field duplicate sample
2. Results in milligrams per liter (mg/L), except Oxygen-18 and Deuterium, which are expressed as differences from global standards in parts per thousand.
3. Alkalinity reported as carbonate (CaCO3). Nitrate reported as Nitrogen (N).
4. All metal results are dissolved concentrations except for selected unfiltered parameters noted with ^ (total metals concentration).
5. All data presented are validated results except for the treatment characterization samples collected from wells TW-2S and TW-2D June 16, 2004.
6. ND =parameter not detected at the listed reporting limit.
J - concentration or reporting estimated by laboratory or data validation
--- parameter not analyzed

Table 6
Groundwater Sampling Results for Additional Analytes - June 2004 Quarterly Event
Topock Groundwater Monitoring Program

Parameter	Loc ID Method	Units	MW-10	MW-11	MW-12	MW-12 duplicate	MW-25	MW-27	MW-28-25	MW-29	MW-34-55	MW-34-80	MW-37D	TW-2S	TW-2D
Volatile Organic Compounds															
Chloroform	8260 (full list)	µg/L	0.8	ND (0.5) J	ND (0.5)	ND (0.5)	ND (0.5)	---	---	---	ND (0.5)	ND (0.5)	0.5	ND (0.5)	0.8 NV
All Other Compounds		µg/L	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND	ND	ND
Semivolatile Organic Compounds															
All Compounds	8270 (full list)	µg/L	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND	ND	ND
Polychlorinated Biphenols															
All Compounds	8082	µg/L	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	---	---	---	---	---	---	ND (0.3)	ND (0.3)
Perchlorate	314	µg/L	---	---	---	---	---	ND (4)	ND (4)	ND (8)	ND (20)	ND (40)	---	ND (8)	ND (40)
Metals (dissolved)															
Aluminum	6020A	mg/L	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	---	---	---	ND (0.05)				
Antimony	6020A	mg/L	ND (0.0042)	ND (0.0047)	ND (0.0042)	ND (0.0042)	ND (0.0042)	---	---	---	0.026	ND (0.0042)	ND (0.0042)	ND (0.025)	ND (0.025)
Arsenic	6020A	mg/L	ND (0.01)	ND (0.01)	0.06	0.07	ND (0.01)	---	---	---	ND (0.01)				
Barium	6020A	mg/L	0.038	0.041	0.052	0.056	0.037	---	---	---	0.083	0.051	0.055	0.063 NV	0.027 NV
Beryllium	6020A	mg/L	ND (0.003)	ND (0.003)	ND (0.003)	ND (0.003)	ND (0.003)	---	---	---	ND (0.003)				
Cadmium	6020A	mg/L	ND (0.003)	ND (0.003)	ND (0.003)	ND (0.003)	ND (0.003)	---	---	---	ND (0.003)				
Cobalt	6020A	mg/L	ND (0.003)	ND (0.003)	ND (0.003)	ND (0.003)	ND (0.003)	---	---	---	ND (0.003)				
Chromium, Total	6020A	mg/L	1.4	0.41	1.3	1.4	2.1	---	---	---	ND (0.003)	ND (0.003)	0.95	5.9 NV	5.6 NV
Copper	6020A	mg/L	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	---	---	---	ND (0.005)				
Lead	6020A	mg/L	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	---	---	---	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.1)
Magnesium	6010B	mg/L	16.2	19.1	2.02	1.97	17.1	---	---	---	68.3	56.6	19.1	40.2	18.0
Manganese	6020A	mg/L	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	---	---	---	0.29	0.3	0.09	ND (0.01)	ND (0.01)
Mercury	7470A	mg/L	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	---	---	---	ND (0.0005)				
Molybdenum	6020A	mg/L	0.01	0.09	0.03	0.04	ND (0.01)	---	---	---	0.02	0.02	0.05	0.03 NV	0.05 NV
Nickel	6020A	mg/L	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	---	---	---	ND (0.005)	0.006	ND (0.005)	ND (0.005)	ND (0.005)
Selenium	6020A	mg/L	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	---	---	---	ND (0.01)	ND (0.01)	0.01	0.02 NV	0.01 NV
Silver	6020A	mg/L	ND (0.003)	ND (0.003)	ND (0.003)	ND (0.003)	ND (0.003)	---	---	---	ND (0.003)				
Thallium	6020A	mg/L	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	---	---	---	ND (0.005)				
Vanadium	6020A	mg/L	ND (0.003)	0.007	0.009	0.008	ND (0.003)	---	---	---	ND (0.003)				
Zinc	6020A	mg/L	ND (0.01)	ND (0.01)	ND (0.01)	0.01	0.01	---	---	---	ND (0.01)	ND (0.01)	0.05 NV	0.01 NV	

NOTES:

1. milligrams per liter (mg/L)
2. micrograms per liter (µg/L)
3. ND = not detected at listed reporting limit, J = concentration or reporting limit estimated by laboratory or data validation
4. --- parameter not analyzed

Table 7
Water Level Measurements and Elevations
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Well Depth (feet BGS)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-09	88	536.18	16-Sep-02	12:00 PM	79.75	0.20	456.40
			09-Dec-02	12:00 PM	81.00	0.20	455.16
			17-Mar-03	12:00 PM	81.20	0.20	455.34
			09-Jun-03	9:04 AM	79.85	0.20	456.68
			08-Sep-03	10:45 AM	80.15	0.20	456.38
			08-Dec-03	9:47 AM	81.22	0.20	455.32
			15-Mar-04	12:37 PM	81.28	0.20	455.26
			16-Mar-04	11:10 AM	81.82	0.20	454.72
			09-Jun-04	2:44 PM	79.85	0.16	456.68
MW-10	95	530.24	16-Sep-02	12:00 PM	74.00	0.20	456.18
			09-Dec-02	12:00 PM	75.28	0.20	454.91
			17-Mar-03	12:00 PM	75.44	0.20	455.16
			09-Jun-03	9:01 AM	73.95	0.20	456.64
			08-Sep-03	10:42 AM	74.40	0.20	456.19
			08-Dec-03	9:40 AM	75.37	0.20	455.23
			15-Mar-04	12:32 PM	75.40	0.20	455.20
			16-Mar-04	10:46 AM	75.40	0.20	455.20
			10-Jun-04	9:29 AM	74.15	0.20	456.44
MW-11	88	522.19	16-Sep-02	12:00 PM	66.17	0.10	455.94
			09-Dec-02	12:00 PM	67.30	0.10	454.81
			17-Mar-03	12:00 PM	66.90	0.10	455.63
			09-Jun-03	8:57 AM	---	0.10	---
			08-Sep-03	10:38 AM	66.52	0.10	456.01
			08-Dec-03	9:35 AM	67.47	0.10	455.06
			15-Mar-04	12:25 PM	67.32	0.10	455.21
			16-Mar-04	10:28 AM	67.32	0.10	455.21
			10-Jun-04	8:30 AM	66.08	0.12	456.45
MW-12	49	483.57	16-Sep-02	12:00 PM	27.75	0.20	455.77
			09-Dec-02	12:00 PM	29.00	0.20	454.52
			17-Mar-03	12:00 PM	28.95	0.20	455.01
			09-Jun-03	10:11 AM	27.58	0.20	456.37
			08-Sep-03	11:58 AM	28.15	0.20	455.80
			08-Dec-03	10:58 AM	29.00	0.20	454.96
			15-Mar-04	10:30 AM	29.00	0.28	454.97
			09-Jun-04	12:45 PM	27.65	0.24	456.31
MW-13	50	488.20	16-Sep-02	12:00 PM	32.00	0.10	456.14
			09-Dec-02	12:00 PM	32.35	0.10	455.79
			17-Mar-03	12:00 PM	32.40	0.10	456.18
			09-Jun-03	9:45 AM	32.00	0.10	456.58
			08-Sep-03	11:23 AM	32.33	0.10	456.25
			08-Dec-03	10:36 AM	32.40	0.10	456.18
			15-Mar-04	2:25 PM	32.37	0.14	456.21

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September 2002 through June 2004
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Location	Well Depth (feet BGS)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-13	50	488.64	17-Mar-04	11:38 AM	32.39	0.14	456.19
			09-Jun-04	10:52 AM	31.95	0.11	456.63
MW-14	132	570.54	16-Sep-02	12:00 PM	114.75	0.10	455.73
		570.99	09-Dec-02	12:00 PM	115.90	0.10	454.58
		570.99	17-Mar-03	12:00 PM	115.70	0.10	455.23
		570.99	09-Jun-03	9:40 AM	114.40	0.10	456.52
		570.99	08-Sep-03	11:15 AM	115.00	0.10	455.93
		570.99	08-Dec-03	10:27 AM	115.90	0.10	455.03
		570.99	15-Mar-04	2:16 PM	115.52	0.10	455.41
		570.99	16-Mar-04	1:50 PM	115.52	0.10	455.41
MW-15	202	641.09	08-Jun-04	2:35 PM	114.15	0.15	456.78
		641.09	16-Sep-02	12:00 PM	184.70	0.12	456.32
		641.09	09-Dec-02	12:00 PM	186.00	0.10	455.02
		641.52	17-Mar-03	12:00 PM	186.25	0.10	455.21
		641.52	09-Jun-03	9:14 AM	185.83	0.10	455.62
		641.52	08-Sep-03	10:53 AM	184.33	0.10	457.12
		641.52	08-Dec-03	9:56 AM	186.23	0.10	455.23
		641.52	15-Mar-04	12:48 PM	184.81	0.10	456.64
		641.52	16-Mar-04	11:29 AM	184.81	0.10	456.64
		641.52	07-Jun-04	12:51 PM	184.68	0.08	456.77
MW-16	218	656.59	16-Sep-02	12:00 PM	199.70	0.10	456.82
		656.59	09-Dec-02	12:00 PM	201.10	0.10	455.42
		657.31	17-Mar-03	12:00 PM	201.60	0.10	455.65
		657.31	09-Jun-03	9:19 AM	200.60	0.10	456.65
		657.31	08-Sep-03	11:04 AM	200.43	0.10	456.81
		657.31	08-Dec-03	10:05 AM	201.25	0.10	456.00
		657.31	15-Mar-04	12:58 PM	201.65	0.10	455.60
		657.31	16-Mar-04	12:33 PM	201.65	0.10	455.60
		657.31	07-Jun-04	1:45 PM	201.43	0.06	455.81
		657.31	09-Jun-04	1:20 PM	200.65	0.06	456.59
MW-17	151	588.23	16-Sep-02	12:00 PM	132.68	0.10	455.48
		588.23	09-Dec-02	12:00 PM	133.68	0.10	454.48
		589.96	09-Jun-03	12:40 PM	132.80	0.10	457.09
		589.96	08-Sep-03	1:33 PM	132.95	0.10	456.94
		589.96	05-Nov-03	8:43 AM	133.60	0.10	456.29
		589.96	08-Dec-03	10:15 AM	133.77	0.10	456.12
		589.96	15-Mar-04	2:00 PM	133.87	0.10	456.02
		589.96	16-Mar-04	12:58 PM	133.87	0.10	456.02
		589.96	07-Jun-04	2:20 PM	132.71	0.09	457.18
		589.96					
MW-18	110	544.52	16-Sep-02	12:00 PM	88.78	0.10	455.67
		544.52	09-Dec-02	12:00 PM	89.95	0.10	454.50
		545.32	17-Mar-03	12:00 PM	89.80	0.10	455.45

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Water Level Measurements and Elevations
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Well Depth (feet BGS)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time	Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells						
MW-18	110	545.32	09-Jun-03 9:03 AM	88.55	0.10	456.70
			08-Sep-03 11:10 AM	88.97	0.10	456.28
			08-Dec-03 10:23 AM	89.95	0.10	455.30
			15-Mar-04 2:10 PM	89.76	0.10	455.49
			16-Mar-04 1:24 PM	89.76	0.10	455.49
			09-Jun-04 10:00 AM	88.49	0.08	456.75
MW-19	66	499.11	16-Sep-02 12:00 PM	44.31	0.10	454.73
		499.92	09-Dec-02 12:00 PM	45.60	0.10	453.44
			17-Mar-03 12:00 PM	44.52	0.10	455.33
			09-Jun-03 9:48 AM	43.27	0.10	456.58
			08-Sep-03 11:32 AM	44.32	0.10	455.53
			08-Dec-03 10:43 AM	45.18	0.10	454.67
			15-Mar-04 2:38 PM	44.56	0.15	455.30
			16-Mar-04 1:09 PM	44.33	0.15	455.53
			08-Jun-04 1:15 PM	43.25	0.23	456.62
MW-20-070	70	499.67	16-Sep-02 12:00 PM	44.52	0.20	455.08
		500.15	09-Dec-02 12:00 PM	45.95	0.20	453.66
			17-Mar-03 12:00 PM	44.83	0.20	455.25
			09-Jun-03 10:02 AM	43.60	0.20	456.48
			08-Sep-03 11:37 AM	44.70	0.20	455.38
			08-Dec-03 10:50 AM	44.45	0.20	455.63
			03-Mar-04 10:33 AM	45.43	0.20	454.66
			15-Mar-04 3:04 PM	56.99 +	0.24	443.13
			11-Jun-04 12:19 PM	43.98	0.20	456.10
MW-20-100	100	500.08	16-Sep-02 12:00 PM	45.15	0.30	454.81
		500.58	09-Dec-02 12:00 PM	47.50	0.30	452.47
			17-Mar-03 12:00 PM	45.60	0.30	454.87
			09-Jun-03 10:06 AM	43.95	0.30	456.51
			08-Sep-03 11:42 AM	45.15	0.30	455.33
			08-Dec-03 10:53 AM	45.93	0.30	454.54
			03-Mar-04 10:10 AM	45.85	0.30	454.62
			15-Mar-04 2:54 PM	74.75 +	0.36	425.79
			15-Mar-04 3:14 PM	74.22 +	0.36	426.32
			11-Jun-04 12:20 PM	44.53	0.30	455.94
MW-20-130	132	500.20	16-Sep-02 12:00 PM	45.45	1.20	455.12
		500.66	09-Dec-02 12:00 PM	46.95	1.20	453.62
			17-Mar-03 12:00 PM	45.27	1.20	455.77
			09-Jun-03 10:04 AM	44.25	1.10	456.73
			17-Jun-03 10:30 AM	44.70	1.10	456.29
			08-Sep-03 11:40 AM	45.55	1.20	455.50
			08-Dec-03 10:57 AM	46.30	1.20	454.73
			03-Mar-04 9:37 AM	46.20	1.20	454.85

