

Yvonne J. Meeks

Topock Project Manager Chromium Remediation Project Office Gas Transmission & Distribution 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 E-Mail: YJM1@pge.com

April 2, 2007

Mr. Aaron Yue Project Manager California Department of Toxic Substances Control 5796 Corporate Avenue Cypress, CA 90630

Subject: Groundwater and Surface Water Monitoring Report, Fourth Quarter 2006 and

Annual Summary

PG&E Topock Compressor Station, Needles, California

Dear Mr. Yue:

Enclosed is the Groundwater and Surface Water Monitoring Report, Fourth Quarter 2006 and Annual Summary for the Pacific Gas And Electric Company (PG&E) Topock Compressor Station. This report presents the results of the fourth quarter 2006 groundwater and surface water monitoring activities under the Topock Groundwater and Surface Water Monitoring Program (GMP). In addition, this report also serves as an annual report and provides a summary of groundwater and surface water monitoring results for samples collected in 2006 under the GMP. Further, this report provides recommended changes to the GMP for future monitoring activities.

With this submittal, PG&E respectfully requests DTSC approval of the recommendations outlined in Section 5.1. With completion of the data collection effort for the Groundwater RCRA Facility Investigation/Remedial Investigation (RFI/RI) in the near future, and nearly 10 years of groundwater and surface water monitoring activities at the site, now is an appropriate time to re-visit the purpose and objectives of the Topock GMP.

PG&E looks forward to your timely approval. If you have any questions on the groundwater and surface water monitoring report, please call me at (805) 234-2257.

Sincerely,

Enclosure

cc: Chris Guerre/DTSC

Karen Baker/DTSC

Geonne Meks

Groundwater and Surface Water Monitoring Report, Fourth Quarter 2006 and Annual Summary

PG&E Topock Compressor Station Needles, California

Prepared for

California Department of Toxic Substances
Control

On Behalf of

Pacific Gas and Electric Company

April 2, 2007



155 Grand Avenue, Suite 1000 Oakland, CA 94612

Groundwater and Surface Water Monitoring Report Fourth Quarter 2006 and Annual Summary

PG&E Topock Compressor Station Needles, California

Prepared for

California Department of Toxic Substances Control

On Behalf of Pacific Gas and Electric Company

April 2, 2007

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

Paul Bertucci, C.E.G. No. 1977

Project Hydrogeologist

Contents

Sectio	n		Page									
Acron	yms an	nd Abbreviations	v									
1.0	Introduction and Background											
	1.1	Background										
		1.1.1 Objectives of the Topock GMP and Relationship to Other Site										
		Monitoring Programs	1-1									
		1.1.2 GMP Background										
	1.2	GMP Monitoring Frequency History										
	1.3	Sampling Procedure Modification										
	1.4	Surface Water Monitoring Modification										
	1.5	Access Routes										
	1.6	Current GMP Monitoring Activity										
2.0	Fourth	h Quarter 2006 Monitoring Activities	2-1									
	2.1	Summary of Monitoring and Sampling	2-1									
		2.1.1 Site COC Analyses	2-2									
		2.1.2 Title 22 Metals	2-2									
		2.1.3 In-channel Surface Water Analyses	2-3									
3.0	Fourth	h Quarter 2006 Monitoring Results	3-1									
	3.1	Site COC Analytical Results	3-1									
		3.1.1 Groundwater	3-1									
		3.1.2 Surface Water	3-2									
	3.2	Additional Analytes Results	3-2									
	3.3	Analytical Data Quality Review										
	3.4	Water Level Monitoring										
	3.5	Field Parameter Data										
4.0	Summ	nary of 2006 GMP Monitoring Results	4-1									
	4.1	Site COC Analytical Results										
		4.1.1 Groundwater	4-1									
		4.1.2 Surface Water	4-2									
	4.2	Additional Analytes Results	4-2									
		4.2.1 Additional Surface Water Analytes	4-2									
		4.2.2 Additional Water Quality Characterization										
		4.2.3 CCR Title 22 Metals										
	4.3	Water Level Monitoring										
	4.4	MAROS Results										
5.0	Status	s of GMP Monitoring Activities and Proposed Changes to Future										
		Monitoring Activities	5-1									
	5.1	Recommended GMP Changes for 2007										
	5.2	Upcoming GMP Events										

6.0 References 6-1

Tables

- 1 Topock GMP Monitoring Frequency Changes Through December 2006
- 2 Well Construction and Sampling Summary, December 2006
- 3 Groundwater COC Sampling Results, December 2005 through December 2006
- 4 Shoreline Surface Water COC Sampling Results, December 2005 through December 2006
- 5 In-Channel Surface Water COC and Additional Parameters Sampling Results, December 2005 through December 2006
- 6 Title 22 Metals Results, September 2004 through December 2006
- 7 Manual Water Level Measurements, December 2005 through December 2006
- 8 Field Water Quality Measurements, December 2005 through December 2006
- 9 Summary of 2006 Quarterly Monitoring Activities

Figures

- 1 Site Location Map
- 2 Monitoring Locations and Sampling Frequency for GMP, December 2006
- 3 Surface Water Monitoring Locations, December 2006
- 4A Cr(VI) Sampling Results, Upper Depth Interval of Aquifer, 4th Quarter 2006 Monitoring Event
- 4B Cr(VI) Sampling Results, Middle Depth Interval of Aquifer, 4th Quarter 2006 Monitoring Event
- 4C Cr(VI) Sampling Results, Lower Depth Interval of Aquifer, 4th Quarter 2006 Monitoring Event
- 5 Groundwater Elevation Map for Upper Interval (Water Table), December 18, 2006 Water Level Survey
- 6 Cr(VI) Sampling Results, Hydrogeologic Section A, October 2006

Appendices

- A Field Data Sheets and Chain of Custody Records, December 2006
- B Additional Water Quality Characterization, March 2006
- C Hydrographs, January through December 2006
- D Evaluation of Sampling Frequencies of Topock GMP Monitoring Wells, 2005-2006

BAO\070920002

Acronyms and Abbreviations

CACA Corrective Action Consent Agreement

CCR California Code of Regulations

COC constituent of concern

Cr(T) total dissolved chromium

Cr(VI) hexavalent chromium

DTSC California Department of Toxic Substances Control

GMP Groundwater and Surface Water Monitoring Program

IM Interim Measures

μg/L micrograms per liter

MAROS Monitoring and Remediation Optimization System

mg/L milligrams per liter

PG&E Pacific Gas and Electric Company

RFI RCRA facility investigation

SAFPM Sampling, Analysis, and Field Procedures Manual

SAP Sampling and Analysis Plan

TDS Total dissolved solids

TSS Total suspended solids

USEPA United States Environmental Protection Agency

BAO\070920002

1.0 Introduction and Background

This report presents the results of the fourth quarter 2006 groundwater and surface water monitoring activities conducted at Pacific Gas and Electric Company's (PG&E) Topock Compressor Station under the Topock Groundwater and Surface Water Monitoring Program (GMP). In addition, this report also serves as an annual report and provides a summary groundwater and surface water monitoring results for samples collected in 2006 under the Topock GMP. Further, this report provides recommended changes to the GMP for future monitoring activities.

The Topock GMP is part of a Resource Conversation and Recovery Act 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 (United States Environmental Protection Agency [USEPA] ID No. CAT080011729). The Topock Compressor Station is located in eastern San Bernardino County, 15 miles southeast of the city of Needles, California, as shown on Figure 1. All figures are located at the end of this document.

1.1 Background

1.1.1 Objectives of the Topock GMP and Relationship to Other Site Monitoring Programs

The Topock GMP was initiated in 1998 as a continuation of the RFI groundwater investigations. The purpose of the Topock RFI is to identify and evaluate the nature and extent of hazardous waste and constituent releases at the compressor station. Since 1996 there have been six phases of investigation at the Topock site to collect data to complete the RFI; these phases have included well installation, pore water and sediment sampling, and ongoing groundwater and surface sampling. Groundwater monitoring data collected between July 1997 and June 2004 are presented in the *Draft RCRA Facility Investigation and Remedial Investigation Report*, dated February 2005 (CH2M HILL, 2005a). A final Groundwater RFI/RI will be prepared in 2007 that will present groundwater and surface water monitoring data collected between 1997 and 2007 from over 100 wells at the site.

Currently, PG&E is implementing an Interim Measure (IM) at the Topock site that consists of groundwater extraction for hydraulic control of the groundwater plume boundaries in the Colorado River floodplain and management of extracted groundwater. The IM facilities include a groundwater extraction system , conveyance piping, a groundwater treatment plant, and an injection well field for discharge of the treated groundwater. Simultaneous with the GMP (whose purpose is to collect data for completion of the RFI), PG&E also maintains three separate monitoring programs to monitor the effectiveness and regulatory compliance of the IM operations. These programs include:

• The Performance Monitoring Program in the floodplain area near the active extraction system.

- The Compliance Monitoring Program in the injection area near the active injection system.
- Process monitoring within the treatment plant.

The IM monitoring programs are reported separately from the GMP, and data collected for the IM monitoring programs in 2006 is not repeated in this report. PG&E is also currently implementing an *in-situ* pilot study on the floodplain of the Colorado River. A separate monitoring program has been established to evaluate the performance of the *in-situ* pilot study.

1.1.2 GMP Background

As discussed above, routine groundwater and surface water monitoring activities were initiated in 1997 as a continuation of the RFI groundwater investigation. The program initially consisted of quarterly sampling of the monitoring wells and surface water stations established during the RFI, as well as periodic sampling of inactive supply wells. Beginning in November 2003, at DTSC's request, the GMP expanded to include additional wells and more frequent sampling at select locations.

In July 2004, at the request of DTSC (DTSC, 2004a), PG&E submitted a *Sampling and Analysis Plan, Groundwater and Surface Water Monitoring* (SAP) (CH2M HILL, 2004) that described the scope, schedule, and sampling and analysis procedures for the GMP. Additionally, the SAP recommended modifications to the monitoring locations, analyses, and sampling frequency for the GMP. On August 26, 2004, PG&E received verbal approval from the DTSC to implement the sampling plan modifications proposed in the July 2004 SAP.

Before August 26, 2004, the wells and surface water monitoring locations were sampled for the site constituents of concern (COCs) defined in the 1996 CACA. The site COCs listed in the CACA include hexavalent chromium [Cr(VI)], total dissolved chromium [Cr(T)], copper, nickel, zinc, electrical conductivity (also referred to as specific conductance), and pH.

As proposed in the July 2004 SAP and approved by DTSC, the parameters analyzed in the GMP include the primary site COCs (Cr(VI), Cr(T), specific conductance, and pH, and the California Code of Regulations (CCR) Title 22 full list of metals (including copper, nickel, and zinc) at selected groundwater monitoring wells. In addition, the GMP included groundwater and surface water elevation data and field water quality data collection.

Beginning in March 2004, as directed by DTSC (DTSC, 2004b), PG&E initiated the IM program. One of the provisions for the IM activity requested by DTSC was the collection of analytical data from selected sampling locations near the pumping operation in the Colorado River floodplain. Analytical data from selected sampling locations near the pumping operation is collected both for purposes of the GMP, as well as for evaluation of the IM performance.

On April 11 2005, as required by DTSC, PG&E submitted the *Monitoring Plan for Ground-water and Surface Water Monitoring Program, PG&E Topock Compressor Station* (CH2M HILL, 2005b). This updated monitoring plan provided the objectives, scope, and schedule for the GMP, including sampling frequency, well network, analytical parameters, and rationale. DTSC provided preliminary comments on May 24, 2005 (DTSC, 2005a) that approved the

inclusion of 11 additional monitoring wells in the GMP. DTSC has not yet provided final comments or approval of the April 2005 monitoring plan.

Companion documents to the GMP include the Sampling, Analysis, and Field Procedures Manual PG&E Topock Program and the Quality Assurance Project Plan for Water Quality Sampling and Analysis (CH2M HILL, 2005c-d). The Sampling, Analysis, and Field Procedures Manual (SAFPM) contains field procedures for groundwater and surface water sample collection and other field data collection activities at the Topock site. The Quality Assurance Project Plan contains the quality assurance and quality control requirements for water quality sampling and analysis activities to ensure that environmental data are of the appropriate quality to achieve the project objectives and is provided as an appendix to the SAFPM (CH2M HILL, 2005c). DTSC has not yet provided final comments or approval of the March 2005 SAFPM.