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September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

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Monitoring Wells							
MW-20-130	132	500.66	15-Mar-04	3:25 PM	69.88 +	0.96	430.95
			15-Mar-04	3:02 PM	69.88 +	0.96	430.95
			11-Jun-04	1:43 PM	44.76	0.70	455.98
MW-21	60	504.77 505.55	16-Sep-02	12:00 PM	49.30	0.80	455.49
			09-Dec-02	12:00 PM	50.60	0.80	454.19
			17-Mar-03	12:00 PM	50.50	0.90	455.07
			09-Jun-03	10:35 AM	49.00	0.80	456.57
			08-Sep-03	11:52 AM	49.25	0.90	456.33
			03-Nov-03	8:53 AM	49.87	1.00	455.71
			08-Dec-03	10:15 AM	50.65	0.90	454.92
			13-Jan-04	4:15 PM	50.52	1.10	455.07
			25-Feb-04	1:05 PM	49.89	1.40	455.72
			15-Mar-04	3:24 PM	50.70	0.83	454.87
			14-Apr-04	4:30 PM	48.60	0.70	456.96
			11-May-04	9:14 AM	49.57	0.60	455.98
			07-Jun-04	10:35 AM	49.26	0.63	456.30
			08-Jun-04	11:28 AM	50.35	0.63	455.21
MW-22	11	460.30 460.72	16-Sep-02	12:00 PM	6.03	2.00	454.35
			09-Dec-02	12:00 PM	7.00	2.20	453.38
			17-Mar-03	12:00 PM	5.87	1.80	454.92
			09-Jun-03	10:50 AM	4.75	1.70	456.05
			08-Sep-03	12:42 PM	6.50	2.10	454.30
			08-Dec-03	12:10 PM	6.25	2.10	454.55
			15-Mar-04	11:33 AM	5.65	2.10	455.16
			19-Mar-04	9:48 AM	5.53	2.10	455.28
			07-Jun-04	11:20 AM	4.70	1.50	456.08
			16-Sep-02	12:00 PM	51.52	1.10	455.13
MW-23	80	506.53 507.33	09-Dec-02	12:00 PM	52.65	1.30	454.04
			17-Mar-03	12:00 PM	52.20	1.20	455.27
			09-Jun-03	10:17 AM	51.25	1.20	456.23
			08-Sep-03	12:00 PM	51.72	1.20	455.75
			08-Dec-03	11:04 AM	52.63	1.20	454.84
			15-Mar-04	3:07 PM	52.54	1.13	454.91
			07-Jun-04	10:00 AM	51.14	1.03	456.30
			08-Jun-04	11:03 AM	53.01	1.03	454.42
MW-24A	125	566.38 567.16	16-Sep-02	12:00 PM	110.68	0.20	455.66
			09-Dec-02	12:00 PM	111.90	0.20	454.44
			17-Mar-03	12:00 PM	112.00	0.20	455.12
			09-Jun-03	8:50 AM	110.60	0.20	456.52
			08-Sep-03	10:26 AM	111.02	0.20	456.10
			09-Sep-03	3:04 PM	110.96	0.20	456.16
			09-Sep-03	3:34 PM	110.97	0.20	456.15

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September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

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Monitoring Wells							
MW-24A	125	567.16	08-Dec-03	9:15 AM	112.00	0.20	455.12
			15-Mar-04	11:50 AM	111.94	0.23	455.19
			17-Mar-04	11:00 AM	111.91	0.23	455.22
			08-Jun-04	10:08 AM	110.61	0.17	456.51
MW-24B	217	564.01	16-Sep-02	12:00 PM	108.40	0.80	455.77
			09-Dec-02	12:00 PM	109.80	0.90	454.45
		564.76	17-Mar-03	12:00 PM	109.75	0.80	455.17
			09-Jun-03	8:48 AM	108.35	0.80	456.57
			08-Sep-03	10:24 AM	108.82	0.90	456.22
			09-Sep-03	3:06 PM	108.64	0.90	456.40
			09-Sep-03	2:54 PM	108.64	0.90	456.40
			09-Sep-03	3:51 PM	108.66	0.90	456.38
			08-Dec-03	9:17 AM	109.80	0.90	455.23
			15-Mar-04	12:00 PM	109.71	0.85	455.25
			17-Mar-04	10:13 AM	108.47	0.85	456.49
			08-Jun-04	8:25 AM	108.40	0.75	456.48
MW-24BR	440	563.11	16-Sep-02	12:00 PM	107.25	0.90	456.42
			09-Dec-02	12:00 PM	108.75	1.00	455.16
		563.95	17-Mar-03	12:00 PM	108.45	0.90	456.06
			09-Jun-03	8:45 AM	106.90	0.90	457.61
			08-Sep-03	10:15 AM	107.58	0.90	456.93
			09-Sep-03	3:15 PM	107.60	0.90	456.91
			09-Sep-03	3:56 PM	107.59	0.90	456.92
			09-Sep-03	3:10 PM	107.60	0.90	456.91
			08-Dec-03	9:30 AM	108.30	1.00	456.45
			15-Mar-04	12:08 PM	108.55	0.89	455.94
			17-Mar-04	3:08 PM	108.55	0.89	455.94
			07-Jun-04	11:04 AM	107.09	0.82	457.23
			08-Jun-04	9:35 AM	144.70	0.82	419.58
MW-25	105	542.34	16-Sep-02	12:00 PM	86.83	0.10	455.44
			09-Dec-02	12:00 PM	88.10	0.10	454.18
		542.90	17-Mar-03	12:00 PM	87.65	0.10	455.18
			09-Jun-03	9:50 AM	88.35	0.10	454.49
			08-Sep-03	11:26 AM	87.00	0.10	455.83
			08-Dec-03	10:37 AM	87.95	0.10	454.89
			03-Mar-04	12:03 PM	88.00	0.10	454.84
			15-Mar-04	2:31 PM	87.62	0.11	455.22
			17-Mar-04	12:10 PM	87.65	0.11	455.19
			14-May-04	11:37 AM	86.55	0.10	456.28
			09-Jun-04	8:50 AM	86.41	0.09	456.42
MW-26	72	501.74	16-Sep-02	12:00 PM	46.27	0.20	455.39
			09-Dec-02	12:00 PM	47.50	0.20	454.17

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Monitoring Wells							
MW-26	72	502.22	17-Mar-03	12:00 PM	47.10	0.20	455.04
			09-Jun-03	10:40 AM	45.85	0.20	456.29
			08-Sep-03	11:47 AM	46.53	0.20	455.61
			08-Dec-03	10:21 AM	47.40	0.20	454.74
			03-Mar-04	12:34 PM	47.43	0.20	454.71
			15-Mar-04	11:42 AM	47.10	0.23	455.05
			16-Mar-04	2:13 PM	47.05	0.23	455.10
			14-May-04	12:09 PM	46.15	0.20	456.00
			08-Jun-04	12:10 PM	45.75	0.18	456.39
MW-27	17	460.09	16-Sep-02	12:00 PM	5.95	0.10	454.12
		460.56	09-Dec-02	12:00 PM	7.26	0.00	452.81
			17-Mar-03	12:00 PM	5.32	0.10	455.22
			09-Jun-03	11:00 AM	3.85	0.00	456.68
			10-Jun-03	9:45 AM	3.71	0.00	456.83
			17-Jun-03	8:30 AM	4.19	0.00	456.35
			08-Sep-03	12:47 PM	5.75	0.00	454.78
			04-Nov-03	9:40 AM	6.65	0.10	453.90
			08-Dec-03	12:26 PM	6.40	0.00	454.14
			13-Jan-04	1:25 PM	7.14	0.10	453.41
			29-Jan-04	1:41 PM	7.65	0.10	452.90
			05-Feb-04	12:08 PM	6.76	0.00	453.78
			12-Feb-04	12:30 PM	6.48	0.00	454.06
			19-Feb-04	3:20 PM	6.34	0.00	454.20
			26-Feb-04	2:24 PM	7.37	0.10	453.18
			03-Mar-04	2:40 PM	6.22	0.10	454.32
			10-Mar-04	1:45 PM	5.26	0.20	455.30
			15-Mar-04	11:27 AM	5.02	0.00	455.52
			17-Mar-04	11:12 AM	5.02	0.00	455.52
			24-Mar-04	11:18 AM	4.04	0.10	456.51
			31-Mar-04	11:45 AM	4.76	0.00	455.78
			07-Apr-04	11:15 AM	4.19	0.00	456.35
			13-Apr-04	3:20 PM	4.44	0.10	456.11
			21-Apr-04	12:15 PM	4.35	0.00	456.19
			28-Apr-04	10:33 AM	4.05	0.00	456.49
			05-May-04	11:29 AM	4.05	0.00	456.49
			12-May-04	2:15 PM	4.26	0.00	456.28
			19-May-04	12:20 PM	4.35	0.00	456.19
			26-May-04	11:05 AM	4.39	0.00	456.15
			02-Jun-04	1:37 PM	4.20	0.00	456.34
			08-Jun-04	2:32 PM	4.13	0.00	456.41
MW-28-25	23	466.32	16-Sep-02	12:00 PM	12.25	0.10	454.04
		466.85	09-Dec-02	12:00 PM	13.40	0.10	452.89
			17-Mar-03	12:00 PM	11.45	0.20	455.38

Table 7
Water Level Measurements and Elevations
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Well Depth (feet BGS)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-28-25	23	466.85	09-Jun-03	11:40 AM	10.10	0.10	456.72
			08-Sep-03	1:05 PM	12.00	0.10	454.82
			04-Nov-03	11:29 AM	13.00	0.10	453.82
			08-Dec-03	12:48 PM	12.70	0.10	454.12
			13-Jan-04	1:45 PM	13.29	0.10	453.53
			29-Jan-04	2:15 PM	13.98	0.10	452.85
			05-Feb-04	11:40 AM	12.64	0.10	454.18
			12-Feb-04	11:56 AM	12.80	0.10	454.02
			20-Feb-04	9:37 AM	12.09	0.10	454.73
			26-Feb-04	1:49 PM	13.78	0.10	453.05
			04-Mar-04	10:20 AM	11.92	0.10	454.91
			10-Mar-04	3:00 PM	11.61	0.50	455.25
			15-Mar-04	11:05 AM	11.45	0.10	455.38
			17-Mar-04	10:04 AM	11.35	0.10	455.48
			24-Mar-04	10:12 AM	10.04	0.10	456.78
			31-Mar-04	10:00 AM	10.92	0.10	455.90
			07-Apr-04	10:05 AM	10.37	0.10	456.45
			13-Apr-04	12:45 PM	10.60	0.10	456.22
			21-Apr-04	10:48 AM	10.49	0.10	456.33
			28-Apr-04	8:29 AM	10.03	0.10	456.79
			05-May-04	1:00 PM	10.20	0.10	456.63
			11-May-04	12:30 PM	10.30	0.10	456.52
			20-May-04	8:25 AM	10.24	0.10	456.58
			26-May-04	9:55 AM	10.50	0.10	456.32
			02-Jun-04	2:28 PM	10.52	0.10	456.30
			07-Jun-04	12:56 PM	10.11	0.10	456.71
MW-28-90	95	467.66	29-Apr-04	1:49 PM	11.65	0.70	456.22
MW-29	40	484.73	16-Sep-02	12:00 PM	29.87	0.10	454.83
		485.21	09-Dec-02	12:00 PM	31.20	0.50	453.54
			17-Mar-03	12:00 PM	29.90	0.80	455.34
			09-Jun-03	12:00 PM	28.75	0.30	456.45
			08-Sep-03	1:25 PM	30.00	0.20	455.19
			08-Dec-03	1:00 PM	30.60	0.30	454.60
			19-Feb-04	10:16 AM	30.52	0.90	454.73
			15-Mar-04	10:55 AM	29.87	0.53	455.35
			18-Mar-04	11:14 AM	29.73	0.53	455.49
			13-Apr-04	11:50 AM	29.07	0.20	456.12
			11-May-04	2:04 PM	28.88	0.20	456.31
			09-Jun-04	9:27 AM	28.57	0.10	456.61
MW-30-30	32	467.64	16-Sep-02	12:00 PM	13.20	4.00	454.96
			09-Dec-02	12:00 PM	14.30	4.00	453.83
		468.12	17-Mar-03	12:00 PM	13.30	2.90	455.17
			09-Jun-03	11:30 AM	12.00	2.50	456.43

Table 7
Water Level Measurements and Elevations
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Well Depth (feet BGS)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-30-30	32	468.12	08-Sep-03	12:58 PM	13.30	4.00	455.34
			10-Sep-03	1:25 PM	13.32	4.00	455.32
			04-Nov-03	11:14 AM	13.70	4.00	454.93
			08-Dec-03	12:40 PM	13.85	3.60	454.72
			14-Jan-04	9:35 AM	14.55	4.00	454.06
			29-Jan-04	9:35 AM	14.65	4.00	453.96
			05-Feb-04	10:52 AM	14.30	2.90	454.16
			12-Feb-04	11:05 AM	14.15	2.00	454.19
			19-Feb-04	11:36 AM	13.90	3.60	454.67
			26-Feb-04	12:54 PM	14.35	3.90	454.25
			04-Mar-04	2:24 PM	13.80	3.90	454.81
			11-Mar-04	9:35 AM	13.20	4.00	455.44
			15-Mar-04	11:10 AM	13.30	3.20	455.22
			18-Mar-04	1:16 PM	13.32	3.20	455.20
			24-Mar-04	1:55 PM	12.83	3.20	455.70
			31-Mar-04	12:55 PM	12.91	3.10	455.60
			07-Apr-04	12:10 PM	12.60	2.80	455.87
			14-Apr-04	1:20 PM	12.48	4.00	456.18
			21-Apr-04	1:15 PM	12.46	3.00	456.05
			28-Apr-04	11:29 AM	12.26	3.10	456.27
			05-May-04	2:43 PM	12.16	3.10	456.37
			12-May-04	10:54 AM	12.21	2.70	456.26
			20-May-04	9:09 AM	12.12	2.80	456.36
			26-May-04	12:19 PM	12.41	3.70	456.21
			03-Jun-04	9:11 AM	11.95	2.30	456.46
			09-Jun-04	11:27 AM	12.04	2.40	456.38
MW-30-50	50	468.81	17-Mar-03	12:00 PM	13.55	0.70	455.32
			09-Jun-03	11:31 AM	12.25	0.60	456.59
			08-Sep-03	1:00 PM	13.97	0.70	454.91
			10-Sep-03	1:30 PM	14.05	0.70	454.83
			04-Nov-03	10:55 AM	14.78	0.60	454.07
			08-Dec-03	12:45 PM	14.73	0.20	454.01
			14-Jan-04	9:45 AM	14.80	0.20	453.94
			29-Jan-04	10:13 AM	15.65	0.40	453.15
			05-Feb-04	10:48 AM	14.55	0.40	454.24
			12-Feb-04	11:00 AM	14.73	0.30	454.04
			19-Feb-04	12:15 PM	14.52	0.60	454.33
			26-Feb-04	1:19 PM	15.58	0.60	453.27
			05-Mar-04	10:49 AM	14.10	0.60	454.75
			11-Mar-04	1:51 PM	13.35	0.60	455.50
			15-Mar-04	11:12 AM	13.70	0.60	455.15
			18-Mar-04	2:12 PM	13.85	0.60	454.99
			25-Mar-04	11:50 AM	13.57	0.70	455.31

Table 7
Water Level Measurements and Elevations
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Well Depth (feet BGS)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-30-50	50	468.81	01-Apr-04	11:30 AM	13.22	0.60	455.63
			08-Apr-04	10:00 AM	12.89	0.60	455.96
			15-Apr-04	2:54 PM	13.05	0.60	455.80
			22-Apr-04	1:45 PM	13.13	0.60	455.71
			29-Apr-04	11:38 AM	12.55	0.60	456.30
			06-May-04	1:46 PM	12.46	0.60	456.39
			14-May-04	7:58 AM	12.38	0.60	456.47
			20-May-04	2:20 PM	13.35	0.60	455.50
			27-May-04	1:41 PM	13.00	0.60	455.85
			03-Jun-04	12:00 PM	12.68	0.50	456.14
			09-Jun-04	2:06 PM	13.00	0.60	455.85
MW-31-060	62	496.30	16-Sep-02	12:00 PM	41.35	0.20	454.89
			09-Dec-02	12:00 PM	42.65	0.20	453.60
		496.81	17-Mar-03	12:00 PM	41.44	0.20	455.31
			09-Jun-03	9:57 AM	40.20	0.20	456.55
			08-Sep-03	11:35 AM	41.35	0.20	455.40
			08-Dec-03	10:45 AM	42.15	0.20	454.61
			03-Mar-04	11:32 AM	42.05	0.20	454.71
			15-Mar-04	11:30 AM	41.44	0.20	455.31
			16-Mar-04	1:48 PM	41.34	0.20	455.41
			03-Apr-04	3:16 PM	40.78	0.20	455.97
			11-Apr-04	10:05 AM	40.80	0.20	455.95
			14-May-04	9:28 AM	40.53	0.20	456.22
			08-Jun-04	12:50 PM	40.27	0.19	456.48
MW-31-135	133	498.11	16-Apr-04	11:16 AM	42.03	0.70	456.15
			10-Jun-04	2:38 PM	42.20	0.70	456.00
MW-32-20	20	461.51	17-Mar-03	12:00 PM	6.50	0.40	455.01
			09-Jun-03	10:45 AM	5.30	0.40	456.21
			08-Sep-03	12:38 PM	6.64	0.40	454.87
			04-Nov-03	9:27 AM	7.25	0.70	454.29
			08-Dec-03	12:15 PM	7.25	0.70	454.29
			13-Jan-04	1:05 PM	8.20	0.80	453.35
			18-Feb-04	10:52 AM	7.22	0.40	454.29
			04-Mar-04	11:45 AM	7.10	0.80	454.45
			15-Mar-04	11:30 AM	6.50	0.60	455.03
			18-Mar-04	1:15 PM	6.39	0.60	455.14
			13-Apr-04	1:50 PM	5.69	0.40	455.82
			12-May-04	12:15 PM	5.60	0.40	455.91
			07-Jun-04	2:40 PM	7.34	0.40	454.17
MW-32-35	37	461.63	17-Mar-03	12:00 PM	6.40	0.30	455.20
			09-Jun-03	10:43 AM	5.03	0.40	456.59
			08-Sep-03	12:36 PM	6.67	0.40	454.95

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Water Level Measurements and Elevations
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Well Depth (feet BGS)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-32-35	37	461.63	04-Nov-03	9:10 AM	7.52	0.40	454.10
			08-Dec-03	12:20 PM	7.40	0.40	454.22
			13-Jan-04	10:12 AM	7.98	0.50	453.67
			18-Feb-04	9:12 AM	7.20	0.40	454.42
			04-Mar-04	12:14 PM	6.95	0.50	454.70
			15-Mar-04	11:31 AM	6.36	0.43	455.27
			18-Mar-04	2:10 PM	6.40	0.43	455.23
			13-Apr-04	2:20 PM	5.68	0.40	455.95
			12-May-04	12:58 PM	5.46	0.40	456.17
			08-Jun-04	9:00 AM	4.77	0.40	456.86
MW-33-40	39	487.41	17-Mar-03	12:00 PM	32.20	0.20	455.19
			09-Jun-03	12:08 PM	30.90	0.20	456.49
			08-Sep-03	1:10 PM	32.28	1.10	455.17
			04-Nov-03	1:00 PM	33.13	1.00	454.31
			08-Dec-03	12:52 PM	33.05	1.00	454.39
			13-Jan-04	11:45 AM	33.35	1.10	454.10
			19-Feb-04	9:05 AM	32.68	0.40	454.72
			15-Mar-04	11:00 AM	32.03	0.20	455.36
			18-Mar-04	9:30 AM	31.75	0.20	455.64
			14-Apr-04	10:20 AM	31.14	1.00	456.31
			12-May-04	9:45 AM	31.05	0.30	456.35
			09-Jun-04	12:46 PM	31.00	0.20	456.39
MW-33-90	89	487.57	17-Mar-03	12:00 PM	32.15	0.40	455.37
			09-Jun-03	12:05 PM	30.95	0.50	456.61
			08-Sep-03	1:14 PM	32.50	0.50	455.06
			04-Nov-03	1:14 PM	33.30	0.60	454.30
			08-Dec-03	12:55 PM	33.25	0.60	454.35
			13-Jan-04	11:07 AM	33.60	0.80	454.08
			17-Feb-04	10:23 AM	32.88	0.40	454.64
			15-Mar-04	11:02 AM	32.22	0.40	455.32
			18-Mar-04	9:33 AM	31.88	0.40	455.65
			14-Apr-04	11:06 AM	31.27	1.60	456.77
			06-May-04	7:51 AM	30.96	0.50	456.65
			13-May-04	1:45 PM	31.77	0.50	455.80
			20-May-04	10:14 AM	31.32	0.50	456.25
			26-May-04	1:12 PM	31.66	0.50	455.91
			03-Jun-04	10:10 AM	31.07	0.50	456.50
MW-34-55	56	460.88	09-Jun-03	11:12 AM	4.20	0.50	456.73
			08-Sep-03	12:52 PM	6.17	0.30	454.70
			04-Nov-03	10:00 AM	6.97	0.40	453.93
			08-Dec-03	12:30 PM	7.00	0.10	453.79
			13-Jan-04	2:30 PM	7.45	0.20	453.37
			29-Jan-04	12:05 PM	8.15	0.50	452.78

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September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

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Monitoring Wells						
MW-34-55	56	460.88	05-Feb-04 9:43 AM	6.48	0.50	454.45
			12-Feb-04 9:10 AM	6.74	0.40	454.16
			18-Feb-04 1:40 PM	6.53	0.60	454.44
			26-Feb-04 12:18 PM	8.00	0.80	453.04
			04-Mar-04 1:01 PM	6.50	0.80	454.54
			11-Mar-04 10:30 AM	4.85	0.80	456.19
			15-Mar-04 11:17 AM	5.85	0.70	455.16
			17-Mar-04 12:50 PM	6.31	0.70	454.70
			24-Mar-04 12:25 PM	4.68	0.80	456.36
			31-Mar-04 1:35 PM	5.60	0.60	455.37
			07-Apr-04 1:15 PM	5.81	0.60	455.16
			15-Apr-04 12:00 PM	4.92	0.60	456.05
			22-Apr-04 9:25 AM	4.55	0.70	456.47
			29-Apr-04 7:35 AM	3.83	0.70	457.18
			06-May-04 10:30 AM	4.32	0.70	456.71
			13-May-04 9:17 AM	4.88	0.60	456.10
			19-May-04 1:25 PM	5.36	0.50	455.58
			27-May-04 9:13 AM	4.41	0.60	456.57
			02-Jun-04 8:45 AM	3.85	0.60	457.13
			08-Jun-04 10:39 AM	4.13	0.60	456.84
MW-34-80	83	460.99	09-Jun-03 11:15 AM	4.30	0.90	456.99
			08-Sep-03 12:50 PM	6.27	1.00	455.09
			04-Nov-03 10:20 AM	7.00	1.00	454.34
			08-Dec-03 12:35 PM	7.07	0.90	454.22
			13-Jan-04 10:50 AM	7.00	0.80	454.23
			29-Jan-04 3:07 PM	8.46	0.70	452.71
			05-Feb-04 9:15 AM	6.60	0.80	454.63
			12-Feb-04 9:08 AM	6.85	0.70	454.33
			18-Feb-04 11:48 AM	6.73	0.90	454.56
			26-Feb-04 11:47 AM	8.09	1.70	453.63
			05-Mar-04 9:05 AM	6.10	1.70	455.64
			11-Mar-04 10:32 AM	5.00	1.70	456.73
			15-Mar-04 11:19 AM	5.98	0.90	455.32
			17-Mar-04 1:45 PM	6.52	0.90	454.78
			25-Mar-04 8:50 AM	5.16	0.90	456.10
			01-Apr-04 9:20 AM	5.16	0.80	456.08
			08-Apr-04 7:30 AM	5.40	0.80	455.83
			16-Apr-04 9:02 AM	4.42	0.80	456.81
			22-Apr-04 11:40 AM	5.16	0.90	456.13
			29-Apr-04 9:20 AM	4.29	0.90	457.00
			06-May-04 11:55 AM	4.56	0.90	456.73
			13-May-04 11:03 AM	5.47	0.80	455.77
			20-May-04 12:39 PM	5.52	0.90	455.78