The wells screened in the unconsolidated alluvial fan and fluvial deposits, which comprise the Alluvial Aquifer, have been separated into three depth intervals for presentation of groundwater quality and groundwater level data. The depth intervals of the Alluvial Aquifer — designated upper, middle, and lower — are based on grouping the monitoring wells screened at common elevations and do not represent distinct hydrostratigraphic units or separate aquifer zones. The subdivision of the aquifer into three depth intervals is an appropriate construct for presenting and evaluating groundwater quality data at the site. The three-interval concept is also useful for presenting and evaluating lateral gradients while minimizing effects of vertical gradients and observing the influence of pumping from partially-penetrating wells. It should be noted, however, that these divisions do not correspond to any lithostratigraphic layers within the aquifer. The Alluvial Aquifer is considered to be hydraulically undivided.

1.2 GMP Monitoring Frequency History

Numerous changes have been made to the sampling frequency under the GMP since the July 2004 SAP. These changes have included modification to the sampling frequency and the incorporation of new monitoring wells into the sampling program. Table 1 presents a chronologic summary of agency requirements and directives issued since the July 2004 SAP regarding modifications to the sampling frequency for GMP monitoring wells through December 2006.

TABLE 1
Topock GMP Monitoring Frequency Changes Through December 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Direction	Date	DTSC Approval ^a	New Frequency and Wells
Comments on July 2004 SAP	1/25/2005	DTSC 2005b	Quarterly Title 22 Metals: MW-10, MW-11, MW-12, MW-20-70, MW-20-130, MW-25, MW-34-55, MW-34-80, and MW-37D
IM Contingency Plan in response to MW-34-100 chromium levels	2/16/2005	DTSC 2005c	<u>Weekly</u> : MW-34-80, MW-34-100, MW-27-85, MW-27-60 <u>Weekly</u> (3 weeks): R-22, R-27, CON
Revised Contingency Plan sampling frequency	5/5/2005	DTSC 2005d	<u>Weekly</u> : MW-34-100 <u>Biweekly</u> : MW-27-85, MW-34-80

TABLE 1Topock GMP Monitoring Frequency Changes Through December 2006 *PG&E Topock Groundwater and Surface Water Monitoring Program*

Direction	Date	DTSC Approval ^a	New Frequency and Wells
			Monthly: MW-27-60
Preliminary comments to Monitoring Plan; incorporation of new floodplain wells	5/24/2005	DTSC 2005a	Weekly: MW-34-100 <u>Biweekly</u> : MW-27-85 <u>Monthly</u> : MW-27-60, MW-33-150, MW-33-210, MW-42-30, MW-42-55, MW-42-65, MW-43-25, MW-43-75, MW-43-90
Approval of sampling plan for depth-specific surface water sampling	6/30/2005	DTSC 2005e	Quarterly: C-CON, C-I-3, C-NR1, C-NR3, C-NR4, C-R22, C-R27, C-TAZ (monthly during low-river stages, usually November – January)
Reduction in sampling frequency through September 2005 due to health and safety issues	7/20/2005	DTSC 2005f	Biweekly: MW-34-100 Monthly: MW-27-85, MW-28-90, MW-33-150, MW-33-210, MW-34-80, MW-36-90, MW-36-100, MW-39-80, MW-39-100, MW-43-75, MW-43-90
Modification to sitewide sampling frequency	9/6/2005	DTSC 2005g	Monthly: MW-27-85, MW-28-90, MW-33-210, MW-34-80, PE-1 Quarterly: MW-27-26, MW-27-20, MW-28-25, MW-29, MW-30-30, MW-30-50, MW-32-20, MW-32-35, MW-34-55, MW-36-20, MW-36-60, MW-36-50, MW-39-60, MW-42-30, MW-42-35, MW-42-55, MW-42-65, TW-2D Semiannually: MW-9, MW-10, MW-11MW-15, MW-16, MW-17, MW-18, MW-24A, MW-24B, MW-38S, MW-38D, OW-3S, OW-3M, OW-3D Biennial: TW-1
Addition of new depth- specific surface water station	9/16/2005	DTSC – e-mail	Quarterly: C-MAR (monthly during low-river stages, usually November – January)
Initial sampling with conditional approval of well installation work plan	1/6/2006	DTSC 2006a	Monthly: (3 months, April - June) MW-44-70, MW-44-115, MW-44-125, MW-46-175, MW-46-205
Addition of monthly wells with PE-1 start approval	1/26/2006	DTSC 2006b	Monthly: MW-36-70, MW-39-70
Initiation of biweekly sampling of two new wells	3/17/2006	DTSC – e-mail	Biweekly: MW-44-115, MW-44-125
Transition of two wells to weekly sampling	4/13/2006	DTSC - phone	Weekly: MW-44-115, MW-44-125
Establish concentration trend for new well	4/25/2006	DTSC - e-mail	Biweekly: MW-46-175
Transition of two wells back to biweekly sampling	5/19/2006	DTSC – e-mail	Biweekly: MW-44-115, MW-44-125
Interim sampling frequency for new wells	5/25/2006	DTSC - e-mail	Biweekly: MW-44-115, MW-44-125, MW-46-175 Monthly: MW-46-205 Quarterly: MW-44-70, MW-47-55, MW-47-115, MW-48, MW-49-135, MW-49-275, MW-49-365, MW-50-95, MW-50-200, MW-51, TW-4, TW-5

TABLE 1
Topock GMP Monitoring Frequency Changes Through December 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Direction	Date	DTSC Approval ^a	New Frequency and Wells
Interim transition of two wells to quarterly sampling	6/6/2006	DTSC – e-mail	Quarterly: MW-43-75 and MW-43-90
Modification to sitewide sampling frequency *	10/26/06	DTSC 2006c	Biweekly: MW-34-100 Monthly: MW-27-85, MW-34-80, MW-36-90, MW-6-100, MW-39-80, MW-39-100, MW-44-115, MW-44-125, MW-46-175 Quarterly: MW-10, MW-12, MW-19, MW-20-70, MW-20-100, MW-20-130, MW-21, MW-23, MW-4A, MW-24B, MW-24BR, MW-28-90, MW-32-20, MW-32-35, MW-33-40, MW-37-90, MW-33-150, MW-33-210, MW-36-70, MW-37D, MW-39-40, MW-39-70, MW-40D, MW-42-55, MW-42-65, MW-47-55, MW-47-115, MW-44-70, MW-46-205, MW-47-55, MW-47-115, MW-48, MW-49-135, MW-49-275, MW-49-365, MW-50-95, MW-50-200, MW-51 Quarterly (monthly during low river): CON, I-3, NR-1, NR-2, NR-3, R-22, R-27, R-28, RRB Semiannually: MW-13, MW-14, MW-18, MW-22, MW-25, MW-26, MW-31-60, MW-31-135, MW-35-60, MW-35-135, MW-37S, MW-41S, MW-41M, MW-41D, MW-42-30, MW-43-25, OW-3S, OW-3M, OW-3D, TW-4 Annually: MW-9, MW-11, MW-27-20, MW-27-60, MW-28-25, MW-29, MW-34-55, MW-36-20, MW-36-40, MW-36-50, MW-38S, MW-38D, MW-39-50, MW-39-60, MW-40S, TW-2S, TW-2D, TW-5 Biennially: MW-15, MW-16, MW-17, MW-30-30, TW-1, PGE-7, PGE-8, Park Moabi

^a Referenced approval letters are identified in Section 6.0.

Table includes monitoring frequency change directives in effect for events conducted through December 2006.

1.3 Sampling Procedure Modification

At DTSC's request, in the spring of 2005, a chromium filtration comparison test was performed to evaluate the effects, if any, of field filtering versus laboratory filtering of samples collected for chromium analysis. The chromium results of groundwater samples collected from 16 wells during the March 2005 and April 2005 monthly monitoring events were statistically analyzed and evaluated to determine the effects of the two filtering approaches. From the results of the filtration comparison test, it was recommended that samples analyzed for Cr(VI) by USEPA Methods 7199 and 7196A should be filtered in the laboratory, and samples analyzed for Cr(T) by USEPA Method 6010B should be filtered and preserved in the field after sample collection (CH2M HILL, 2005c). In a June 2005 letter, DTSC agreed with the recommendations and directed the changes to be initiated for the July 2005 monthly event (DTSC, 2005b). Since July 2005, all groundwater samples analyzed for Cr(T)

^{*} All wells are listed rather than only wells with changes.

by USEPA Method 6010B are being filtered and preserved in the field after sample collection.

1.4 Surface Water Monitoring Modification

In an April 26, 2005 letter (DTSC, 2005c), DTSC directed PG&E to submit a revised Section 5.0 of the monitoring plan (CH2M HILL, 2005b) to include a plan for depth-specific surface water sampling in the Colorado River to supplement the existing shoreline surface water sampling program. A Revised Sampling Plan and Standard Operating Procedure for Depth-Specific Surface Water Sampling was submitted to DTSC on May 16, 2005 (CH2M HILL, 2005e). DTSC provided conditional approval and comments on the revised Section 5.0 on June 30, 2005 (DTSC, 2005d). The Revised Sampling Plan and Standard Operating Procedure for Depth-Specific Surface Water Sampling (CH2M HILL, 2005f) that incorporated DTSC comments was submitted on July 13, 2005 with eight in-channel stations. An additional sampling station was added in September 2005 (CH2M HILL, 2005g). The depth-specific surface water sampling program was initiated in July 2005. To date, the in-channel surface water sampling has occurred quarterly during normal river stages and monthly during low river stages (typically November through January). As shown in Table 1, the surface water monitoring program was recently revised to reflect consistent monitoring frequencies for the shoreline and in-channel surface water locations, which is quarterly during most of the year and monthly during low-river stage (typically November through January) (DTSC, 2006).

1.5 Access Routes

On September 14, 2005, A Review of Access Routes for Groundwater and Surface Water Monitoring Locations, and Proposed Mitigation Procedures (CH2M HILL, 2005h) was submitted to DTSC outlining access route requirements to be followed at all monitoring wells at the site throughout the year. The access procedures for certain wells on the floodplain were revised in April 2006 to address habitat concerns during the southwestern willow flycatcher nesting season (typically May through September) (CH2M HILL, 2006a). The Havasu National Wildlife Refuge and the Bureau of Land Management approved the modifications to the summer procedures in May 2006. These revised access procedures for the floodplain wells were followed during the summer monitoring events conducted between May 1 and September 30, 2006. The access procedures from the September 14, 2005 document remains in effect for the other monitoring wells at the site.

1.6 Current GMP Monitoring Activity

Figure 2 shows the locations and sampling frequencies of the monitoring wells in the GMP as of December 2006, the location of the PG&E Topock Compressor Station, and other site features. Table 2 summarizes information on well construction and sampling methods for all wells in the GMP and other monitoring wells at the site. There are a total of 94 monitoring monitoring wells and two extraction wells that fall under the GMP sampling schedule. Figure 3 presents the locations of the nine shoreline surface water stations and the nine inchannel surface water sampling locations as of December 2006.

As of December 2006, the GMP consists of sample collection at groundwater monitoring wells and surface water sampling stations according to the following schedule:

- All ninety-four of the site monitoring wells are sampled during biennial sampling events (once every 2 years).
- Eighty-six of the monitoring wells are sampled during annual sampling events (twice a year).
- Sixty-eight of the monitoring wells are sampled during semiannual sampling events.
- Forty-eight monitoring wells are sampled during quarterly sampling events. Nine shoreline surface water stations and nine in-channel surface water stations are sampled quarterly and monthly during low-river stages.
- Ten monitoring wells on the floodplain and two active extraction wells are sampled monthly.
- One monitoring well on the floodplain is sampled biweekly (every 2 weeks).

2.0 Fourth Quarter 2006 Monitoring Activities

This section provides a summary of the monitoring and sampling activities completed during the fourth quarter 2006 reporting period and the specific groundwater and surface water analyses performed for the fourth quarter monitoring event.