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Water Level Measurements and Elevations
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Well Depth (feet BGS)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-34-80	83	460.99	27-May-04	10:53 AM	4.99	0.90	456.31
			02-Jun-04	11:37 AM	4.73	0.90	456.58
			08-Jun-04	12:40 PM	4.85	0.80	456.41
MW-35-060	57	484.19	15-Apr-04	9:25 AM	27.50	0.30	456.64
MW-35-135	156	483.57	15-Apr-04	10:23 AM	27.58	0.70	456.15
			10-Jun-04	11:17 AM	27.61	0.72	456.16
MW-36-020	---	469.32	18-May-04	11:55 AM	13.22	0.70	456.11
			15-Jun-04	1:55 PM	13.23	0.63	456.10
MW-36-040	---	469.64	18-May-04	12:35 PM	13.85	0.50	455.77
			16-Jun-04	10:26 AM	13.43	0.49	456.22
MW-36-050	---	469.65	19-May-04	2:25 PM	14.21	0.56	455.45
			17-Jun-04	10:06 AM	13.17	0.50	456.49
MW-36-070	---	469.31	19-May-04	11:22 AM	13.20	0.83	456.36
			17-Jun-04	11:40 AM	12.99	0.70	456.42
MW-36-090	---	469.68	18-May-04	1:28 PM	13.98	0.90	455.88
MW-36-100	110	469.69	21-May-04	8:43 AM	13.27	0.90	456.74
			15-Jun-04	10:25 AM	13.35	0.97	456.69
MW-37D	225	486.19	19-May-04	10:20 AM	30.18	0.70	456.09
			11-Jun-04	10:32 AM	30.37	0.80	456.04
MW-37S	84	485.97	19-May-04	9:15 AM	30.23	0.20	455.58
MW-38D	188	525.31	05-May-04	9:10 AM	67.55	1.40	458.42
			10-Jun-04	1:25 PM	69.80	1.33	456.09
MW-38S	95	525.51	14-May-04	10:41 AM	90.20	0.20	435.29
			11-Jun-04	8:57 AM	69.62	0.23	455.81
			17-Jun-04	12:10 PM	69.55	0.24	455.89
MW-39-040	---	468.02	20-May-04	8:45 AM	11.75	0.36	456.24
			18-Jun-04	9:13 AM	11.73	0.30	456.25
MW-39-050	---	467.93	20-May-04	11:37 AM	12.20	0.45	455.71
			18-Jun-04	10:04 AM	11.75	0.50	456.19
MW-39-060	66	468.00	20-May-04	12:15 PM	12.23	0.42	455.74
			18-Jun-04	10:45 AM	11.93	0.40	456.04
MW-39-070	---	468.02	20-May-04	9:43 AM	11.95	0.55	456.08
			18-Jun-04	8:05 AM	11.75	0.40	456.23
MW-39-080	---	467.92	20-May-04	10:36 AM	11.89	0.74	456.14
			17-Jun-04	1:28 PM	11.90	0.60	456.07
MW-39-100	118	468.01	21-May-04	10:04 AM	11.96	0.90	456.37
			15-Jun-04	11:55 AM	11.97	1.00	456.43
			16-Jun-04	11:41 AM	11.97	1.00	456.43
MW-40D	265	566.08	10-May-04	2:20 PM	109.98	0.80	456.14

Table 7
Water Level Measurements and Elevations
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Well Depth (feet BGS)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-40D	265	566.08	14-Jun-04	12:35 PM	110.00	1.00	456.34
MW-40S	---	566.04	11-May-04	9:00 AM	110.00	0.10	455.94
			14-Jun-04	8:15 AM	109.60	0.10	456.34
Park-Moabi	---	518.55	16-Mar-04	10:00 AM	61.34	0.08	---
PGE-06	180	562.99	16-Sep-02	12:00 PM	106.85	0.33	456.02
		563.32	09-Dec-02	12:00 PM	108.10	0.33	454.78
			17-Mar-03	12:00 PM	108.15	0.33	455.06
			09-Jun-03	8:25 AM	106.90	0.33	456.31
			08-Sep-03	10:30 AM	107.20	0.20	455.94
			08-Dec-03	9:25 AM	108.15	0.30	455.04
			15-Mar-04	12:13 PM	108.14	0.30	455.05
PGE-07	330	563.63	09-Dec-02	12:00 PM	108.80	0.94	455.46
		563.89	17-Mar-03	12:00 PM	108.92	0.94	455.61
			09-Jun-03	8:35 AM	108.35	0.97	456.23
			08-Sep-03	10:28 AM	107.95	0.97	456.63
			08-Dec-03	9:21 AM	108.95	1.00	455.67
			15-Mar-04	12:16 PM	108.80	1.00	455.82
PGE-08	562	595.35	16-Sep-02	12:00 PM	139.93	1.12	456.90
		596.01	09-Dec-02	12:00 PM	140.90	1.12	455.92
			17-Mar-03	12:00 PM	141.36	1.12	456.13
			09-Jun-03	8:29 AM	139.53	1.12	457.96
			08-Sep-03	1:45 PM	140.05	1.12	457.44
			08-Dec-03	9:05 AM	141.05	1.30	456.98
			15-Mar-04	10:15 AM	141.07	1.30	456.96
Surface Water Stations							
A-Dock	---	459.67	16-Sep-02	12:00 PM	5.05	0.00	454.62
		460.22	09-Dec-02	12:00 PM	6.80	0.00	452.87
			17-Mar-03	12:00 PM	4.45	0.00	455.77
			09-Jun-03	12:25 PM	3.50	0.00	456.72
			08-Sep-03	12:23 PM	5.50	0.00	454.72
			08-Dec-03	1:22 PM	6.75	0.00	453.47
			17-Feb-04	12:30 PM	6.16	0.10	454.06
			15-Mar-04	10:47 AM	4.95	0.00	455.27
			11-Jun-04	10:12 AM	6.00	0.00	454.22
I-3	---	459.87	16-Sep-02	12:00 PM	7.82	0.00	452.05
		460.30	09-Dec-02	12:00 PM	7.02	0.00	452.85
			17-Mar-03	12:00 PM	5.40	0.00	454.90
			09-Jun-03	10:26 AM	3.65	0.00	456.65
			10-Jun-03	11:10 AM	4.25	0.00	456.05
			16-Jun-03	3:25 PM	5.53	0.00	454.77
			08-Sep-03	12:06 PM	5.85	0.00	454.45

Table 7
Water Level Measurements and Elevations
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Well Depth (feet BGS)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time	Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Surface Water Stations						
I-3	---	460.30	09-Sep-03 4:17 PM	6.72	0.00	453.58
			03-Nov-03 3:34 PM	7.60	0.00	452.70
			08-Dec-03 1:50 PM	7.20	0.00	453.10
			13-Jan-04 1:00 PM	7.05	0.00	453.25
			13-Jan-04 3:25 PM	7.41	0.00	452.89
			13-Jan-04 9:55 AM	6.39	0.00	453.91
			14-Jan-04 10:35 AM	6.50	0.00	453.80
			29-Jan-04 8:40 AM	7.71	0.00	452.59
			29-Jan-04 12:05 PM	8.11	0.00	452.19
			29-Jan-04 3:40 PM	8.20	0.00	452.10
			05-Feb-04 12:25 PM	5.90	0.00	454.40
			16-Feb-04 2:20 PM	6.70	0.10	453.60
			04-Mar-04 9:55 AM	5.60	0.00	454.70
			13-Mar-04 11:45 AM	4.59	0.00	455.71
			15-Mar-04 10:30 AM	5.62	0.00	454.68
			15-Mar-04 12:10 PM	5.62	0.00	454.68
			31-Mar-04 2:15 PM	5.47	0.00	454.83
			01-Apr-04 10:10 AM	4.91	0.00	455.39
			07-Apr-04 11:30 AM	4.61	0.00	455.69
			08-Apr-04 10:20 AM	4.89	0.00	455.41
			28-Apr-04 12:52 PM	4.80	0.00	455.50
			29-Apr-04 9:44 AM	3.73	0.00	456.57
			13-May-04 2:32 PM	5.60	0.00	454.70
			10-Jun-04 12:56 PM	5.07	0.00	455.23
RRB	---	476.18	16-Sep-02 12:00 PM	21.78	0.00	454.40
			09-Dec-02 12:00 PM	23.40	0.00	452.78
		476.63	17-Mar-03 12:00 PM	21.25	0.00	455.38
			09-Jun-03 12:20 PM	20.25	0.00	456.38
			08-Sep-03 12:18 PM	22.10	0.00	454.53
			03-Nov-03 3:42 PM	23.57	0.00	453.06
			08-Dec-03 1:42 PM	23.35	0.00	453.28
			13-Jan-04 1:10 PM	23.06	0.00	453.57
			13-Jan-04 10:05 AM	22.35	0.00	454.28
			13-Jan-04 3:35 PM	23.38	0.00	453.25
			14-Jan-04 10:45 AM	22.52	0.00	454.11
			14-Jan-04 10:25 AM	22.45	0.00	454.18
			29-Jan-04 3:45 PM	23.70	0.00	452.93
			29-Jan-04 8:50 AM	23.59	0.00	453.04
			29-Jan-04 12:15 PM	23.68	0.00	452.95
			05-Feb-04 12:10 PM	21.75	0.00	454.88
			16-Feb-04 3:45 PM	22.66	0.00	453.97
			04-Mar-04 9:45 AM	21.61	0.00	455.02
			15-Mar-04 10:40 AM	21.61	0.00	455.02

Table 7
Water Level Measurements and Elevations
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Well Depth (feet BGS)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time	Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Surface Water Stations						
RRB	---	476.63	15-Mar-04 1:20 PM	21.61	0.00	455.02
			31-Mar-04 2:05 PM	21.40	0.00	455.23
			01-Apr-04 10:30 AM	20.96	0.00	455.67
			07-Apr-04 11:40 AM	20.76	0.00	455.87
			08-Apr-04 10:10 AM	20.87	0.00	455.76
			13-Apr-04 1:45 PM	20.91	0.00	455.72
			28-Apr-04 12:42 PM	20.72	0.00	455.91
			29-Apr-04 9:54 AM	19.66	0.00	456.97
			13-May-04 11:45 AM	21.43	0.00	455.20
			10-Jun-04 12:10 PM	20.83	0.00	455.80

NOTES:

1. BGS = below ground surface
2. AMSL = above mean sea level
3. BMP = below well measure point
4. Well depths rounded off to whole foot.
5. (---) = data not collected or available.

* Measuring Point Elevations were re-surveyed in February 2004.

+ Measured during active pumping.

Table 8
Field Water Quality Measurements
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-09	17-Sep-02	4,260	30.50	8.14	8	4.41
	10-Dec-02	3,061	24.86	8.18	136	7.74
	18-Mar-03	3,540	26.90	7.96	65	4.23
	12-Jun-03	3,590	30.20	8.09	67	8.39
	11-Sep-03	3,640	30.53	7.35	77	3.70
	12-Dec-03	3,750	27.38	7.30	55	4.50
	16-Mar-04	3,570	28.69	7.44	109	4.69
	09-Jun-04	3,250	29.10	7.51	124	---
MW-10	17-Sep-02	3,580	30.00	8.19	-25	2.32
	10-Dec-02	3,038	27.54	8.29	12.8	2.57
	18-Mar-03	3,530	28.09	8.18	42	0.75
	12-Jun-03	3,580	29.19	8.16	37	1.07
	11-Sep-03	3,250	29.11	7.46	57	2.30
	12-Dec-03	3,140	28.19	7.48	52	3.30
	16-Mar-04	4,090	28.56	7.41	101	5.63
	10-Jun-04	3,860	28.93	7.28	179	---
MW-11	17-Sep-02	2,640	31.90	8.14	-82	6.09
	10-Dec-02	4,020	26.97	8.24	128	4.62
	18-Mar-03	2,430	28.62	8.04	62	8.30
	12-Jun-03	2,520	29.76	8.10	58	6.48
	11-Sep-03	2,560	29.84	7.44	68	5.90
	12-Dec-03	2,350	27.75	7.37	73	4.50
	16-Mar-04	2,830	29.08	7.42	111	5.90
	10-Jun-04	2,510	29.22	7.17	170	7.04
MW-12	18-Sep-02	4,300	28.30	9.06	-128	4.22
	11-Dec-02	4,015	27.63	9.23	-145	6.05
	20-Mar-03	4,300	28.01	9.28	-52	5.00
	11-Jun-03	4,150	28.71	9.19	-10	6.73
	09-Sep-03	4,360	29.33	8.03	187	6.50
	10-Dec-03	4,480	27.79	8.47	-24	7.20
	16-Mar-04	---	28.83	8.56	141	6.41
	09-Jun-04	4,710	28.34	8.53	67	---
MW-13	17-Sep-02	2,300	27.60	6.63	190	7.40
	10-Dec-02	2,020	27.60	8.31	107	6.72
	21-Mar-03	2,260	26.35	8.29	48	6.38
	12-Jun-03	2,170	29.51	8.17	27	6.39
	13-Sep-03	2,180	28.86	7.55	19	6.90
	12-Dec-03	2,060	27.88	7.53	-13	6.00
	17-Mar-04	---	29.32	7.78	84	6.43
	09-Jun-04	2,270	28.40	7.54	10	---
MW-14	18-Sep-02	1,480	29.60	8.32	-30	7.81
	10-Dec-02	1,035	27.42	8.39	66	8.52
	21-Mar-03	1,700	27.95	8.35	9	7.58

Table 8
Field Water Quality Measurements
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-14	12-Jun-03	1,630	29.27	8.22	-33	6.02
	11-Sep-03	1,660	29.39	7.62	33	6.10
	12-Dec-03	1,540	28.00	7.61	4	6.70
	16-Mar-04	1,770	28.61	7.69	10	7.04
	08-Jun-04	2,930	29.59	7.77	73	---
MW-15	10-Dec-02	1,045	27.81	8.42	112	4.21
	18-Mar-03	1,850	29.12	8.31	11	8.90
	12-Jun-03	1,670	30.47	8.47	47	6.38
	11-Sep-03	1,260	30.54	7.81	20	7.60
	12-Dec-03	1,400	29.16	7.58	10	7.20
	16-Mar-04	2,200	29.37	7.53	-71	7.75
	07-Jun-04	1,660	29.90	8.72	-16	---
MW-16	10-Dec-02	1,031	28.49	8.55	84	2.53
	18-Mar-03	1,210	29.13	8.52	-22	5.00
	12-Jun-03	1,190	30.90	8.50	-28	5.50
	11-Sep-03	1,220	30.60	7.79	-28	3.20
	12-Dec-03	1,200	28.15	7.67	-49	5.60
	16-Mar-04	1,360	29.43	7.81	-7	8.05
	09-Jun-04	1,290	29.41	8.01	21	---
MW-17	18-Sep-02	1,650	29.90	8.57	-150	4.20
	11-Sep-03	1,840	30.46	7.60	39	2.70
	05-Nov-03	1,920	27.61	7.72	43	4.70
	12-Dec-03	1,730	27.78	7.58	29	6.00
	16-Mar-04	2,030	29.35	7.60	15	5.31
	07-Jun-04	1,870	32.25	8.86	50	---
MW-18	18-Sep-02	1,320	29.60	8.32	10	8.02
	10-Dec-02	1,035	27.42	8.39	66	8.52
	18-Mar-03	1,200	27.09	8.26	69	9.90
	12-Jun-03	1,300	30.40	8.28	65	7.43
	11-Sep-03	1,360	29.65	7.62	91	7.80
	12-Dec-03	1,300	27.69	7.58	21	7.80
	16-Mar-04	1,450	28.58	7.65	55	8.51
	09-Jun-04	1,660	28.53	7.54	101	---
MW-19	10-Dec-02	2,058	27.37	8.34	108	6.14
	21-Mar-03	2,620	27.76	8.43	56	7.25
	13-Sep-03	2,500	29.03	7.56	64	7.00
	10-Dec-03	2,480	27.40	7.58	81	7.40
	16-Mar-04	---	29.00	7.82	92	7.18
	08-Jun-04	4,390	29.18	7.74	68	---
MW-20-070	17-Sep-02	3,660	30.00	8.09	137	5.15
	11-Dec-02	3,043	28.20	8.23	41	4.90
	20-Mar-03	4,210	27.80	8.43	40	4.70
	11-Jun-03	3,770	31.41	8.15	62	3.85

Table 8
Field Water Quality Measurements
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-20-070	09-Sep-03	3,660	30.64	7.50	113	4.30
	10-Dec-03	3,680	28.48	7.61	82	6.20
	03-Mar-04	---	28.71	7.38	147	4.30
	15-Mar-04	---	27.97	7.60	198	5.44
	11-May-04	3,560	30.42	7.04	---	7.95
	11-Jun-04	4,360	30.10	7.71	35	6.58
MW-20-100	17-Sep-02	6,080	30.10	8.30	135	3.01
	11-Dec-02	5,079	27.82	8.44	2	1.55
	20-Mar-03	5,870	29.41	8.50	-20	1.91
	11-Jun-03	5,730	31.37	8.38	31	1.59
	09-Sep-03	6,010	30.41	7.61	95	0.90
	10-Dec-03	15,900	28.28	7.80	53	3.80
	03-Mar-04	---	28.73	7.54	138	3.20
	15-Mar-04	---	29.36	7.60	155	3.58
	11-May-04	5,460	29.87	7.49	---	6.44
	11-Jun-04	6,330	30.20	7.94	8	4.20
MW-20-130	17-Sep-02	20,000	32.10	8.40	102	3.97
	11-Dec-02	19,001	28.90	8.41	1	2.29
	20-Mar-03	19,400	29.24	8.49	17	3.03
	11-Jun-03	19,000	31.09	8.30	34	1.90
	09-Sep-03	20,000	32.14	7.59	110	4.50
	10-Dec-03	19,100	26.45	7.81	48	3.20
	03-Mar-04	---	27.85	7.43	153	2.80
	15-Mar-04	---	28.35	7.96	177	4.31
	11-May-04	12,000	29.86	6.90	---	8.35
	11-Jun-04	13,800	30.10	8.08	8	4.66
MW-21	18-Sep-02	13,000	28.50	7.58	-198	0.25
	11-Dec-02	13,005	26.30	7.70	-176	1.59
	21-Mar-03	15,600	27.25	7.96	-230	0.28
	12-Jun-03	13,900	28.68	7.61	-192	0.14
	10-Sep-03	14,400	30.25	7.13	-69	3.90
	04-Nov-03	15,900	27.82	6.05	3	5.90
	11-Dec-03	15,800	26.42	7.08	-105	3.80
	14-Jan-04	18,200	26.34	7.32	-101	4.10
	26-Feb-04	22,300	26.29	6.78	-95	4.20
	16-Mar-04	---	29.11	6.78	-157	2.70
	14-Apr-04	3,140	28.17	7.17	-110	8.06
	11-May-04	11,100	28.30	7.19	-125	---
	08-Jun-04	11,300	29.09	7.89	-69	---
MW-22	18-Sep-02	32,000	30.10	7.05	-143	1.21
	12-Dec-02	34,007	23.20	7.36	-143	0.02
	19-Mar-03	28,900	20.32	7.28	-161	1.36
	10-Jun-03	27,300	24.73	8.15	-156	0.29

Table 8
Field Water Quality Measurements
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-22	10-Sep-03	33,900	30.79	6.60	-102	1.00
	11-Dec-03	32,600	22.75	6.97	-23	3.30
	19-Mar-04	33,100	22.46	6.96	-162	---
	07-Jun-04	24,500	25.40	6.95	-67.1	2.60
MW-23	18-Sep-02	18,300	27.80	7.53	-182	1.62
	11-Dec-02	20,008	26.37	7.66	-196	0.98
	20-Mar-03	19,900	27.69	7.94	-148	0.99
	11-Jun-03	19,400	29.07	7.78	-155	0.55
	09-Sep-03	20,700	28.24	7.09	-84	1.80
	11-Dec-03	21,000	26.00	7.42	-198	2.60
	15-Mar-04	---	29.51	6.79	-196	3.86
	16-Mar-04	---	27.55	7.03	100	6.21
	07-Jun-04	17,300	28.46	7.66	-66	4.86
	08-Jun-04	17,400	28.75	7.18	4	---
MW-24A	17-Sep-02	4,290	31.60	8.35	151	5.71
	11-Dec-02	3,046	26.36	7.27	212	3.41
	18-Mar-03	3,650	27.90	8.50	12	3.31
	12-Jun-03	3,850	29.10	8.71	-150	3.52
	11-Sep-03	3,600	29.29	7.79	16	2.90
	10-Dec-03	3,620	28.46	7.86	16	4.70
	17-Mar-04	---	29.26	7.96	59	6.53
	08-Jun-04	3,450	29.19	7.80	27	---
MW-24B	10-Dec-02	12,400	25.81	8.83	85	1.31
	18-Mar-03	13,700	29.10	8.71	-24	1.47
	12-Jun-03	14,400	30.98	8.65	13	1.87
	11-Sep-03	14,700	31.07	8.28	-41	2.70
	10-Dec-03	15,300	29.37	8.09	-47	2.90
	17-Mar-04	---	30.37	8.35	-46	2.03
	08-Jun-04	13,100	30.20	7.92	66	3.02
MW-24BR	18-Sep-02	16,900	29.10	8.50	-188	2.20
	11-Dec-02	17,000	30.37	8.52	-302	1.09
	18-Mar-03	15,200	26.25	8.49	-297	0.89
	12-Jun-03	15,800	32.38	8.38	-359	0.08
	11-Sep-03	15,900	32.04	7.81	-294	0.60
	10-Dec-03	16,800	30.55	7.94	-317	2.40
	16-Mar-04	---	32.41	7.85	-380	---
	17-Mar-04	---	32.03	8.10	-276	1.87
	07-Jun-04	14,400	33.13	8.95	-312	2.03
	08-Jun-04	14,200	32.68	8.20	-225	3.96
MW-25	17-Sep-02	1,910	29.20	7.85	173	4.60
	10-Dec-02	1,078	28.30	8.24	112	6.33
	19-Mar-03	1,980	28.43	8.24	56	6.57
	12-Jun-03	1,920	30.46	8.07	63	3.45

Table 8
Field Water Quality Measurements
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-25	13-Sep-03	1,800	29.94	7.48	64	5.00
	12-Dec-03	1,650	28.59	7.63	-39	6.10
	03-Mar-04	---	28.39	7.44	157	4.40
	17-Mar-04	---	29.75	7.77	99	7.37
	14-May-04	1,980	30.10	7.56	53	7.40
	09-Jun-04	1,950	29.02	7.25	125	7.27
MW-26	18-Sep-02	3,590	30.10	8.09	-29	7.21
	11-Dec-02	3,025	28.50	8.11	-40	3.00
	20-Mar-03	3,700	28.97	8.50	-62	6.32
	11-Jun-03	3,480	30.89	8.12	-18	2.94
	09-Sep-03	3,790	31.03	7.25	77	6.40
	10-Dec-03	4,000	26.73	7.42	61	7.40
	03-Mar-04	---	29.63	7.36	158	4.30
	16-Mar-04	---	30.43	7.90	164	9.14
	14-May-04	4,130	30.30	7.52	56	---
	08-Jun-04	3,540	30.38	7.51	91	8.01
MW-27	19-Sep-02	1,110	21.70	8.30	-208	1.00
	12-Dec-02	1,004	18.79	8.55	-208	0.00
	19-Mar-03	1,370	18.53	8.34	-182	0.83
	10-Jun-03	980	20.37	9.15	-213	0.05
	10-Sep-03	1,100	21.80	7.57	-183	0.20
	04-Nov-03	1,130	20.95	7.87	-172	3.30
	11-Dec-03	938	19.49	7.72	-177	3.10
	13-Jan-04	1,420	19.50	7.86	-188	2.30
	29-Jan-04	1,160	17.66	7.83	-204	1.60
	05-Feb-04	883	18.78	7.87	-211	2.10
	12-Feb-04	950	17.73	7.85	-200	3.70
	19-Feb-04	1,070	18.19	7.92	-190	---
	19-Feb-04	1,060	18.09	7.87	-180	---
	26-Feb-04	1,340	17.03	7.86	-190	1.90
	03-Mar-04	---	18.09	7.53	-211	1.30
	10-Mar-04	---	21.23	7.55	-157	2.41
	17-Mar-04	938	19.29	7.62	-234	2.57
	24-Mar-04	1,150	21.10	7.64	-219	2.97
	31-Mar-04	955	22.40	7.46	-198	3.85
	07-Apr-04	835	19.95	7.48	-152	1.89
	13-Apr-04	1,140	21.36	7.61	-176	1.06
	21-Apr-04	706	20.70	7.64	-266	3.70
	28-Apr-04	848	21.40	7.55	-215	3.30
	05-May-04	940	21.80	7.63	-261	3.70
	12-May-04	940	21.40	7.71	---	3.90
	19-May-04	755	23.00	7.76	-220	5.10
	26-May-04	724	20.30	7.37	---	3.70
	02-Jun-04	849	22.00	7.29	-196	5.70

Table 8
Field Water Quality Measurements
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-27	08-Jun-04	680	20.50	7.36	-139.1	3.80
MW-28-25	19-Sep-02	1,550	25.10	8.39	-115	1.94
	12-Dec-02	1,069	23.66	8.37	-84	0.23
	20-Mar-03	3,200	23.02	8.41	-143	0.00
	10-Jun-03	1,930	24.39	9.09	-173	0.00
	10-Sep-03	1,430	25.93	7.43	-110	1.00
	04-Nov-03	1,480	25.22	7.87	-106	3.30
	11-Dec-03	1,450	23.99	7.87	-170	3.40
	13-Jan-04	1,770	23.92	7.60	-77	2.10
	29-Jan-04	1,970	23.54	7.55	-72	2.00
	05-Feb-04	1,240	23.50	7.65	-111	2.00
	12-Feb-04	1,260	22.84	7.65	-111	1.70
	20-Feb-04	1,810	23.46	7.52	-47	0.50
	20-Feb-04	1,830	23.14	7.63	-6	1.29
	26-Feb-04	1,860	22.57	7.67	-113	2.20
	04-Mar-04	---	24.94	7.61	92	2.90
	10-Mar-04	---	24.57	7.69	-115	2.44
	17-Mar-04	2,290	24.22	7.44	-169	3.56
	24-Mar-04	2,490	26.00	7.40	-163	3.55
	31-Mar-04	1,580	26.10	7.39	-134	3.84
	07-Apr-04	1,590	23.38	7.33	-130	3.11
	13-Apr-04	1,550	24.59	7.37	-140	4.78
	21-Apr-04	1,210	24.50	7.39	-222	3.50
	28-Apr-04	1,470	25.10	7.36	-200	2.20
	05-May-04	1,520	26.60	7.35	-210	2.50
	11-May-04	1,140	25.00	7.56	-175	4.20
	20-May-04	1,370	24.70	7.20	-149	3.40
	26-May-04	1,420	24.20	7.08	---	3.70
	02-Jun-04	1,550	27.00	7.29	-137	4.50
	07-Jun-04	1,420	25.60	7.36	-93.5	3.80
MW-28-90	29-Apr-04	11,400	23.60	8.20	-329	2.10
	10-Jun-04	11,100	23.20	8.08	-183.5	2.38
MW-29	19-Sep-02	23,500	24.60	7.95	-210	0.00
	11-Dec-02	7,018	24.47	7.73	-213	0.00
	20-Mar-03	14,300	24.65	7.85	-173	0.00
	11-Jun-03	8,630	24.73	7.63	-255	0.10
	10-Sep-03	5,700	25.23	7.14	-207	0.20
	11-Dec-03	7,180	24.46	7.34	-242	3.00
	19-Feb-04	15,900	25.08	7.52	-157	0.79
	18-Mar-04	---	25.66	7.70	-164	1.93
	13-Apr-04	4,250	24.48	7.25	-191	0.21
	11-May-04	3,030	25.20	7.49	-275	3.30
	09-Jun-04	2,730	25.00	7.29	-158.1	2.59