2.1 Summary of Monitoring and Sampling

GMP monitoring activities in fourth quarter 2006 consisted of:

- The quarterly monitoring event was conducted from December 11 through 15, 2006 and consisted of:
 - Forty-eight groundwater monitoring wells and nine shoreline surface water stations were sampled for analysis of Cr(VI), Cr(T), specific conductance, and pH.
 - Six of the forty-eight wells were sampled for analysis of the full list of CCR Title 22 metals.
 - Duplicate samples were collected at five monitoring wells (MW-20-100, MW-20-130, MW-23, MW-33-90, and MW-36-90) to assess field sampling and analytical procedures.
 - Nine in-channel surface water stations were sampled December 19 and 20, 2006 for analysis of Cr(VI), Cr(T), specific conductance, pH, hardness, total dissolved solids (TDS), and total suspended solids (TSS). All of the in-channel stations were sampled at three depths, except for stations C-MAR and C-R27, where only one depth could be sampled due to the shallow water column.
- A sitewide groundwater level survey was performed on December 18, 2006 to provide data for the generation of a groundwater elevation contour map of the shallow-depth interval of the Alluvial Aquifer for the fourth quarter 2006. Wells outside the GMP program, such as wells constructed to monitor existing evaporation ponds at the Topock Compressor Station or IM injection area, were included in this sitewide groundwater level survey.
- Ten groundwater monitoring wells, two active extraction wells, nine shoreline surface water stations, and nine in-channel surface water stations were sampled as part of the monthly sampling event on November 15 and 16, 2006 for analysis of Cr(VI), Cr(T), specific conductance, and pH. The in-channel samples were also analyzed for hardness, TDS, and TSS.
- A semiannual monitoring event was conducted in October 2006. While technically held during the fourth quarter, it was considered a third quarter event and was reported in the previous groundwater monitoring report (CH2M HILL, 2006b).

• Four biweekly sampling events at select floodplain wells on October 18, November 1, November, 30, and December 28 for analysis of Cr(VI), Cr(T), specific conductance, and pH.

The sampling procedures, field documentation of sampling, water level measurements, and field water quality monitoring were performed in accordance with the *Sampling, Analysis, and Field Procedures Manual, Revision 1*, dated March 31, 2005 (CH2M HILL, 2005c).

The monitoring data presented in this report (Tables 3 through 8) include the results from all events conducted during the fourth quarter 2006, as well as the results from December 2005 through December 2006. Table 6 presents results beginning September 2004, when the sample collection for Title 22 metals commenced.

2.1.1 Site COC Analyses

Samples collected from monitoring wells and surface water stations during fourth quarter 2006 were analyzed for Cr(VI), Cr(T), specific conductance, and pH. The analyses for the site COC parameters were performed by Truesdail Laboratories, Inc., a California-certified analytical laboratory in Tustin, California. In accordance with the SAP, Cr(VI) and Cr(T) were analyzed using the following analytical methods:

- Method SW 7196A was used for samples collected from monitoring wells where prior monitoring has detected Cr(VI) concentrations above 100 micrograms per liter ($\mu g/L$). The minimum reporting limit for Method SW 7196A for undiluted samples is 10 $\mu g/L$.
- Method SW 7199 was used for all surface water samples and all groundwater samples collected from monitoring wells where prior monitoring did not detect Cr(VI) concentrations above 100 μ g/L. The minimum reporting limit for Cr(VI) using Method SW 7199 is 0.2 μ g/L for undiluted samples. Currently, samples from wells MW-34-100, MW-44-115, MW-44-125, and MW-46-175 are analyzed using Method SW 7199, even though prior detections exceeded 100 μ g/L.
- Dissolved Cr(T) was analyzed using Method SW 6010B or Method SW 6020A. Both methods have a reporting limit of 1 μ g/L for undiluted samples.
- Method USEPA 218.6 (equivalent to Method SW 7199), with a reporting limit of 0.2 μg/L, was used for the Cr(VI) water analysis from the domestic supply well at Park Moabi.

2.1.2 Title 22 Metals

In addition to the site COCs, samples from six monitoring wells (MW-10, MW-12, MW-20-70, MW-20-130, MW-34-80, and MW-37D) were analyzed for the CCR Title 22 full list of metals. The Title 22 metals include antimony, arsenic, barium, beryllium, cadmium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc. The groundwater samples for CCR Title 22 dissolved metals analyses were field-filtered. The metals analyses were performed by Emax Laboratories, a California-certified analytical laboratory in Torrance, California.

2.1.3 In-channel Surface Water Analyses

In addition to the site COCs, pH, and specific conductance, the in-channel depth-specific surface water samples collected in fourth quarter 2006 were also analyzed for:

- Hardness (USEPA Method 130.2)
- TDS (USEPA Method 160.1)
- TSS (USEPA Method 160.2)

Emax Laboratories performed the analyses for these parameters, pH, and specific conductance. Truesdail Laboratories performed the Cr(VI) and Cr(T) analyses for the in-channel samples.

3.0 Fourth Quarter 2006 Monitoring Results

This section summarizes the results of the groundwater and surface water sampling completed for the Topock GMP during fourth quarter 2006. Figure 2 shows the locations of the GMP monitoring wells. Figure 3 shows the locations of the shoreline and in-channel surface water monitoring stations in the Colorado River.

The monitoring results and data presented include site COCs, CCR Title 22 metals, and additional in-channel surface water analytical parameters. Laboratory data quality review, water level measurements, and water quality field parameter data are also presented in this section. Complete laboratory reports and analytical documentation are maintained in the project file and are available upon request.

3.1 Site COC Analytical Results

3.1.1 Groundwater

Table 3 presents the results for chromium and other site COCs in groundwater samples collected from December 2005 to December 2006. In fourth quarter 2006, the maximum detected Cr(VI) concentration was 12,000 μ g/L at well MW-20-130. Overall, the fourth quarter 2006 chromium results are consistent with the prior 2006 quarterly sampling results.

Figures 4A through 4C present the Cr(VI) results for wells monitoring the upper, middle, and lower depth intervals of the Alluvial Aquifer, respectively, from the December 2006 quarterly sampling event. Figures 4A through 4C also show the approximate outline of the areas where Cr(VI) was detected in samples at concentrations greater than $50~\mu g/L$ (the California drinking water standard for total chromium).

The approximate outlines of monitoring wells with Cr(VI) concentrations greater than 50 μ g/L in the shallow, middle, and lower depth intervals of the Alluvial Aquifer are similar to the previous quarterly monitoring event (CH2M HILL, 2006b).

Relative to October 2006 monitoring, increasing Cr(VI) concentrations were detected in the December samples at MW-12 (2,050 $\mu g/L$), MW-40D (110 $\mu g/L$), and deep well MW-50-200 (10,100 $\mu g/L$). Wells MW-12 and MW-40D are located upgradient of the capture zone of the IM extraction wells. Although recent concentrations have declined in well MW-39-100, there was an increase from 2,960 $\mu g/L$ in October to 3,820 $\mu g/L$ in December 2006. Declining or stable concentration trends continue to be observed in the other wells in the MW-39 cluster. Two wells in the MW-36 cluster had detectable concentrations (MW-36-90 and MW-36-100). Both had stable concentration trends. The Park Moabi drinking water production well had detections of Cr(VI) (2.00 $\mu g/L$) and Cr(T) (6.30 $\mu g/L$). The Cr(T) detection was below the California drinking water standard of 50 $\mu g/L$.

3.1.2 Surface Water

Table 4 presents the results of chromium and other analytes in shoreline surface water sampling events performed from December 2005 through December 2006. Cr(VI) and Cr(T) were not detected in any of the water samples collected at the nine shoreline surface water stations during the fourth quarter. The Cr(VI) results for the shoreline surface water sampling during fourth quarter 2006 are shown on Figure 4A.

Table 5 presents the results of chromium, other site COCs, TDS, TSS, and hardness analyses for the in-channel surface water sampling events performed from December 2005 through December 2006. Cr(VI) and Cr(T) were not detected in any of the water samples collected at the nine depth-specific surface water stations during the fourth quarter.

3.2 Additional Analytes Results

Table 6 presents the CCR Title 22 metal results for the GMP monitoring wells sampled from September 2004 through December 2006. In addition to Cr(T), the trace metals detected during the December 2006 groundwater sampling event were arsenic, barium, cobalt, copper, lead, molybdenum, nickel, selenium, vanadium, and zinc. Excluding Cr(T) and arsenic, the dissolved concentrations of the trace metals detected during the December 2006 monitoring event are below the respective California drinking water standards.

3.3 Analytical Data Quality Review

The laboratory analytical data from GMP monitoring in fourth quarter 2006 were independently reviewed by project chemists to assess data quality and to identify deviations from analytical requirements. The quality assurance and quality control requirements are outlined in the Quality Assurance Project Plan for the PG&E Topock Program, which is Appendix D of the *Sampling, Analysis, and Field Procedures Manual, Revision 1* (CH2M HILL, 2005c). A detailed discussion of data quality for the GMP sampling data is presented in the data validation reports, which are kept in the project file and are available upon request.

As discussed below, the completeness objectives were met for all method and analyte combinations. No significant analytical deficiencies were identified in the fourth quarter 2006 monitoring data. With minor exceptions (noted below), the analyses and data quality met the laboratory method quality control acceptance criteria. Overall, the analytical data collected in fourth quarter 2006 are considered acceptable for the purpose of monitoring groundwater and surface water conditions at the site.

Matrix Interference: Matrix interference was encountered in groundwater samples from some of the monitoring wells, which affected the sensitivity for Cr(VI) when using Method SW 7199. Results from 17 wells reflect adjusted reporting limits (Table 3) as a result of serial dilutions that were required to overcome the matrix interference and provide acceptable matrix spike recoveries. In most cases, the reporting limit was only raised to 1 or $2 \mu g/L$, far below the California drinking water standard for chromium.

Quantitation and Sensitivity: One groundwater sample that underwent nitrate analysis (E300.0) was analyzed at a dilution and the result was reported as non-detect at an elevated reporting limit

With the exception of the matrix interference issue explained above, all other method and analyte combinations met the project reporting limit objectives.

Holding Time Data Qualification: One groundwater sample submitted for Cr(VI) analysis (SW7196) was analyzed outside the recommended holding time. The detected result was flagged "J" as estimated concentration. All other holding times were met.

Method Blanks: All method blank criteria were met.

Field Blanks: All field blank criteria were met, with the following exception: one equipment blank was outside acceptance criteria and the associated sample result was qualified as estimated (J flagged).

Calibration: All initial and continuing instrument calibration criteria were met.

Matrix Spike Sample: All matrix spike acceptance criteria were met.

Chain of Custody: Each sample was documented in a completed chain-of-custody form and received at the laboratory in good condition. All discrepancies identified in laboratory custody were promptly resolved.

Field Duplicates: Three field duplicate pairs had results that exceeded the relative percent-difference criteria for chromium (SW6010B). Five detected results were qualified as estimated and flagged "J." One non-detected result was qualified as estimated and flagged "UJ." Two field duplicate pairs had results that exceeded the relative percent-difference criteria for hexavalent chromium (SW7199). The detected results were qualified as estimated and flagged "J." All other field duplicate acceptance criteria were met.

Laboratory Control and Duplicate Samples: All laboratory duplicate criteria were met. All laboratory control sample criteria were met with the following exception: the laboratory control samples associated with potassium analyses for MW-31-60, R-27, and R-28 were outside acceptance criteria, and the results were qualified as estimated (J flagged).

Miscellaneous: Data were reviewed against historical results. Two Cr(VI) (SW7199) results differed significantly from the historical data and the current field duplicate result (MW-23 and MW-33-90). No re-analysis was performed due to the fact that some validation occurs well after the holding-time criteria have expired. Accordingly, the Cr(VI) results for these December samples were rejected and flagged "R."

3.4 Water Level Monitoring

Table 7 presents the water level measurements and groundwater and surface water elevations from December 2005 through December 2006 from wells in the GMP, as well as additional wells useful for construction of a groundwater elevation contour map for the shallow, upper depth interval of the Alluvial Aquifer. Table 7 also lists salinity data for the wells where water levels were measured. Groundwater salinity during fourth quarter 2006 ranged from 0.14 percent (MW-19) to 2.64 percent (well MW-49-365)—a range that is consistent with results of prior monitoring. Due to the variation in groundwater salinity at the site, the groundwater elevations measured in the monitoring wells have been adjusted (normalized) to an equivalent freshwater head (Fetter, 1994).

Beginning in June 2005 at DTSC's direction (DTSC, 2005c), a sitewide water level data set has been collected quarterly as part of the GMP to construct a groundwater elevation contour map for the shallow, upper depth interval of the Alluvial Aquifer. A sitewide water level survey was conducted during fourth quarter 2006 on December 18, 2006 that involved the manual collection of groundwater level data at 33 shallow wells within a 4-hour period. Figure 5 presents the groundwater elevation contours for the upper depth interval of the Alluvial Aquifer (shallow monitoring wells). Because groundwater levels at the site fluctuate continuously in response to changes in the river stage, these groundwater elevation contours reflect transient conditions at the time of measurement and may not be representative of the average groundwater flow directions.