Table 8
Field Water Quality Measurements
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-30-30	19-Sep-02	60,200	27.00	7.37	-138	1.04
	12-Dec-02	61,006	25.72	7.23	-98	0.09
	20-Mar-03	44,100	25.45	7.53	-137	0.09
	10-Jun-03	40,100	28.23	8.43	-153	0.70
	10-Sep-03	62,200	28.67	6.81	-145	0.30
	04-Nov-03	65,600	26.20	7.11	-161	2.00
	11-Dec-03	54,800	25.64	7.04	-130	2.60
	14-Jan-04	70,000	25.25	6.67	-109	1.70
	29-Jan-04	62,800	25.40	6.86	-139	1.90
	05-Feb-04	44,800	25.15	7.01	-142	1.80
	12-Feb-04	32,200	25.36	7.04	-149	1.90
	19-Feb-04	53,600	26.38	7.29	-117	0.19
	19-Feb-04	49,500	26.31	7.29	-124	0.69
	26-Feb-04	58,900	25.20	7.07	-139	1.90
	04-Mar-04	---	25.70	7.04	-118	0.80
	11-Mar-04	---	26.65	7.50	-121	0.50
	18-Mar-04	48,300	27.44	6.98	-160	1.45
	24-Mar-04	48,700	27.70	7.00	-172	2.80
	31-Mar-04	47,500	28.80	6.87	-151	3.97
	07-Apr-04	43,000	26.25	7.16	-122	1.26
	14-Apr-04	99,900	26.56	7.08	-155	0.18
	21-Apr-04	48,300	27.30	6.86	-167	2.60
	28-Apr-04	51,400	28.70	6.87	-154	2.20
	05-May-04	50,900	28.50	6.86	-190	2.30
	12-May-04	44,100	27.00	6.92	---	2.50
	20-May-04	44,200	26.90	7.03	-166	2.70
	26-May-04	58,300	27.50	6.80	---	2.60
	03-Jun-04	38,900	27.60	6.96	-185	2.60
	09-Jun-04	38,700	27.30	6.91	-99.1	3.31
MW-30-50	19-Mar-03	9,630	26.06	8.27	-9	0.00
	10-Jun-03	11,200	26.59	9.48	-201	0.00
	10-Sep-03	11,900	27.43	7.25	-234	0.10
	04-Nov-03	10,300	26.24	7.44	-227	3.10
	12-Dec-03	3,070	25.85	7.42	-324	2.00
	14-Jan-04	3,350	25.52	7.95	-344	1.70
	29-Jan-04	6,390	25.68	7.39	-209	2.00
	05-Feb-04	7,050	25.59	7.37	-136	1.90
	12-Feb-04	6,300	25.05	7.29	-161	1.90
	19-Feb-04	9,600	26.11	7.44	-166	0.43
	19-Feb-04	11,100	26.76	7.45	-54	0.33
	26-Feb-04	10,200	25.55	7.41	-173	2.20
	05-Mar-04	---	26.37	7.29	-75	1.50
	11-Mar-04	---	26.89	7.60	-42	1.36
	18-Mar-04	10,800	27.72	7.36	-66	0.36

Table 8
Field Water Quality Measurements
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-30-50	25-Mar-04	11,900	27.50	7.54	-45	3.30
	01-Apr-04	10,000	27.70	7.53	-15	2.12
	08-Apr-04	---	26.71	6.83	70	0.24
	15-Apr-04	10,600	27.40	7.23	26	2.30
	22-Apr-04	10,900	26.70	7.20	27	2.00
	29-Apr-04	11,600	26.90	7.28	26	1.90
	06-May-04	12,000	27.70	7.25	16	2.10
	14-May-04	10,600	26.90	7.34	47	2.40
	20-May-04	11,500	27.60	7.39	11	2.60
	27-May-04	11,200	28.30	7.35	---	2.60
	03-Jun-04	10,500	28.30	7.35	13	2.80
	09-Jun-04	10,400	27.10	7.37	-22.8	2.88
MW-31-060	17-Sep-02	3,350	29.10	8.04	163	7.00
	11-Dec-02	3,033	27.58	8.27	46	5.95
	21-Mar-03	3,320	24.16	8.51	75	8.13
	11-Jun-03	3,150	29.99	8.17	75	7.53
	09-Sep-03	3,280	29.92	7.52	144	6.70
	10-Dec-03	3,220	27.36	7.66	87	6.10
	03-Mar-04	---	28.05	7.45	160	4.80
	16-Mar-04	---	29.84	7.88	149	6.98
	14-May-04	3,310	29.00	7.61	51	7.20
	08-Jun-04	3,790	29.14	7.66	80	8.46
MW-31-135	16-Apr-04	13,500	29.50	7.96	-150	2.10
	10-Jun-04	13,100	29.58	7.68	-30	0.60
MW-32-20	19-Mar-03	6,290	23.41	7.20	-138	0.09
	10-Jun-03	6,650	25.72	7.65	-144	0.15
	10-Sep-03	7,190	27.78	6.61	-114	0.70
	04-Nov-03	12,000	26.39	7.02	-148	2.90
	11-Dec-03	11,900	24.39	7.05	-118	3.00
	13-Jan-04	11,600	23.41	7.13	-117	2.60
	18-Feb-04	7,500	24.07	6.64	-133	1.70
	18-Feb-04	7,890	24.03	6.64	-143	2.10
	04-Mar-04	---	23.73	6.99	-151	1.70
	18-Mar-04	---	24.86	7.35	-148	1.38
	13-Apr-04	8,080	25.16	6.82	-139	0.31
	12-May-04	8,270	26.10	6.79	-183	3.50
	07-Jun-04	7,540	26.20	6.76	-121.4	3.20
MW-32-35	19-Mar-03	6,340	24.52	7.90	-170	0.00
	10-Jun-03	8,130	24.87	8.53	-283	0.00
	10-Sep-03	7,370	26.09	7.10	-245	0.10
	04-Nov-03	6,940	25.25	7.34	-218	3.00
	11-Dec-03	6,580	24.75	7.29	-254	2.40
	13-Jan-04	8,480	24.82	7.20	-255	2.00

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Field Water Quality Measurements
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-32-35	18-Feb-04	7,100	25.27	7.48	-225	---
	04-Mar-04	---	25.58	7.35	-193	1.90
	18-Mar-04	---	26.10	7.71	-165	1.34
	13-Apr-04	6,500	25.57	7.29	-167	0.17
	12-May-04	7,460	26.20	7.19	-218	3.00
	08-Jun-04	7,390	25.80	6.95	-129.8	3.10
MW-33-40	19-Mar-03	3,840	26.55	9.30	-5	1.20
	11-Jun-03	4,160	26.96	7.59	-267	1.01
	10-Sep-03	18,000	27.82	7.63	-200	0.40
	04-Nov-03	17,000	26.87	7.88	-185	2.90
	11-Dec-03	16,300	26.48	7.80	-258	2.70
	13-Jan-04	17,900	26.68	7.76	-229	2.40
	19-Feb-04	7,810	26.54	8.29	-168	1.19
	18-Mar-04	4,440	27.48	8.28	-181	1.36
	14-Apr-04	16,400	26.60	8.20	-71	3.36
	12-May-04	5,530	27.50	8.48	-243	3.00
	09-Jun-04	4,720	27.40	8.44	-108.4	5.17
MW-33-90	19-Mar-03	7,130	26.78	8.73	-192	0.00
	11-Jun-03	7,760	29.98	7.83	-252	1.81
	12-Sep-03	9,270	27.29	7.34	-224	0.90
	04-Nov-03	10,000	27.12	7.88	-215	2.60
	13-Jan-04	13,200	26.28	7.75	-146	3.30
	17-Feb-04	8,000	26.94	8.01	-81	0.37
	17-Feb-04	7,930	27.70	8.05	-167	0.83
	18-Mar-04	8,140	27.22	7.76	-107	0.25
	14-Apr-04	26,000	26.93	7.77	-264	0.32
	06-May-04	9,750	27.30	7.64	9	2.30
	13-May-04	9,060	28.20	7.73	-42	3.10
	20-May-04	9,610	27.60	7.86	-53	2.80
	26-May-04	8,980	27.80	7.77	-171	3.20
	03-Jun-04	9,480	28.50	7.68	-61	3.10
MW-34-55	16-Jun-03	11,500	23.18	7.93	-178	0.00
	17-Jun-03	9,040	22.98	7.85	-182	0.00
	10-Sep-03	5,830	24.49	7.50	-319	0.00
	04-Nov-03	7,270	23.09	7.65	-275	2.30
	12-Dec-03	2,770	22.88	6.66	-214	2.80
	13-Jan-04	3,690	22.30	7.86	-28	2.30
	29-Jan-04	8,690	22.85	7.35	-144	2.00
	05-Feb-04	8,710	22.66	7.41	-153	2.30
	12-Feb-04	7,900	22.21	7.39	-165	2.00
	18-Feb-04	10,900	22.75	7.51	-186	0.07
	18-Feb-04	11,200	23.05	7.55	-258	---
	26-Feb-04	13,100	22.34	7.45	-115	2.20
	04-Mar-04	---	23.21	7.38	-97	1.40

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Field Water Quality Measurements
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-34-55	11-Mar-04	---	24.00	7.70	-88	1.32
	17-Mar-04	12,200	23.27	7.28	-134	---
	24-Mar-04	14,500	23.70	7.36	-200	2.16
	31-Mar-04	11,000	24.30	7.25	-113	2.49
	07-Apr-04	11,100	23.30	7.32	-112	2.51
	15-Apr-04	10,400	24.00	7.18	-134	3.20
	22-Apr-04	12,300	23.10	7.19	-140	2.10
	29-Apr-04	11,100	23.10	7.26	-135	2.00
	06-May-04	11,100	23.50	7.22	-150	2.20
	13-May-04	10,000	23.50	7.26	-153	3.00
	19-May-04	9,500	23.90	7.77	-138	2.70
	27-May-04	10,400	23.40	7.42	-140	2.30
	02-Jun-04	16,300	23.80	7.31	-141	2.40
	08-Jun-04	9,700	23.20	7.17	-62.6	2.90
MW-34-80	16-Jun-03	15,400	23.68	7.80	-194	0.06
	17-Jun-03	13,300	23.32	7.78	-180	0.00
	10-Sep-03	16,000	24.70	7.30	-314	0.00
	04-Nov-03	16,700	23.47	7.84	-215	2.30
	11-Dec-03	15,700	22.86	7.86	-307	1.90
	13-Jan-04	14,000	22.99	7.74	-268	1.90
	29-Jan-04	11,500	22.82	7.68	-145	1.60
	05-Feb-04	13,200	22.65	7.74	-179	2.20
	12-Feb-04	12,300	22.41	7.71	-184	2.10
	18-Feb-04	14,700	23.07	7.92	-259	---
	18-Feb-04	15,400	22.83	7.93	-125	0.61
	26-Feb-04	26,900	22.32	7.76	-40	2.90
	05-Mar-04	---	22.90	7.74	73	1.40
	11-Mar-04	---	23.78	7.97	-63	1.01
	17-Mar-04	15,500	23.07	7.50	-112	---
	25-Mar-04	15,300	24.00	7.58	-135	2.50
	01-Apr-04	14,000	25.00	7.56	-77	2.35
	08-Apr-04	---	23.26	6.85	-31	0.09
	16-Apr-04	13,400	24.20	7.26	-83	2.20
	22-Apr-04	14,400	23.60	7.22	-81	2.10
	29-Apr-04	15,400	23.50	7.30	-101	2.00
	06-May-04	15,600	24.20	7.22	-97	2.00
	13-May-04	14,400	24.70	7.28	-107	3.20
	20-May-04	15,900	23.90	7.39	-92	2.50
	27-May-04	14,700	24.30	7.41	-82	2.40
	02-Jun-04	15,000	24.40	7.27	-81	2.80
	08-Jun-04	13,700	23.80	7.19	-25.8	2.80
MW-35-060	15-Apr-04	6,380	26.90	7.52	-53	2.80
	10-Jun-04	7,580	27.70	7.72	92.5	3.81
MW-35-135	15-Apr-04	12,300	28.20	7.75	-247	3.00

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Field Water Quality Measurements
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-35-135	10-Jun-04	12,500	27.79	7.48	14	2.02
MW-36-020	18-May-04	11,700	26.10	7.34	-265	3.50
	15-Jun-04	11,000	26.56	7.32	-182	---
MW-36-040	18-May-04	9,420	26.70	7.31	-271	3.20
	16-Jun-04	8,890	27.77	7.24	-192	---
MW-36-050	19-May-04	8,606	26.50	6.30	-31.5	2.15
	17-Jun-04	9,500	26.80	7.24	-219	3.74
MW-36-070	19-May-04	12,770	27.06	6.44	-88	0.63
	17-Jun-04	13,300	27.10	6.98	-201	3.90
MW-36-090	18-May-04	15,300	27.20	7.58	-53	2.50
	15-Jun-04	16,000	27.05	7.51	103	7.48
MW-36-100	21-May-04	15,900	26.20	8.17	-134	2.50
	15-Jun-04	16,500	26.39	7.88	-85	---
MW-37D	19-May-04	14,000	30.70	8.42	-125	2.90
	11-Jun-04	13,800	30.65	7.62	-152	0.40
MW-37S	19-May-04	4,230	29.50	7.84	-106	3.60
	10-Jun-04	5,180	29.50	7.76	-59.6	4.09
MW-38D	05-May-04	24,900	30.80	7.96	4	2.20
	10-Jun-04	21,900	30.93	7.75	-61	0.48
MW-38S	14-May-04	4,260	29.50	7.61	17	3.50
	11-Jun-04	4,430	30.00	7.22	127	0.24
	17-Jun-04	4,560	30.08	7.48	17	0.20
MW-39-040	20-May-04	5,495	27.20	7.20	-172.8	6.99
	18-Jun-04	6,470	27.80	7.59	-220	3.14
MW-39-050	20-May-04	6,983	27.34	7.07	330.8	2.69
	18-Jun-04	9,380	28.30	7.49	-40	3.48
MW-39-060	20-May-04	6,484	27.17	7.33	278	1.21
	18-Jun-04	7,700	28.30	7.80	-98	3.49
MW-39-070	20-May-04	8,438	27.60	7.16	230	---
	18-Jun-04	8,580	27.80	7.40	29	3.33
MW-39-080	20-May-04	11,480	27.24	6.98	332	6.68
	17-Jun-04	11,900	27.90	7.46	-12	4.80
MW-39-100	21-May-04	16,200	27.60	7.92	-2	4.60
	15-Jun-04	17,300	28.50	7.68	163.5	5.04
MW-40D	10-May-04	17,000	33.80	7.70	-105	2.30
	14-Jun-04	17,100	32.98	7.38	-42.1	0.18
MW-40S	11-May-04	2,320	30.90	8.03	64	7.40
	14-Jun-04	2,090	31.36	7.75	51	6.44
Park-Moabi	18-Mar-03	1,200	21.24	8.54	---	---
	04-Nov-03	1,540	22.70	8.20	51	7.60

Table 8
Field Water Quality Measurements
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
Park-Moabi	11-Dec-03	1,340	27.21	8.11	-88	6.60
	16-Mar-04	---	24.15	7.03	204	8.29
	09-Jun-04	2,150	33.32	7.57	-81	4.76
PGE-06	09-Sep-03	4,550	29.57	7.62	-71	0.20
	09-Dec-03	5,020	27.93	7.62	-31	2.50
PGE-07	10-Dec-03	17,200	26.32	8.26	94	4.10
PGE-08	09-Dec-03	21,600	30.83	8.08	-269	2.10
TW-01	17-Mar-04	---	32.59	7.73	79	5.68
Surface Water Stations						
A-Dock	08-Sep-03	947	27.33	7.72	176	10.60
	17-Feb-04	1,250	15.30	7.44	194	11.60
CON	18-Sep-02	804	20.10	8.83	51	11.39
	12-Dec-02	1,009	13.75	9.15	---	---
	20-Mar-03	1,020	14.67	9.72	---	---
	11-Jun-03	887	19.13	8.89	-15	11.22
	08-Sep-03	936	21.89	7.83	186	9.50
	10-Dec-03	969	13.07	8.45	81	9.80
	17-Feb-04	951	11.99	8.19	141	8.40
	15-Mar-04	1,090	16.13	7.55	128	10.04
	14-Apr-04	695	19.00	8.19	107	10.90
	12-May-04	1,110	18.07	8.04	---	12.75
	10-Jun-04	776	20.10	8.40	---	10.36
I-3	18-Sep-02	813	19.20	8.60	23	10.84
	12-Dec-02	1,012	13.43	9.25	---	---
	19-Mar-03	804	13.55	5.67	---	---
	10-Jun-03	990	18.37	6.19	235	11.97
	08-Sep-03	977	22.58	8.19	127	12.30
	09-Dec-03	1,110	13.68	8.42	45	10.00
	16-Feb-04	2,160	11.06	7.71	130	9.60
	15-Mar-04	1,090	14.85	6.91	226	11.05
	13-Apr-04	708	17.90	7.59	165	13.60
	13-May-04	1,040	19.50	7.98	---	11.48
Needles-1	08-Sep-03	951	22.73	6.57	224	9.30
	16-Feb-04	1,080	12.75	7.89	194	9.43
NR-1	08-Sep-03	945	22.46	7.04	208	9.90
	16-Feb-04	1,080	12.14	7.91	213	9.34
	16-Mar-04	---	16.19	8.03	213	9.98
	13-Apr-04	719	19.00	8.34	121	13.00
	13-May-04	1,150	17.65	8.05	---	10.60
	11-Jun-04	683	18.70	8.24	95.2	10.29
NR-2	08-Sep-03	948	22.55	7.61	192	9.50
	16-Feb-04	1,090	11.96	7.80	223	8.94

Table 8
Field Water Quality Measurements
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Surface Water Stations						
NR-2	16-Mar-04	---	15.83	8.21	203	9.94
	13-Apr-04	712	18.90	8.30	135	12.30
	13-May-04	1,120	17.63	8.04	---	10.52
	11-Jun-04	670	18.50	8.18	157.8	9.75
NR-3	17-Feb-04	1,060	11.17	8.07	210	9.20
	16-Mar-04	---	15.82	8.32	199	9.81
	13-Apr-04	712	18.70	8.28	141	12.20
	13-May-04	1,010	17.65	8.08	---	9.97
	11-Jun-04	672	18.70	8.50	135.2	9.92
R-22	18-Sep-02	804	22.30	8.75	5	11.06
	12-Dec-02	1,068	14.00	9.32	---	---
	19-Mar-03	900	13.67	9.12	---	---
	10-Jun-03	935	18.78	9.13	74	11.86
	10-Sep-03	1,150	20.06	7.91	56	6.90
	11-Dec-03	1,020	13.19	8.49	41	9.60
	16-Feb-04	1,650	11.20	8.31	133	8.20
	15-Mar-04	1,090	15.68	7.73	161	9.89
	14-Apr-04	681	17.50	8.03	134	10.60
	12-May-04	1,100	17.48	8.07	---	12.77
	10-Jun-04	734	18.10	8.55	---	9.24
R-27	18-Sep-02	803	20.60	8.27	41	11.08
	12-Dec-02	1,003	13.65	9.42	---	---
	19-Mar-03	818	14.32	9.13	---	---
	10-Jun-03	980	21.09	9.88	-73	10.03
	10-Sep-03	1,030	21.16	7.77	-89	5.20
	11-Dec-03	686	13.39	8.30	-65	9.50
	16-Feb-04	1,550	11.41	8.50	125	8.20
	03-Mar-04	---	14.09	8.27	129	4.40
	15-Mar-04	1,070	17.30	7.76	159	9.71
	14-Apr-04	699	19.60	8.14	139	10.20
	12-May-04	1,100	19.95	7.93	---	12.36
	10-Jun-04	752	19.10	8.61	---	9.08
R-28	18-Sep-02	804	20.30	8.40	40	10.11
	12-Dec-02	1,012	14.59	9.04	---	---
	19-Mar-03	1,020	14.51	9.02	---	---
	10-Jun-03	980	20.16	9.86	-49	10.66
	10-Sep-03	1,130	21.71	8.06	-130	7.20
	11-Dec-03	936	13.48	8.38	-119	9.50
	16-Feb-04	1,070	11.36	8.57	111	8.40
	03-Mar-04	---	13.61	8.24	131	3.60
	15-Mar-04	1,100	16.22	7.80	130	9.95
	14-Apr-04	680	18.10	8.12	133	10.70
	12-May-04	1,110	18.90	8.04	---	11.97

Table 8
Field Water Quality Measurements
September 2002 through June 2004
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Surface Water Stations						
R-28	10-Jun-04	762	18.60	8.53	---	9.27
RRB	12-Dec-02	4,078	14.60	8.69	---	---
	20-Mar-03	1,000	18.12	9.58	---	---
	11-Jun-03	1,040	22.05	8.96	-64	10.62
	08-Sep-03	964	25.52	7.80	143	11.10
	08-Dec-03	1,350	14.26	6.12	163	9.00
	16-Feb-04	1,090	13.28	8.48	164	10.20
	15-Mar-04	1,080	20.30	7.50	174	11.09
	13-Apr-04	831	24.90	8.14	118	12.40
	13-May-04	1,030	20.47	8.12	---	8.71
Vernal-Pool	18-Sep-02	817	23.00	7.88	59	11.30

NOTES:

1. µS/cm = microSiemens per centimeter
2. ORP = oxidation reduction potential
3. mV = millivolts
4. mg/L = milligrams per liter
5. All field measurements were collected during groundwater / surface water sampling using a Horiba U-22 water quality meter and/or Orion pH/ORP meter.
6. (--) = data not collected or not available