Water level contours for the floodplain are not shown in Figure 5. Since inception of the IM activities at the site in March 2004, a network of pressure transducers has been used to collect continuous records of water elevation data in the Alluvial Aquifer (floodplain and IM No. 3 injection areas) and the Colorado River for the analysis and assessment of hydraulic data in the active extraction and injection areas of the site. This network currently includes over 80 transducers. This monitoring is ongoing and is reported as part of the IM activities, rather than in GMP reports. The groundwater elevation data and hydraulic gradients measured in the floodplain area are evaluated monthly and presented in the IM performance monitoring program reports (CH2M HILL 2005i). The groundwater elevation data in the injection area are evaluated and presented in the IM compliance monitoring program reports (CH2M HILL, 2005j).

3.5 Field Parameter Data

A field water quality meter and flow-through cell were used to measure parameters during well purging and groundwater sampling (CH2M HILL, 2005b). Water quality field measurements were also recorded during surface water sampling. Table 8 summarizes the field water quality data collected (specific conductance, temperature, pH, oxidation-reduction potential, and dissolved oxygen) from December 2005 through December 2006. Field data sheets and chain-of-custody records for the December quarterly event are presented in Appendix A.

4.0 Summary of 2006 GMP Monitoring Results

This section summarizes the results of the monitoring events completed for the Topock GMP in 2006. Key observations and data trends for the 2006 monitoring period are presented. Additional discussion and interpretation and analysis of groundwater and surface water data collected under the GMP will be provided in the PG&E's final Groundwater RFI/RI report for the Topock site.

In addition to the fourth quarter monitoring data contained in this report, monitoring data collected under the GMP in 2006 have been reported in the:

- Groundwater and Surface Water Monitoring Report, First Quarter 2006, dated June 1, 2006 (CH2M HILL, 2006c).
- Groundwater and Surface Water Monitoring Report, Second Quarter 2006, dated September 11, 2006 (CH2M HILL, 2006d).
- Groundwater and Surface Water Monitoring Report, Third Quarter 2006, dated December 22, 2006 (CH2M HILL, 2006b).

Table 9 presents a summary of the 2006 GMP quarterly monitoring activities, including the number of wells sampled for site COCs, and Title 22 metals for the quarterly monitoring events in 2006. During 2006, the quarterly events occurred in March, May, October and December. Quarterly events in May and October are timed to occur before and after summer bird nesting season, in order to minimize biological impacts to potential nesting habitat from the field activities during these larger-scale sampling events.

Discussion of IM monitoring activities and assessment of trends in the floodplain area are not repeated in this report and are reported separately under IM performance monitoring program (CH2M HILL, 2005i). Discussion of IM monitoring activities in the IM injection area are reported separately under the IM compliance monitoring program (CH2M HILL, 2005j).

4.1 Site COC Analytical Results

4.1.1 Groundwater

Table 3 presents the results for chromium and other site COCs in groundwater samples collected from December 2005 to December 2006. The maximum detected Cr(T) concentration in GMP monitoring events in 2006 was $16,400~\mu g/L$ at well MW-20-130 (third quarter), and the maximum detected Cr(VI) concentration was $12,000~\mu g/L$ at well MW-20-130 (second and fourth quarters) (Table 3). The Cr(VI) groundwater plume limits (delineated by the $50~\mu g/L$ isoconcentration line) have remained generally stable over the course of 2006, as indicated in Table 3. The December 2006 results are shown on Figures 4A, 4B, and 4C. Figure 6 is a generalized site cross-section that presents the groundwater sampling results from the October 2006 semiannual monitoring event (cross-section location shown on the

inset map on Figure 6). This hydrogeologic section illustrates the elevations of the upper, middle, and lower depth intervals of the Alluvial Aquifer, the screened intervals of monitoring wells cluster and other key wells, and the Cr(VI) results from the October 2006 monitoring event. The cross-section view shows that Cr(VI) concentrations vary laterally and vertically for the sampling locations and depths within the Alluvial Aquifer. More detailed cross-sections showing Cr(VI) sampling results from monitoring wells in the floodplain area are presented in the IM performance monitoring program reports (CH2M HILL, 2005i). For the three wells screened in the bedrock formations, Cr(VI) was not detected in groundwater samples from well MW-24BR (November 2006) or in wells PGE-7 and PGE-8 (December 2005 sampling).

Analytical results for Cr(VI) near the active pumping system of TW-3D and PE-1 are also addressed in detail in monthly and quarterly monitoring reports under the IM performance monitoring program (CH2M HILL, 2005i). Wells with notable decreases in Cr(VI) concentrations over 2006 were: MW-20-70, MW-20-100, MW-25, MW-31-60, MW-31-135, MW-36-90, MW-37D, MW-39-60, MW-39-70, MW-39-80, and MW-39-100 (Table 3). The majority of the wells with decreasing Cr(VI) concentration trends are located in the floodplain, and the decreasing trend is likely a result of the groundwater extraction for the interim measures. The concentration trend for MW-34-100 has shown both short-term declines and increasing concentrations since PE-1 pumping commenced on January 25, 2006. However, since June 2006, concentrations at this well have generally trended downwards (Table 3). Since the initiation of PE-1 pumping, the Cr(VI) concentrations at MW-36-90 have consistently decreased, while concentrations have increased in the deeper well MW-36-100 (from 287 μ g/L in January 2006 to 586 μ g/L in December 2006). The Park Moabi drinking water production well had maximum detections of 9.6 μ g/L for Cr(VI) and 11.0 μ g/L for Cr(T) in 2006. The Cr(T) detection was below the California drinking water standard of 50 μ g/L.

4.1.2 Surface Water

Cr(VI) and Cr(T) were not detected in any of the water samples collected at the nine shoreline surface water stations or the nine in-channel surface water stations collected during 2006 (Tables 4 and 5).

4.2 Additional Analytes Results

4.2.1 Additional Surface Water Analytes

In addition to site COCs, in-channel surface water samples are analyzed for hardness, TDS, and TSS (Table 5). During the 2006 monitoring period, hardness was consistently in the range of 297 to 422 milligrams per liter (mg/L) for all stations. TDS was detected in a range of 570 to 765 mg/L, and TSS was non-detect in all stations, with the exception of the C-MAR station. TDS at C-MAR was 1,410 mg/L in December 2006, and TSS was detected in a range of 20 mg/L to 72 mg/L. The C-MAR location is at the mouth of the Topock Marina where the water is shallow and silty, resulting in the elevated TDS and TSS results (Figure 3). These results are consistent with the 2005 monitoring period.

4.2.2 Additional Water Quality Characterization

To supplement the water quality site characterization, groundwater samples were collected from all monitoring wells and analyzed for additional parameters during the March 2006 monitoring event. The samples were analyzed by Emax Laboratories for additional parameters that are not part of the routine GMP These include TDS (USEPA Method 160.1); chloride, sulfate, nitrate, and bromide (anions; USEPA Method 300.0); calcium, magnesium potassium, sodium, and boron (cations; Method SW 6010B or SW 6020A); alkalinity (USEPA Method 310.1), stable isotopes oxygen 18 and deuterium (CF-IRMS methods); ammonia (USEPA Method 350.2); total organic carbon (USEPA Method 415.2); dissolved silica (USEPA Method 370.1); iron (USEPA Method 6010B or 6020A); and manganese (USEPA Method 6010B or 6020A). The results of these additional analyte results are presented in Appendix B.

4.2.3 CCR Title 22 Metals

Besides Cr(T), the trace Title 22 metals detected in the GMP monitoring wells in 2006 were arsenic, barium, cobalt, copper, lead, molybdenum, nickel, selenium, thallium, vanadium, and zinc (Table 6). With the exception of Cr(T) and arsenic, all of the trace metal detections in 2006 were below the respective California drinking water standards. In 2006, arsenic was detected above the maximum contaminant level in two wells, MW-10 and MW-12. The concentration of Title 22 metals that were consistently detected in monitoring wells remained fairly stable overall during the annual monitoring period.

4.3 Water Level Monitoring

The range of groundwater salinities measured in GMP wells during 2006 water level monitoring remained stable, ranging from 0.05 percent (MW-27-20; May and June) to 3.65 percent (MW-30-30; October) (Table 7).

Appendix C contains groundwater hydrographs for four representative wells in different regions of the site during 2006. Appendix Figures C1 through C4 present hydrographs from wells MW-20-70, MW-26, MW-10, and OW-1S, respectively (all wells equipped with pressure transducers). The 2006 hydrograph for the Colorado River gage station I-3 is also shown on the groundwater hydrographs for the selected wells.

The hydrographs presented on Figures C1 through C4 represent well locations from east to west, moving away from the river. The four selected monitoring wells are all screened in the upper depth interval of the Alluvial Aquifer. The groundwater levels in each of the selected site areas show the seasonal trends of increasing and decreasing water levels associated with the river stage. Additionally, wells that are close to the river, such as MW-20-70, show pronounced groundwater elevation fluctuations in response to the daily river water elevation changes. In contrast, wells that are distant from the river, such as MW-10 and OW-1S, show more muted water level responses to the daily river stage fluctuations. The IM compliance monitoring program reports provide hydrographs for groundwater wells in the injection well field area (CH2M HILL, 2005j), while the IM performance monitoring program reports (CH2M HILL, 2005j) provide assessment of the hydraulic gradients for groundwater wells in the floodplain area.

4.4 MAROS Results

The Monitoring and Remediation Optimization System (MAROS) software was used to evaluate the sampling frequency of monitoring wells in the GMP network for the period of January 2005 to December 2006. MAROS is a modular set of tools that uses simple statistical and heuristic methods to evaluate appropriate sampling frequencies for wells based on past sampling data. MAROS had previously been used to evaluate sampling frequencies at Topock in from second quarter 2002 through first quarter 2006 (CH2M HILL, 2006e). Some new wells installed in 2005 and 2006 were not included in the previous evaluation due to insufficient number of data points. The evaluation performed for this annual report encompasses the new 2005 wells and some 2006 wells that now have sufficient data points to allow evaluation using MAROS. Below is a summary of changes based on the MAROS evaluation and the monitoring needs of the interim measures program. The methodology and details of the evaluation are described in Appendix D.

- Twenty-one wells would have a biennial sampling frequency.
- Twenty-seven wells would have an annual sampling frequency.
- Four wells would have a semiannual sampling frequency.
- Thirty wells would have a quarterly sampling frequency.
- Six wells would have a quarterly sampling frequency.
- One well would have a biweekly sampling frequency.

These recommendations, combined with the monitoring needs of the interim measures program and the current monitoring frequencies for wells without sufficient data for MAROS analysis and bedrock wells, yield the following sampling schedule:

- Biennial sampling events would include 95 wells.
- Annual sampling events would include 71 wells.
- Semiannual sampling events would include 44 wells.
- Quarterly sampling events would include 40 wells.
- Monthly sampling events would include seven wells.
- Biweekly sampling events would include one well.

5.0 Status of GMP Monitoring Activities and Proposed Changes to Future GMP Monitoring Activities

As discussed in Section 1.0, the purpose of the Topock GMP is to collect groundwater and surface water monitoring information for the Groundwater RFI to identify and evaluate the nature and extent of hazardous waste and constituent releases at the compressor station. A substantial groundwater and surface water dataset is currently available. The Final Groundwater RFI/RI will be prepared in 2007 that will present groundwater and surface water monitoring data collected between 1997 and 2007 from over 100 wells at the site. Therefore, the objectives of the Topock GMP, as currently defined, will be met in 2007. The purpose and objectives for the GMP following completion of the Groundwater RFI must be defined if future GMP activities are needed.

Also, as discussed in Section 1.0, PG&E is implementing an IM at the Topock site that consists of groundwater extraction for hydraulic control of the groundwater plume boundaries in the Colorado River floodplain and management of extracted groundwater. Robust monitoring and reporting programs to monitor the effectiveness and regulatory compliance of the IM operations will continue throughout 2007 and thereafter, as long as the IM is in effect. Recommendations for changes to the GMP, as documented herein, do not apply to the IM monitoring programs.

5.1 Recommended GMP Changes for 2007

The following are recommended changes to the Topock GMP in 2007:

- Hardness, TDS, and TSS have been collected during 10 in-channel surface water
 monitoring events since July 2005. Data have been consistent for these analytes and have
 adequately established water quality conditions in the river throughout various stages
 of the annual river cycle. Therefore, it is recommended that the analysis of hardness,
 TDS, and TSS at the river channel stations be discontinued in future GMP monitoring
 events.
- As shown in Table 7, Title 22 metals have been analyzed for eight quarters in nine wells
 from September 2004 through December 2007. There is a substantive body of data for
 these metals that show consistent concentrations. No apparent non-chromium metallic
 constituent trends with time have been identified over this period; therefore, it is
 recommended that the analysis of Title 22 metals be discontinued in future GMP monitoring events.
- Modify the well sampling frequencies as indicated by the MAROS program (Section 4.4, Appendix D). The sampling program can be optimized by reducing the sampling frequency at many GMP monitoring wells, while still tracking plume movement

- efficiently. Based on results of the updated MAROS analysis, several revisions to the current sampling frequencies are warranted, as described in Appendix D.
- Modify the reporting frequency for future Topock GMP reports from quarterly to semiannually. As the groundwater RFI nears completion, quarterly data reports have become less necessary. Also, more frequent monitoring and reporting programs to monitor the effectiveness of the IM operations will continue throughout 2007 and thereafter, as long as the IM is in effect.
- Incorporate the additional slant monitoring wells to be installed in California floodplain in early 2007 into the GMP after construction. In addition, incorporate the vertical and slant wells planned to be installed in Arizona in mid 2007 into the GMP after construction.
- Revise the *Monitoring Plan for Groundwater and Surface Water Monitoring Program, PG&E Topock Compressor Station,* dated April 11, 2005. The monitoring plan should be updated to reflect the objectives of the GMP following completion of the Groundwater RFI/RI (site groundwater characterization). In addition, the Monitoring Plan revision will incorporate additional wells that have been installed at the site since April 2005 and numerous objectives (see Table 1) that have been issued since April 2005, if appropriate, given revised objectives of the GMP.
- In addition, as the objectives of the GMP will change with the completion of the site characterization for groundwater and surface water, the *Quality Assurance Project Plan for Water Quality Sampling and Analysis*, dated March 31, 2005, should be updated to reflect the revised project objectives upon completion of groundwater characterization.
- There are two water supply wells at the Moabi Regional Park; one that has been monitored under the GMP since 1997 and another that was newly installed in late 2006. DTSC's required sampling frequency for the first well is biennial, and the second well has not yet been incorporated into the GMP. It is recommended that both Park Moabi wells be monitored as part of the GMP on an annual frequency beginning in 2007.

5.2 Upcoming GMP Events

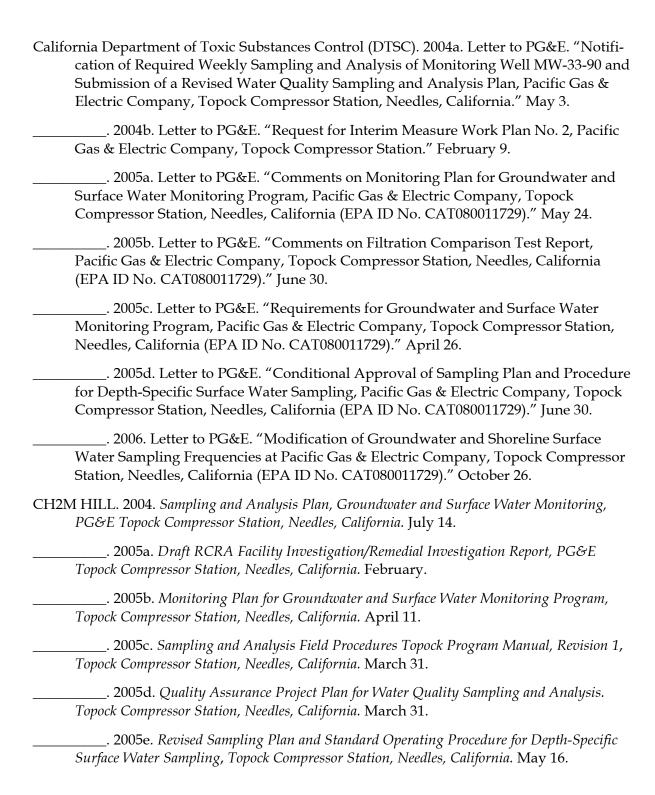
The first quarter 2007 monitoring event is scheduled to be conducted in March 2007. This quarterly event will also serve as a semiannual event and include 68 monitoring wells as directed by DTSC (DTSC, 2006). Quarterly surface water sampling, including nine shoreline and nine in-channel locations, will be also conducted in March 2007. The groundwater and surface water monitoring report for the first quarter 2007 GMP event will be submitted approximately 10 to 12 weeks after sampling completion.

The first two monthly events of 2007 occurred on January 9 and 10 and February 5 through 8, 2007. Monthly GMP monitoring events include 10 monitoring wells, not including the two active extraction wells PE-1 and TW-3D that are routinely sampled for IM No. 3 compliance reporting (DTSC, 2006). The sampling results of the IM extraction wells and floodplain wells that are monitored on monthly and biweekly schedules are presented monthly in the IM performance monitoring program reports (CH2M HILL, 2005i).

Samples were collected from nine river channel and nine shoreline locations during the January 2007 monthly event (a low-water level month). After the January sampling event, the river locations will be sampled quarterly in 2007 until the river is at low-river stage again (anticipated to begin in November 2007).

Biweekly sampling of floodplain well MW-34-100 will continue through the first quarter 2007 as directed by DTSC (DTSC, 2006).

6.0 References





Fetter, C.W. 1994. Applied Hydrogeology, Third Edition. Prentice-Hall.



TABLE 2
Well Construction and Sampling Summary, December 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Site Area	Measuring Point Elevation (ft MSL)	Screen	Well Casing (inches)	Well Depth (ft bgs)	Depth to Water (ft btoc)	Sampling System	Typical Purge Rate (gpm)	Typical Purge Volu (gallons)	
GMP Monito	oring Wells									
MW-09	Bat Cave Wash	536.56	77 - 87	4 in PVC	89.4	80.8	CD pump	3	11	
MW-10	Bat Cave Wash	530.65	74 - 94	4 in PVC	96.9	75.1	CD pump	5	40	
MW-11	Bat Cave Wash	522.61	62.5 - 82.5	4 in PVC	86.1	67.3	CD pump	5	30	
MW-12	East of Station	484.01	27.5 - 47.5	4 in PVC	50.4	29.4	Temp. pump	3	40	
MW-13	Bat Cave Wash	488.64	28.5 - 48.5	4 in PVC	52.0	32.7	CD pump	4	30	
MW-14	East Mesa	570.99	111 - 131	4 in PVC	133.8	115.5	CD pump	4	30	
MW-15	East of New Ponds	641.52	180.5 - 200.5	4 in PVC	203.0	185.3	CD pump	5	30	
MW-16	Near New Ponds	657.31	198 - 218	4 in PVC	218.1	200.4	Temp. pump	7	35	
MW-17	West of Mesa Area	589.96	130 - 150	4 in PVC	153.6	133.3	CD pump	5	32	
MW-18	West Mesa	545.32	85 - 105	4 in PVC	106.7	89.3	Temp. pump	5	30	
MW-19	Route 66	499.92	46 - 66	4 in PVC	65.8	46.0	CD pump	7	41	
MW-20-070	MW-20 bench	500.15	50 - 70	4 in PVC	69.6	47.5	CD pump	10	53	
MW-20-100	MW-20 bench	500.58	89.5 - 99.5	4 in PVC	101.4		CD pump	10	110	
MW-20-130	MW-20 bench	500.66	121 - 131	4 in PVC	132.3		Temp. pump	10	180	
MW-21	Route 66	505.55	39 - 59	4 in PVC	58.5	54.7	Temp. pump	10		w recharge well; purges dry at 1 casing volum
MW-22	Floodplain	460.72	5.5 - 10.5	2 in PVC	12.4		Peristaltic	0.2	4	
MW-23	East of Station	507.33	60 - 80	4 in PVC	81.4		CD Pump	5	20 lo	w recharge well; purges dry at 1 casing volum
MW-24A	MW-24 Bench	567.16	104 - 124	4 in PVC	127.5	111.9	CD pump	3	30	
MW-24B	MW-24 Bench	564.76	193 - 213	4 in PVC	214.8		CD pump	7	210	
MW-24BR	MW-24 Bench	563.95	378 - 437	4 in PVC	441.0		Temp. pump	8		w recharge well; purges dry at 1 casing volum
MW-25	Near Bat Cave Wash	542.90	84.5 - 104.5	4 in PVC	106.5	88.9	CD pump	5	32	3 71 3 3
MW-26	Route 66	502.22	51.5 - 71.5	2 in PVC	70.1	48.0	CD pump	7	50	
MW-27-020		460.56	7 - 17	2 in PVC	14.4		Temp. pump	1	7	
MW-27-060	'	461.38	47.3 - 57.3	2 in PVC	59.0		Temp. pump	2	25	
MW-27-085		460.99	77.5 - 87.5	2 in PVC	80.0		Ded. Redi-Flo AR	2	36	
MW-28-025	Floodplain	466.85	13 - 23	2 in PVC	21.1		Ded. Redi-Flo AR	1	5	
MW-28-090	•	467.51	70 - 90	2 in PVC	98.4		Temp. pump	2	50	
MW-29	Floodplain	485.21	29.5 - 39.5	2 in PVC	41.5		Temp. pump	0.5	6	
MW-30-030		468.12	12 - 32	2 in PVC	26.9		Ded. Redi-Flo AR	1	10	
MW-30-050	•	468.81	40 - 50	4 in PVC	52.6		Ded. Redi-Flo AR	2	75	
MW-31-060	•	496.81	41.5 - 61.5	4 in PVC	64.0	43.9	CD pump	10	40	
MW-31-135		498.11	113 - 133	2 in PVC	135.4		Redi-Flo AR	3	60	
MW-31-133		461.51	10 - 20	2 in PVC	19.6		Ded. Redi-Flo AR	1.5	6	

G:\PacificGasElectricCo\TopockProgram\Database\Tuesdai\GMP\Topock_2006Q4_r eports.mdb - rptTable2_wellconstruction

TABLE 2
Well Construction and Sampling Summary, December 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Site Area	Measuring Point Elevation (ft MSL)	Screen Interval (ft bgs)	Well Casing (inches)	Well Depth (ft bgs)	Depth to Water (ft btoc)	Sampling System	Typical Purge Rate (gpm)	Typical Purge Volume (gallons)	Remarks
GMP Monito	oring Wells									
MW-32-035	Floodplain	461.63	27.5 - 35	4 in PVC	37.2		Ded. Redi-Flo AR	2	60	
MW-33-040	Floodplain	487.38	29 - 39	4 in PVC	41.8		Temp. pump	0.5	4	
MW-33-090	Floodplain	487.55	69 - 89	4 in PVC	88.3		Temp. pump	2	110	
MW-33-150	Floodplain	487.77	132 - 152	2 in PVC	155.4		Temp. pump	3	60	
MW-33-210	Floodplain	487.25	190 - 210	2 in PVC	223.0		Ded. Redi-Flo AR	3	90	
MW-34-055	Floodplain	460.94	45 - 55	4 in PVC	56.6		Ded. Redi-Flo AR	2	100	
MW-34-080	Floodplain	461.20	73 - 83	4 in PVC	84.3		Ded. Redi-Flo AR	3	150	
MW-34-100	Floodplain	460.96	89.5 - 99.5	2 in PVC	117.0		Ded. Redi-Flo AR	2	55	
MW-35-060	Route 66	484.19	41 - 61	2 in PVC	56.8	30.6	Temp. pump	2	18	
MW-35-135	Route 66	483.57	116 - 136	2 in PVC	158.7		Temp. pump	3	66	
MW-36-020	Floodplain	469.26	10 - 20	1 in PVC	22.7		Peristaltic	0.5	4	
MW-36-040	Floodplain	469.61	30 - 40	1 in PVC	42.8		Peristaltic	0.5	4	
MW-36-050	Floodplain	469.60	46 - 51	1 in PVC	53.3		Peristaltic	0.75	5	
MW-36-070	Floodplain	469.25	60 - 70	1 in PVC	72.5		Peristaltic	0.5	7	
MW-36-090	Floodplain	469.61	80 - 90	1 in PVC	92.5		Peristaltic	0.4	10	
MW-36-100	Floodplain	469.64	88 - 98	2 in PVC	110.2		Ded. Redi-Flo AR	2	45	
MW-37D	Bat Cave Wash	486.19	180 - 200	2 in PVC	226.7		Temp. pump	3	100	
MW-37S	Bat Cave Wash	485.97	64 - 84	2 in PVC	87.0		Temp. pump	2	30	
MW-38D	Bat Cave Wash	525.31	163 - 183	2 in PVC	190.9		Temp. pump	3	60	
MW-38S	Bat Cave Wash	525.51	75 - 95	2 in PVC	98.1	70.8	Temp. pump	1	13	
MW-39-040	Floodplain	468.02	30 - 40	1 in PVC	42.1		Peristaltic	0.5	3.5	
MW-39-050	Floodplain	467.93	47 - 52	1 in PVC	54.6		Peristaltic	0.5	5	
MW-39-060	Floodplain	468.00	49 - 59	1 in PVC	66.3		Peristaltic	0.5	6	
MW-39-070	Floodplain	468.02	60 - 70	1 in PVC	71.7		Peristaltic	0.5	7	
MW-39-080	Floodplain	467.92	70 - 80	1 in PVC	82.6		Peristaltic	0.5	9	
MW-39-100	Floodplain	468.01	80 - 100	2 in PVC	117.7		Ded. Redi-Flo AR	2	45	
MW-40D	I-40 Median	566.08	240 - 260	2 in PVC	266.0		Temp. pump	3	75	
MW-40S	I-40 Median	566.04	115 - 135	2 in PVC	134.0	110.9	Temp. pump	2	13	
MW-41D	Bat Cave Wash	479.42	271 - 291	2 in PVC	313.0		Temp. pump	3	145	
MW-41M	Bat Cave Wash	479.83	170 - 190	2 in PVC	192.4		Temp. pump	3	85	
MW-41S	Bat Cave Wash	480.07	40 - 60	2 in PVC	61.6	25.4	Temp. pump	2	42	
MW-42-030	Floodplain	463.81	9.8 - 29.8	2 in PVC	32.0		Temp. pump	2	28	
MW-42-055	Floodplain	463.87	42.5 - 52.5	2 in PVC	56.0		Temp. pump	3	21	

G:\PacificGasElectricCo\TopockProgram\Database\Tuesdai\GMP\Topock_2006Q4_r eports.mdb - rptTable2_wellconstruction

TABLE 2
Well Construction and Sampling Summary, December 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Site Area	Measuring Point Elevation (ft MSL)	Screen	Well Casing (inches)	Well Depth (ft bgs)	Depth to Water (ft btoc)	Sampling System	Typical Purge Rate (gpm)	Typical Purge Volu (gallons	
GMP Monito	ring Wells									
MW-42-065	Floodplain	463.37	56.2 - 66.2	2 in PVC	80.0		Temp. pump	3	36	
MW-43-025	Floodplain	462.54	15 - 25	2 in PVC	27.0		Temp. pump	1	9	
MW-43-075	Floodplain	462.71	65 - 75	2 in PVC	77.0		Ded. Redi-Flo AR	2	28	
MW-43-090	Floodplain	462.76	80 - 90	2 in PVC	102.0		Ded. Redi-Flo AR	2	47	
MW-44-070	Floodplain	471.90	61 - 71	2 in PVC	70.0		Temp pump	1.5	38	
MW-44-115	Floodplain	472.01	103 - 113	2 in PVC	113.5		Ded. Redi-Flo AR	3	60	
MW-44-125	Floodplain	472.04	116 - 125	2 in PVC	128.8		Temp pump	0.35	57	
MW-46-175	Floodplain	482.16	165 - 175	2 in PVC	181.8		Ded. Redi-Flo AR	1.5	100	
MW-46-205	Floodplain	482.23	196.5 - 206.5	2 in PVC	224.7		Temp pump	2	90	
MW-47-055	Floodplain	483.87	45 - 55	2 in PVC	55.0		Temp pump	2	30	
MW-47-115	Floodplain	484.06	105 - 115	2 in PVC	115.0		Temp pump	1.5	55	
MW-48	East of Station	486.22	124 - 134	2 in PVC	138.0		Temp pump	0.5	22 lo	w recharge well; purges dry at 1 casing volum
MW-49-135	Floodplain	484.02	125 - 135	1.5 in PVC	136.6		Temp pump	0.6	30	
MW-49-275	Floodplain	483.95	255 - 275	2 in PVC	274.7		Temp pump	3	126	
MW-49-365	Floodplain	484.01	345 - 365	2 in PVC	367.4		Temp pump	2	180	
MW-50-095	Route 66	496.55	85 - 95	2 in PVC	96.4		Temp pump	2	36	
MW-50-200	Route 66	496.48	190 - 200	2 in PVC	204.5		Temp pump	3	85	
MW-51	Route 66	501.56	97 - 112	4 in PVC	113.3		Temp pump	2	180	
OW-03D	West Mesa	558.63	242 - 262	2 in PVC	274.0		Temp. pump	3	90	
OW-03M	West Mesa	558.89	180 - 200	2 in PVC	202.0		Temp. pump	3	54	
OW-03S	West Mesa	558.58	86 - 116	2 in PVC	118.0	102.5	Temp. pump	2	30	
Other Site W	ells not in GMP				•					
MW-01	New Ponds	661.76	201 - 211	4 in PVC	217.0	205.9	Ded. Redi-Flo AR	NA	NA a	ctive PG&E pond monitoring well
MW-03	New Ponds	650.51	193 - 203	4 in PVC	205.0		Ded. Redi-Flo AR	NA	NA a	ctive PG&E pond monitoring well
MW-04	New Ponds	625.73	164.5 - 174.5	4 in PVC	176.3	170.0	Ded. Redi-Flo AR	NA	NA a	ctive PG&E pond monitoring well
MW-05	New Ponds	635.69	175.9 - 184.9	4 in PVC	186.2	179.6	Ded. Redi-Flo AR	NA	NA a	ctive PG&E pond monitoring well
MW-06	New Ponds	642.84	184.5 - 193.5	4 in PVC	194.9		Ded. Redi-Flo AR	NA	NA a	ctive PG&E pond monitoring well
MW-07	New Ponds	631.91	172.7 - 182.7	4 in PVC	185.0	176.3	Ded. Redi-Flo AR	NA	NA a	ctive PG&E pond monitoring well
MW-08	New Ponds	627.54	169 - 178	4 in PVC	179.9	171.1	Ded. Redi-Flo AR	NA	NA a	ctive PG&E pond monitoring well
MW-45-095a	Floodplain	470.03	83 - 93	2 in PVC	97.0		Temp pump	1	40 pi	ressure transducer location
MW-45-095b	Floodplain	469.51	83 - 93	1 in PVC	97.0		Temp pump	NA	9 gı	roundwater sampling location
MWP-08	Old Ponds	677.48	181 - 211	3 in PVC	213.0			NA	NA in	active monitoring well
MWP-10	Old Ponds	675.81	194 - 234	3 in PVC	237.0			NA	NA in	active monitoring well

G:\PacificGasElectricCo\TopockProgram\Database\Tuesdai\GMP\Topock_2006Q4_r eports.mdb - rptTable2_wellconstruction

TABLE 2
Well Construction and Sampling Summary, December 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Site Area	Measuring Point Elevation (ft MSL)	Screen	Well Casing (inches)	Well Depth (ft bgs)	Depth to Water (ft btoc)	Sampling System	Typical Purge Rate (gpm)	Typic Purge Vo (gallo	olume
Other Site \	Wells not in GMP									
MWP-12	Old Ponds	663.49	96 - 136	3 in PVC	143.0			NA	NA	inactive monitoring well
P-2	New Ponds	537.60	238.5 - 248.5	4 in PVC	251.0			NA	NA	inactive monitoring well
PGE-09N	East of River	462.21	25 - 95	12 in Steel				NA	NA	
PGE-09S	East of River	461.99	30 - 100	12 in Steel				NA	NA	
Test and Ex	ktraction Wells									
IW-02	East Mesa	550.11	170 - 330	6 in Steel	343.0			NA	NA	IM3 injection well
IW-03	East Mesa	554.44	160 - 320	6 in Steel	333.0			NA	NA	IM3 injection well
PE-01	Floodplain	457.52	79 - 89	6 in Steel	97.0		CD pump	3	400	active IM extraction well
TW-01	Plan B Test	620.55	169 - 269	5 in PVC	240.2		CD pump	20	200	inactive pilot test well
TW-02D	MW-20 bench	493.29	113 - 148	6 in PVC	150.0		CD pump	70.1	160	inactive IM extraction well
TW-02S	MW-20 bench	499.05	42.5 - 92.5	6 in PVC	102.1	34.0	CD pump	6	75	inactive IM extraction well
TW-03D	MW-20 bench		111 - 156	8 in PVC	157.0		CD pump	NA	NA	active IM extraction well
TW-04	Floodplain	484.11	210 - 250	4 in PVC	255.0		Temp pump	NA	NA	
TW-05	Route 66	496.30	110 - 150	4 in PVC	152.5		Temp pump	3	150	
Water Supp	oly Wells				-	-		-		
PGE-06	MW-24 Bench	563.32	110 - 180	14 in Steel	181.0		CD pump	24	650	inactive supply
PGE-07	MW-24 Bench	563.89	195 - 330	14 in Steel	332.0		CD pump	12	600	inactive supply
PGE-08	Station	596.01	405 - 554	6.75 in Steel	564.0		CD pump	20	1900	inactive injection
PM-03	Park Moabi	518.55	80 - 200	8 in Steel	252.0		active supply well	NA	NA	call Park Ranger to schedule sampling

NOTES:

BGS below ground surface
MSL mean sea level
BTOC below top of casing
NA not known or available

CD pump dedicated constant-discharge electric submersible pump

Redi-Flo AR adjustable-rate electric submersible pump

Temp pump temporary pump

PVC polyvinyl chloride casing

Ded dedicated

Depth to water shown is the most recently measured depth to water.

All GMP wells except low recharge wells, active IM extraction wells, and Park Moabi well are purged and sampled using well-volume method.

TABLE 3Groundwater COC Sampling Results, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date		Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	рН
MW-9	07-Mar-06		298	291	2,650	7.60
	07-Mar-06	FD	301	295	2,630	7.62
	12-Oct-06		308	306	2,820	7.24
MW-10	06-Mar-06		2070	2120	2,730	7.56
	12-Oct-06		2510	2480	2,350	7.52
	14-Dec-06		2380	3040	2,140	7.79
MW-11	06-Mar-06		323	306	2,360	7.47
	12-Oct-06		325	339	2,320	7.39
MW-12	13-Dec-05		626	602	2,930	8.41
	18-Apr-06		1210	1300	3,450	8.19
	01-May-06		1250	1280	3,520	8.52
	04-Oct-06		1740	1790	4,590	7.92
	13-Dec-06		2050	1880	4,490	8.44
MW-13	13-Dec-05		21.4	20.0	1,740	7.51
	13-Dec-05	FD	21.5	22.1	1,750	7.52
	08-Mar-06		21.8	18.9	1,820	7.60
	08-Mar-06	FD	21.8	19.1	1,800	7.53
	02-May-06		21.4	19.2	1,760	7.67
	02-May-06	FD	21.2	20.5	1,750	7.79
	02-Oct-06		24.6	21.4	1,860	7.80
MW-14	15-Dec-05		31.7	30.0	1,440	7.24
	09-Mar-06		32.5	29.1	1,420	7.56
	02-May-06		32.6	27.6	1,440	7.88
	02-Oct-06		31.2	27.0	1,430	7.88
	02-Oct-06	FD	32.6	28.9	1,440	7.84
MW-15	07-Mar-06		15.2	13.8	1,790	7.75
	05-Oct-06		12.1	11.4	1,430	7.93 R
MW-16	07-Mar-06		9.00	7.70	1,050	7.86
	01-Nov-06		7.00	6.30	1,090	8.04
MW-17	09-Mar-06		16.6	14.7	1,710	7.60
10100 17	02-Oct-06		11.9	11.9	1,780	7.69
MM 10						
MW-18	09-Mar-06 09-Mar-06		37.6	31.0	1,140	7.45
	09-Mai-06 04-Oct-06	FD	38.1 33.5	32.3 29.1	1,130	7.50 7.46
NAVA 40					1,250	
MW-19	12-Dec-05		1240	1270	2,040	7.52
	09-Mar-06		1090	1080	2,080	7.50
	02-May-06		1130 970	1120	2,150 2,230	7.74 7.86
	02-Oct-06 15-Dec-06		970 1070 J	1300 1090	2,250 2,250	7.86 7.63
NAVA 00 70						
MW-20-70	15-Dec-05		4640	4310	2,850	7.72
	10-Mar-06		5170	4510 4440	2,870	7.61
	05-May-06 03-Oct-06		4100	4440	2,860	7.75 7.32
	03-Oct-06		3290	3390	2,840	1.32

TABLE 3Groundwater COC Sampling Results, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (μg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pН
MW-20-70	13-Dec-06	3430	3120	2,850	7.55
MW-20-100	15-Dec-05	9460	9010	3,550	7.68
	10-Mar-06	10100	10200	3,690	7.61
	05-May-06	10400	12100	3,610	7.65
	03-Oct-06	9520	10300	3,570	7.28
	13-Dec-06	9610	9220 J	3,630	7.48
	13-Dec-06 F	9400	11500 J	3,560	7.54
MW-20-130	16-Dec-05	10500	9340	13,000	7.53
	10-Mar-06	10700	10600	13,600	7.62
	05-May-06	12000	13700	14,200	7.71
	18-Oct-06	11600	16400	17,000	7.61 R
	13-Dec-06	12000	10500	15,100	7.58
	13-Dec-06 F		10700	15,200	7.56
MW-21	14-Dec-05	ND (1.0)	ND (1.0)	8,960	7.08
	02-May-06	ND (1.0)	ND (1.0)	14,300	7.28
	03-Oct-06	ND (1.0)	ND (1.0)	16,500	7.27
	13-Dec-06	ND (1.0)	ND (1.0)	13,900	7.33
MW-22	16-Dec-05	ND (2.0)	ND (1.0)	34,500	6.89
10100-22	15-Mar-06		ND (1.0) ND (1.0)	36,300	7.25
		ND (2.0)		33,400	6.97
	03-May-06 13-Oct-06	ND (1.0) J ND (1.0)	ND (1.0) ND (1.0)	40,300	6.84
B 40 4 / O O					
MW-23	14-Dec-05	8.80	10.5	16,400	7.17
	08-Mar-06	11.9	ND (1.0)	18,800	7.27
	02-May-06	16.8	18.2	19,500	7.38
	04-Oct-06	15.2	14.4	19,300	7.07
	12-Dec-06	1920 R	ND (1.0) J	21,200	7.50
	12-Dec-06 F		8.60 J	19,400	7.47
MW-24A	06-Mar-06	3490	3980	3,100	7.62
	03-Oct-06	4300	4260	3,170	7.66
	14-Dec-06	3310	4250	3,220	7.70
MW-24B	07-Mar-06	5650	5970	15,400	7.92
	03-Oct-06	6120	5830	17,100	7.69
	14-Dec-06	5520	5060	18,800	7.97
MW-24BR	15-Dec-05	ND (1.0)	ND (1.0)	13,600	8.34
	16-Mar-06	ND (1.0)	1.20	15,600	7.92
	10-May-06	1.00 R	ND (1.0)	15,200	8.06
	05-Jun-06	ND (1.0)			
	01-Nov-06	ND (1.0)	ND (1.0)	16,700	7.98
	15-Dec-06	ND (2.0)	1.00	16,500	8.56
MW-25	14-Dec-05	1460	1370	1,360	7.39
-	14-Dec-05 F		1350	1,350	7.41
	09-Mar-06	1360	1430	1,400	7.43
	03-May-06	1390	1300	1,400	7.79
	03-May-06 F	1280	1310	1,420	7.68

TABLE 3Groundwater COC Sampling Results, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (μg/L)	Specific Conductance (µS/cm)	рН
MW-25	03-Oct-06	1140	1150	1,400	7.24
MW-26	12-Dec-05	3220	3160	3,850	7.43
	08-Mar-06	3280	3020	3,300	7.54
	01-May-06	3210	3110	3,350	7.66
	03-Oct-06	3590	3850	3,600	7.52
MW-27-20	14-Dec-05	ND (0.2)	ND (1.0)	1,340	7.42
-	06-Mar-06	ND (0.2)	ND (1.0)	998	7.66
	01-May-06	ND (0.2)	ND (1.0)	1,490	7.72
	03-Oct-06	ND (0.2)	ND (1.0)	1,090	7.90 R
MW-27-60	15-Dec-05	ND (1.0)	ND (1.0)	13,700	7.28
10100-27-00	07-Mar-06	ND (1.0)	ND (1.0)	13,600	7.39
	01-May-06	ND (1.0)	ND (1.0)	12,800	7.58
	03-Oct-06	ND (1.0) ND (1.0)	ND (1.0)	9700 J	7.23
MW-27-85	15-Dec-05	1.20 J	6.60	17,500	7.29
	12-Jan-06	ND (1.0)	ND (1.0)		
	08-Feb-06	ND (1.0)	ND (1.0)		
	06-Mar-06	ND (1.0)	ND (1.0)	20,600	7.23
	03-Apr-06	ND (1.0)	ND (1.0)		
	01-May-06	ND (1.0)	ND (1.0)	17,200	7.56
	14-Jun-06	ND (1.0)	ND (1.0)		
	12-Jul-06	ND (2.0)	ND (1.0)		
	08-Aug-06	ND (1.0)	ND (1.0)		
	06-Sep-06	ND (1.0)	ND (1.0)		
	13-Oct-06	ND (1.0)	ND (1.0)	21,600	7.16
	16-Nov-06	ND (1.0)	ND (1.0)		
	11-Dec-06	ND (1.0)	ND (1.0)	21,600	7.03
MW-28-25	16-Dec-05	ND (0.2)	ND (1.0)	1,430	7.28
	09-Mar-06	ND (0.2)	ND (1.0)	1,040	7.42
	05-May-06	ND (0.2)	ND (1.0)	1,170	7.55
	11-Oct-06	ND (0.2)	ND (1.0)	1,340	7.27
MW-28-90	16-Dec-05	ND (1.0)	ND (1.0)	8,400	7.57
	10-Jan-06	ND (1.0)	ND (1.0)		
	09-Feb-06	ND (0.2) J	ND (1.0)		
	06-Mar-06	ND (1.0)	ND (1.0)	8,970	7.66
	06-Apr-06	ND (1.0)	ND (1.0)		
	05-May-06	ND (1.0)	ND (1.0)	7,680	7.68
	15-Jun-06	ND (1.0)	ND (1.0)		
	13-Jul-06	ND (1.0) J	ND (1.0)		
	11-Aug-06	ND (0.2)	ND (1.0)		
	08-Sep-06	ND (0.2)	ND (1.0)		
	13-Oct-06	ND (0.2)	ND (1.0)	8,510	7.56
	14-Dec-06	ND (1.0)	ND (1.0)	7,740	7.54
MW-29	12-Dec-05	ND (0.2)	ND (1.0)	5,620	7.38
20	13-Apr-06	ND (0.2)	ND (1.0)	3,340	7.74
	05-May-06	ND (0.2)	ND (1.0)	0,0.0	7.57

TABLE 3Groundwater COC Sampling Results, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (μg/L)	Dissolved Total Chromium (μg/L)	Specific Conductance (µS/cm)	рН
MW-29	13-Oct-06	ND (0.2)	ND (1.0)	4,300	7.39
MW-30-30	15-Dec-05	ND (5.0)	ND (1.0)	61,500	7.05
	13-Mar-06	ND (5.0)	ND (1.0)	65,300	7.04
	02-May-06	ND (2.0)	ND (1.0)	53,300	7.10
	10-Oct-06	ND (2.0)	ND (1.0)	49,300	7.04
MW-30-50	16-Dec-05	ND (1.0)	ND (1.0)	10,200	7.38
	09-Mar-06	ND (1.0)	ND (1.0)	9,650	7.34
	02-May-06	ND (1.0)	ND (1.0)	9,500	7.52
	11-Oct-06	ND (0.2)	ND (1.0)	6,100	7.13
	11-Oct-06 F	D ND (0.2)	ND (1.0)	6,210	7.16
MW-31-60	13-Dec-05	1300	1250	2,570	7.60
	15-Mar-06	1020	1010	2,580	7.62
	15-Mar-06 F	D 1000	1010	2,560	7.64
	01-May-06	952	959	2,590	7.80
	05-Oct-06	773	849	2,440	7.60
MW-31-135	14-Dec-05	221	198	9,240	7.62
	15-Mar-06	173	186	11,000	7.91
	09-May-06	154	146 LF	9,830	8.07
	05-Oct-06	85.7	81.7	9,370	7.59
MW-32-20	16-Dec-05	ND (2.0)	ND (1.0)	39,400	6.86
	10-Mar-06	ND (2.0)	ND (1.0)	36,500	6.92
	04-May-06	ND (1.0)	ND (1.0)	27,900	6.83
	02-Oct-06	ND (5.0)	ND (1.0)	65,200	7.03
	11-Dec-06	ND (2.0)	ND (1.0)	57,100	6.85
MW-32-35	16-Dec-05	ND (1.0)	ND (1.0)	12,600	7.19
	10-Mar-06	ND (2.0)	ND (1.0)	14,200	7.26
	04-May-06	ND (1.0)	ND (1.0)	17,000	7.31
	02-Oct-06	ND (1.0)	ND (1.0)	18,400	7.28
	11-Dec-06	ND (1.0)	ND (1.0)	19,200	7.10
MW-33-40	12-Dec-05	ND (1.0)	1.70	9,380	7.78
	09-Mar-06	ND (0.2)	ND (1.0) LF	5,560	8.01
	04-May-06	ND (0.2)	ND (1.0) LF	4,290	8.44
	06-Oct-06	ND (0.2)	ND (1.0)	4,170	8.00 J
	14-Dec-06	ND (0.2)	1.20	6,790	8.20
MW-33-90	13-Dec-05	16.4	21.8 J	8,540	7.50
		D 16.5	14.0 J	8,520	7.55
	08-Mar-06	16.7	14.3	10,000	7.76
	03-May-06	16.1	16.4	8,840	7.76
		D 19.3	15.3	8,590	7.71
	06-Oct-06	17.3	20.9	8,200	7.40 J
	15-Dec-06	17.8 J	13.8	9,460	7.63
		D 2.30 R	13.5	9,380	7.60
MW-33-150	12-Dec-05	6.60	5.70	15,600	7.60
	10-Jan-06	6.40	5.00		

TABLE 3Groundwater COC Sampling Results, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (μg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	рН
MW-33-150	07-Feb-06	4.30 J	6.40		
	08-Mar-06	4.20	3.20	18,300	7.74
	06-Apr-06	4.50	3.00		
	03-May-06	6.60	5.50	17,500	7.63
	16-Jun-06	5.50	5.40		
	13-Jul-06	7.40 J	6.70		
	11-Aug-06	9.30	8.10		
	08-Sep-06	7.40	4.10		
	06-Oct-06	7.70	5.70	18,400	7.30 J
	13-Dec-06	10.8	9.80	19,500	7.59
MW-33-210	12-Dec-05	6.90	5.60	18,000	7.53
	10-Jan-06	7.60	5.20		
	07-Feb-06	9.00	7.20		
	06-Mar-06	10.7	6.50	21,500	7.50
	13-Apr-06	4.20	ND (4.2)		
	05-May-06	10.0	8.80	17,900	7.55
	16-Jun-06	9.20	8.30		
	13-Jul-06	10.0 J	7.50		
	08-Aug-06	9.80	8.70		
	08-Sep-06	9.20	4.90		
	06-Oct-06	10.2	10.0	20,100	7.25 J
	11-Dec-06	11.1	8.00	22,200	7.46
MW-34-55	14-Dec-05	ND (1.0)	ND (1.0)	7,620	7.39
**** 01 00	08-Mar-06	ND (1.0)	ND (1.0)	8,500	7.62
	03-May-06	ND (0.2)	ND (1.0)	7,550	7.58
	04-Oct-06	ND (0.2)	ND (1.0)	2,410	7.98
MW-34-80	14-Dec-05	ND (1.0)	ND (1.0)	12,500	7.24
VIVV-3 4 -00	11-Jan-06	ND (1.0)	ND (1.0) ND (1.0)	12,500	
	08-Feb-06	ND (1.0)	ND (1.0) ND (1.0)		
	09-Mar-06	ND (1.0)	ND (1.0)	12,400	7.26
	03-Mar-06	ND (1.0)	ND (1.0)	12,400	
	03-May-06	ND (1.0)	ND (1.0)	13,600	7.35
	14-Jun-06	ND (1.0)	ND (1.0)	13,000	7.55
	12-Jul-06	ND (1.0)	ND (1.0)		
	08-Aug-06	ND (1.0)	ND (1.0) ND (1.0)		
	06-Sep-06	ND (1.0)	ND (1.0) ND (1.0)		
	04-Oct-06	ND (1.0)	ND (1.0) ND (1.0)	14,200	7.00
	16-Nov-06	` '			
	16-Nov-06 12-Dec-06	ND (1.0) ND (1.0)	ND (1.0) ND (1.0)	11,900	7.39
MM 04 400					
MW-34-100	14-Dec-05	808	751	15,000	7.52
		D 811	791	15,000	7.50
	28-Dec-05	804	824		
	12-Jan-06	837	771		
		ם עבנ	764		
	12-Jan-06 F 23-Jan-06	D 856 822	716		

TABLE 3Groundwater COC Sampling Results, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date		Hexavalent Chromium (µg/L)	Dissolved Total Chromium (μg/L)	Specific Conductance (µS/cm)	рН
MW-34-100	08-Feb-06	FD	785	708		
	22-Feb-06		752	831		
	22-Feb-06	FD	748	846		
	08-Mar-06		800	857	17,900	7.59
	08-Mar-06	FD	801	773	17,900	7.65
	23-Mar-06		830	851		
	23-Mar-06	FD	828	855		
	03-Apr-06		858	910		
	21-Apr-06		852	873		
	03-May-06		900	946	18,000	7.70
	03-May-06	FD	920	946	18,000	7.72
	17-May-06		935	1180		
	17-May-06	FD	930	1190		
	31-May-06		960	929		
	14-Jun-06		922	839		
	14-Jun-06	FD	921	864		
	28-Jun-06		976	1130		
	12-Jul-06		823 J	851		
	12-Jul-06	FD	828 J	864		
26-Ju 08-Au	26-Jul-06		859	955		
	08-Aug-06		889	982		
	28-Aug-06		922	945		
	06-Sep-06		844	963		
	06-Sep-06	FD	797	907		
	20-Sep-06		872	984		
	04-Oct-06		910	889	19,000	7.28
	18-Oct-06		815	920		
	01-Nov-06		832	752		
	16-Nov-06		777	801		
	30-Nov-06		744	712		
	12-Dec-06		851	625 J	18,500	7.78
	28-Dec-06		723	603		
MW-35-60	14-Dec-05		32.5	32.5	6,350	7.42
	14-Dec-05	FD	33.3	28.6	6,430	7.41
	14-Mar-06		31.6	24.3	7,700	7.53
	01-May-06		25.7	26.4	6,740	7.57
	12-Oct-06		28.6	29.1	8,850	7.43
MW-35-135	14-Dec-05		25.7	22.8	9,550	7.54
IVI V V - J.J - I J.J	10-Mar-06		28.0	24.0	10,800	7.5 4 7.67
	10-Mar-06	FD	26.5	2 4 .0 25.7	10,700	7.68
	02-May-06	יט	21.0	20.7	12,000	7.82
	12-Oct-06		35.4	34.6	9,570	7.62 7.43 R
	12-Oct-06	FD	34.0	30.8	8,640	7.43 K
NAVA 26 22		עו				
MW-36-20	15-Dec-05		ND (2.0)	ND (1.0)	3260 R	7.14 7.59
	07-Mar-06		ND (1.0)	ND (1.0)	15,100	7.58
	01-May-06		ND (1.0)	ND (1.0)	20,000	7.52

TABLE 3Groundwater COC Sampling Results, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (μg/L)	Specific Conductance (µS/cm)	рН
MW-36-20	02-Oct-06	ND (1.0)	ND (1.0)	20,500	7.33
MW-36-40	15-Dec-05	ND (1.0)	ND (1.0)	12,300	7.38
	07-Mar-06	ND (1.0)	ND (1.0)	13,800	7.51
	01-May-06	ND (1.0)	ND (1.0)	13,000	7.64
	05-Oct-06	ND (1.0)	ND (1.0)	11,600	7.30
MW-36-50	15-Dec-05	ND (1.0)	ND (1.0)	11,000	7.28
	07-Mar-06	ND (1.0)	ND (1.0)	7,850	7.63
	07-Mar-06 FE		ND (1.0)	7,650	7.46
	01-May-06	ND (0.2)	ND (1.0)	6,970	7.64
	05-Oct-06	ND (0.2)	ND (1.0)	3240 J	7.37
MW-36-70	15-Dec-05	ND (1.0)	ND (1.0)	8,220	7.40
	10-Feb-06	ND (10)	ND (1.0)		
	07-Mar-06	ND (1.0)	ND (1.0)	9,120	7.55
	06-Apr-06	ND (1.0)	ND (1.0)		
	01-May-06	ND (1.0)	ND (1.0)	8,410	7.60
	13-Jun-06	ND (0.2) J	ND (1.0)		
	11-Jul-06	ND (1.0)	ND (1.0)		
	09-Aug-06	ND (0.2)	ND (1.0)		
	07-Sep-06	ND (0.2)	ND (1.0)		
	02-Oct-06	ND (0.2)	ND (1.0)	4,900	7.81
	14-Dec-06	ND (0.2)	ND (1.0) LF	3,580	7.75
MW-36-90	15-Dec-05	240	219	13,900	7.27
	12-Jan-06	245	223		
	10-Feb-06	71.8	71.4		
	07-Mar-06	33.0	27.5	11,800	7.49
	04-Apr-06	23.5	15.7		
	01-May-06	22.8	18.3	11,200	7.61
	13-Jun-06	10.9	9.00		
	11-Jul-06	12.2	11.1		
	09-Aug-06	9.00	8.20		
	07-Sep-06	8.80	7.70		
	02-Oct-06	9.00	8.50	7,960	7.58
	02-Oct-06 FE		10.8	7,880	7.54
	15-Nov-06	ND (1.0)	2.40		
	14-Dec-06	3.80 J	5.80 J	7,340	7.49
	14-Dec-06 F	4.00	3.00 J	7,420	7.51
MW-36-100	13-Dec-05	306	333	15,800	7.25
	12-Jan-06	287	288		
	09-Feb-06	307	288		
	13-Mar-06	540	531	18,100	7.36
	05-Apr-06	554	492		
	02-May-06	532	517	16,600	7.45
	15-Jun-06	496 J	465		
	13-Jul-06	528	497		
	09-Aug-06	551	474		

TABLE 3Groundwater COC Sampling Results, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (μg/L)	Specific Conductance (µS/cm)	рН
MW-36-100	08-Sep-06	556	561		
	11-Oct-06	556	629	17500 J	7.16
	14-Nov-06	657	764		
	11-Dec-06	586	513	16,400	7.22
MW-37D	14-Dec-05	1680	1610	13,300	7.67
	13-Mar-06	1950	1860	16,000	7.64
	03-May-06	1970	1880	16,200	7.87
	13-Oct-06	1330	1160	15,900	7.68
	14-Dec-06	1310	1130	17,000	7.85
MW-37S	14-Dec-05	8.00	7.10	4,220	7.60
		-D 7.60	7.00	4,230	7.62
	13-Mar-06	7.70	7.00	4,280	7.70
	04-May-06	8.30	9.30	4,260	7.85
	•	D 8.00		4,250	7.81
	13-Oct-06	7.60	6.10	4,580	7.73
MW-38D	10-Mar-06	111	106	23,500	7.85
	12-Oct-06	104	104	27,100	7.38
MW-38S	10-Mar-06	824	788	3,700	7.53
WW 000	12-Oct-06	846	905	3480 J	7.49
MW-39-40	16-Dec-05	ND (0.2)	ND (1.0)	6,010	7.45
10100-39-40	07-Mar-06	ND (0.2) ND (1.0)	ND (1.0)	7,780	7. 4 5 7.55
	02-May-06	ND (1.0)	ND (1.0) ND (1.0)	8,490	7.55 7.59
	05-Oct-06	ND (1.0) ND (0.2)	ND (1.0) ND (1.0)	7,890	7.59 7.18
	14-Dec-06	ND (0.2)	ND (1.0)	9,940	7.18
MW-39-50	12-Jan-06	ND (10)	ND (1.0)		
10100-39-30	08-Mar-06	ND (10) ND (1.0)	ND (1.0)	12,200	7.49
	02-May-06	ND (1.0)	ND (1.0) ND (1.0)	10,300	7. 49 7.61
	05-Oct-06	ND (1.0) ND (0.2)	ND (1.0) ND (1.0)	7,370	7.31
NAVA 00 00					
MW-39-60	16-Dec-05	20.4	20.4	14,400	7.16
	08-Mar-06	7.10	2.70	15,700	7.42
		ED 6.90	2.40	15,300	7.47
	02-May-06 05-Oct-06	1.10 ND (1.0)	1.40 ND (1.0)	13,200 7,180	7.49 7.34
		FD ND (2.0)	ND (1.0)	7,180	7.3 4 7.38
NAVA 00 70					
MW-39-70	16-Dec-05 10-Feb-06	1240	1080	12,800	7.24
		338	340 160	12 200	 7 46
	08-Mar-06	200	169 204	12,300	7.46
	06-Apr-06 02-May-06	223 137	20 4 123	 11,500	 7.48
	02-iviay-06 14-Jun-06	137 107 J	94.6	11,500	7.40
	14-Jun-06 12-Jul-06	77.0 J	94.6 66.7		
	12-3ui-06 10-Aug-06	89.6	86.2		
	07-Sep-06	155	153		
	05-Oct-06	112	103	8,020	7.23
	14-Dec-06	101	94.0	8,250	7.27

TABLE 3Groundwater COC Sampling Results, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date		Hexavalent Chromium (µg/L)	Dissolved Total Chromium (μg/L)	Specific Conductance (µS/cm)	рН
MW-39-80	15-Dec-05		2740	2570	12,600	7.34
	12-Jan-06		2280	2060		
	10-Feb-06		1750	1610		
	08-Mar-06		1420	1400	15,900	7.48
	06-Apr-06		1200	1120		
	02-May-06		1410	1450	15,400	7.27
	14-Jun-06		1000 J	934		
	12-Jul-06		830 J	750		
	10-Aug-06		481	447		
	07-Sep-06		1160	1160		
	05-Oct-06		580	594	16,600	7.09
	15-Nov-06		339	422		
	14-Dec-06		326	272	18,000	7.12
MW-39-100	13-Dec-05		3640	3440	16,700	7.22
	12-Jan-06		4720	4280		
	09-Feb-06		4500	4310		
	13-Mar-06		4070	4640	20,700	7.20
	05-Apr-06		4470	4050		
	05-Apr-06	FD	4460	4330		
	02-May-06		3680	3480	20,500	7.22
	14-Jun-06		3270	3250		
	13-Jul-06		3790	3470		
	10-Aug-06		3230	3440		
	10-Aug-06	FD	3170	3410		
	08-Sep-06		3290	3780		
	11-Oct-06		3370	3500	20,000	7.02
	15-Nov-06		2850	3190		
	15-Nov-06	FD	2960	3060		
	12-Dec-06		3820	3350	21,300	7.27
MW-40D	13-Dec-05		83.5	78.1	14,600	7.43
	08-Mar-06		89.9	76.7	17,200	7.59
	03-May-06		79.8	85.3	14,700	7.75
	05-Oct-06		104	86.1	18,600	7.37
	13-Dec-06		110	99.0	17,900	7.54
MW-40S	13-Dec-05		5.10 J	5.10	1,850	7.54
	08-Mar-06		5.20	3.90	1,960	7.69
	03-May-06		5.70	6.70	1,950	7.85
	03-May-06	FD	5.60	7.20	1,930	7.85
	05-Oct-06	-	5.20	5.10	2,120	7.53
MW-41D	16-Dec-05		ND (1.0)	ND (1.0)	19,600	7.59
	15-Mar-06		ND (1.0)	ND (1.0)	23,500	7.84
	05-May-06		ND (1.0)	1.40	19,500	7.99
	04-Oct-06		ND (1.0)	ND (1.0)	22,300	7.54 R
\A\A/ AANA						
MW-41M	16-Dec-05 13-Mar-06		8.90 8.50	6.50 7.40	15,900 16,300	7.64 7.64

TABLE 3Groundwater COC Sampling Results, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	рН
MW-41M	05-May-06	8.80	9.80	12,000	7.84
	05-Oct-06	10.2	9.70	15,200	7.66
	05-Oct-06	FD 10.5	10.4	16,400	7.54
MW-41S	16-Dec-05	18.2	15.8	4,620	7.74
	16-Dec-05	FD 18.4	16.1	4,650	7.77