Figures

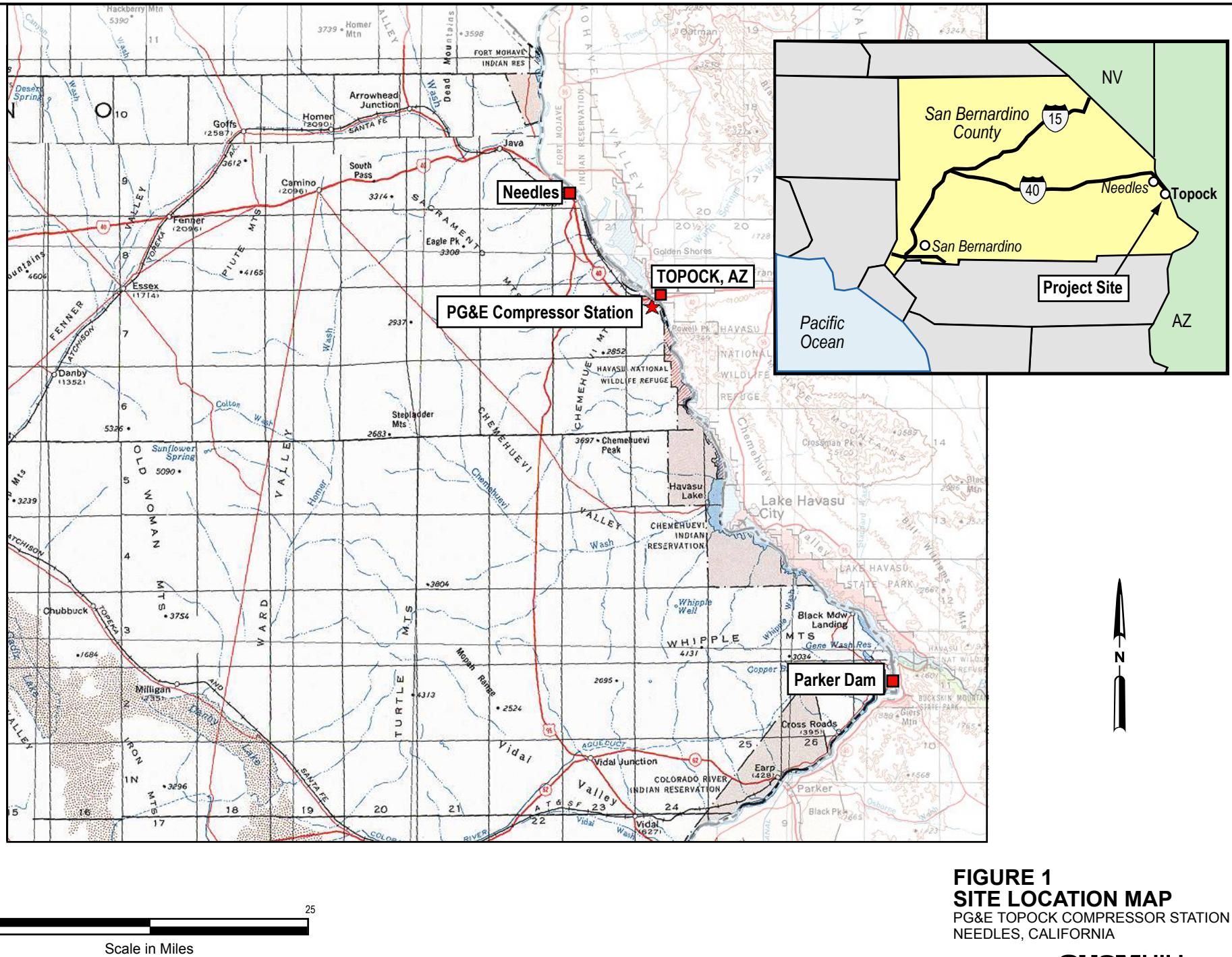


FIGURE 1

SITE LOCATION MAP

PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

- CH2MHILL -

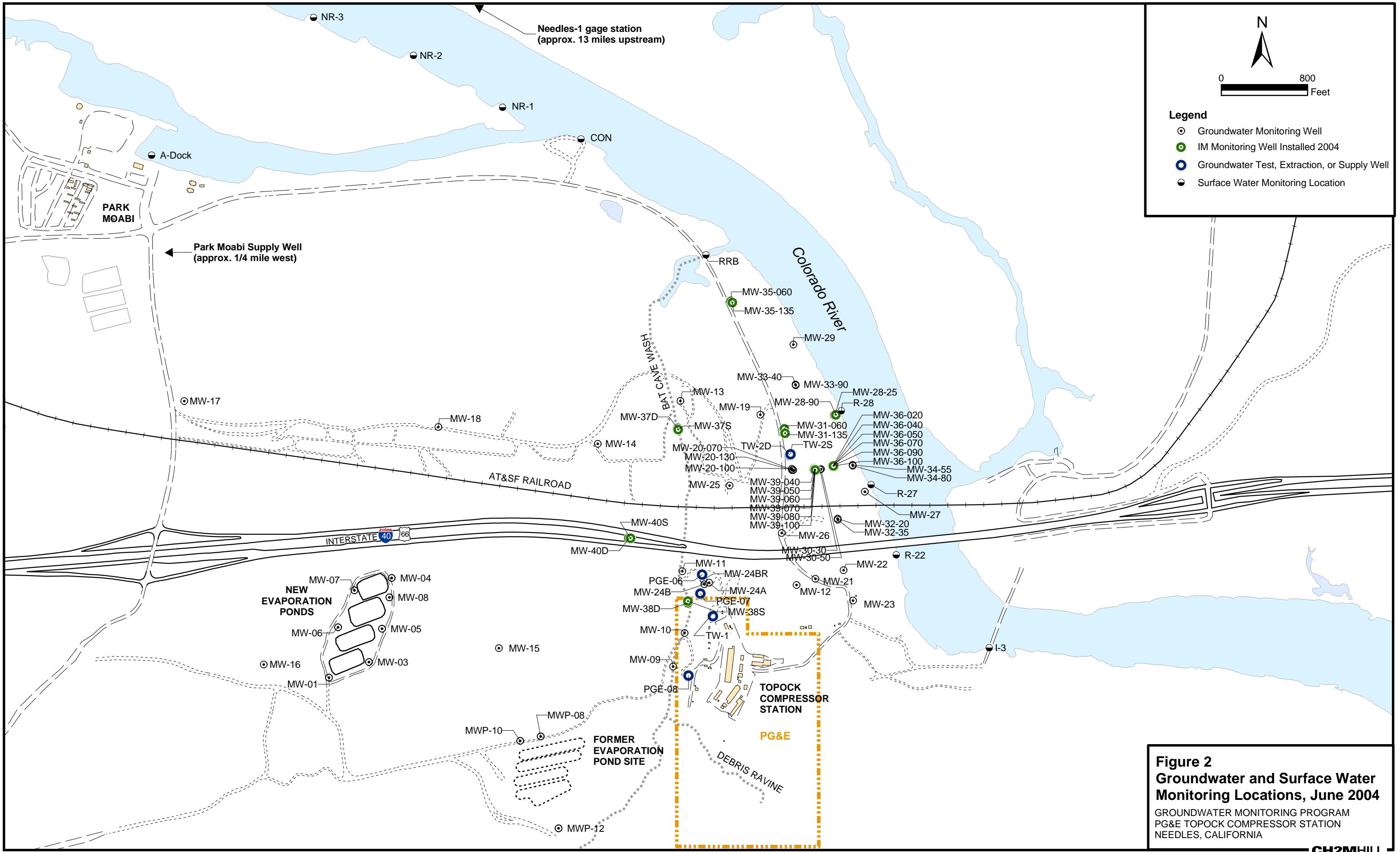
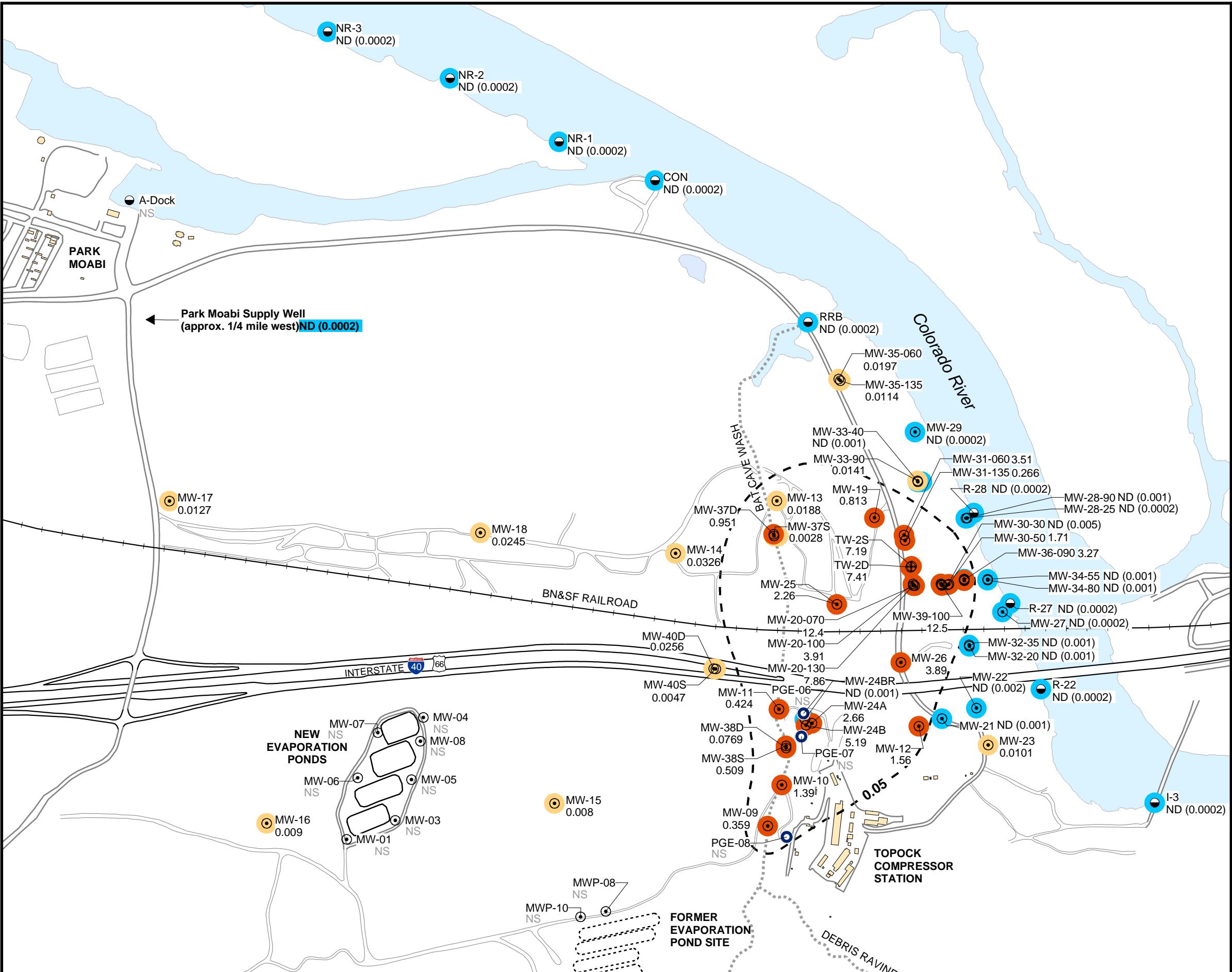


Figure 2
**Groundwater and Surface Water
Monitoring Locations, June 2004**

GROUNDWATER MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

— CH2MHILL —

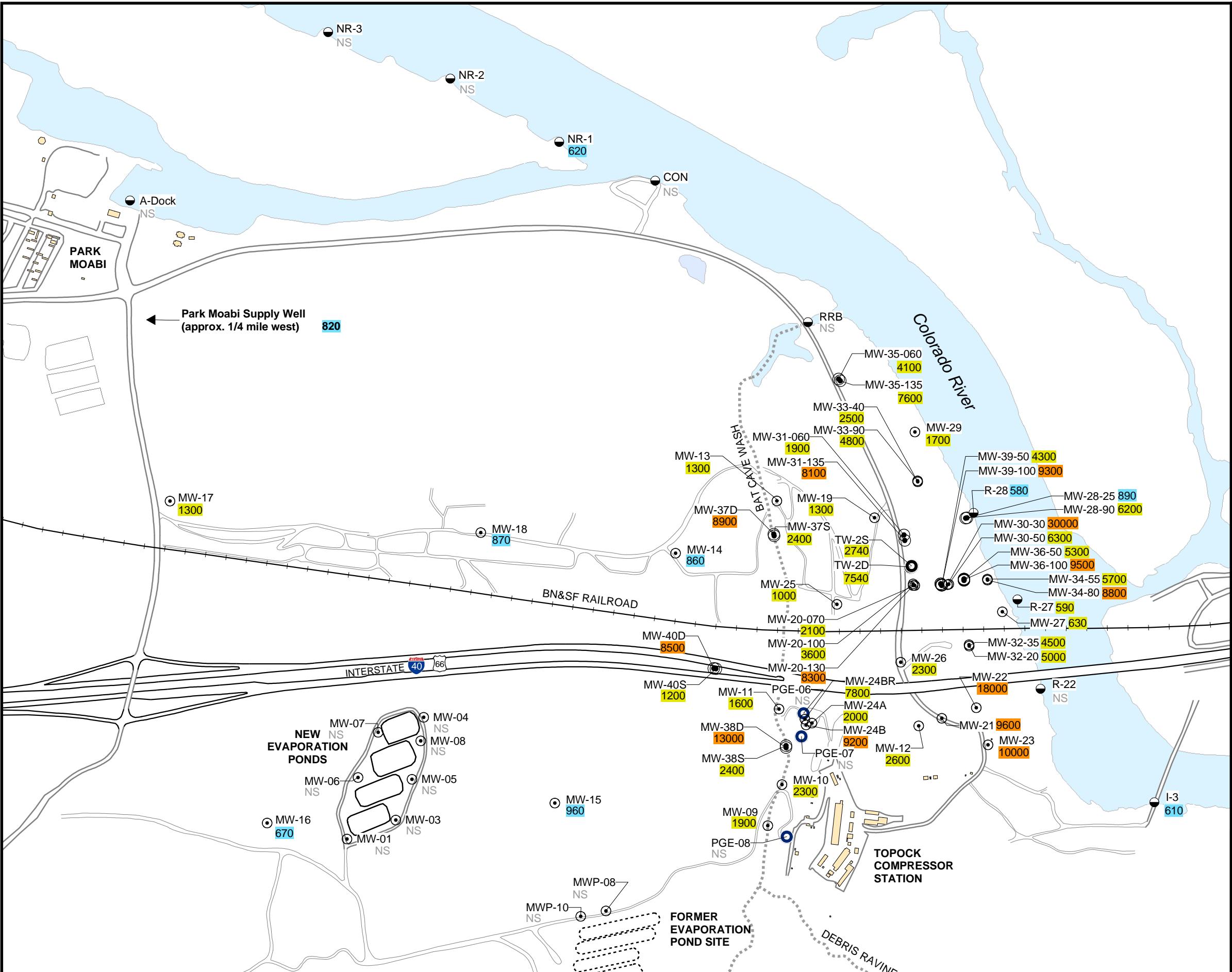


Legend

- Groundwater Monitoring Well
- Groundwater Test, Extraction, or Supply Well
- Surface Water Monitoring Location
- ⊕ Extraction Well
- Sampling conducted June 7-17, 2004
- 3.47 Concentration of hexavalent chromium [Cr(VI)] in milligrams per liter (mg/L)
Results shown are maximum concentrations of primary and duplicate samples
- ND (0.0002) Cr(VI) not detected, at analytical detection
- NS Not sampled
- Cr(VI) Concentrations in Water Samples**
- Not detected at analytical reporting limit
- Concentration between reporting limit and 0.05 mg/L
- Concentration greater than 0.05 mg/L
- Approximate outline of Cr(VI) in groundwater ≥ 0.05 mg/L (California drinking water standard for Total Chromium)

Figure 3
Hexavalent Chromium Sampling Results
June 2004 Quarterly Event
Groundwater and Surface Water Monitoring

GROUNDWATER MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA



Legend

- Groundwater Monitoring Well
- IM Monitoring Wells Installed 2004
- Groundwater Test, Extraction, or Supply Well
- Surface Water Monitoring Location

Sampling conducted May - June, 2004

MW-10
2300 Concentration of Total Dissolved Solids (TDS) in groundwater and surface water samples in milligrams per liter (mg/L).

For new IM well cluster MW-36 and MW-39, results are listed for maximum TDS concentration and representative shallow zone well at well cluster. See Table 5 for results for other MW-36 and MW-39 wells.

NS Not sampled

TDS Concentrations in Water Samples

900	Concentration less than 1,000 mg/L
2500	Concentration between 1,000 and 8,000 mg/L
10000	Concentration greater than 8,000 mg/L

N

0 750 1,500
Feet

Figure 4
Total Dissolved Solids in Groundwater and Surface Water
June 2004 Quarterly Monitoring Event

GROUNDWATER MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA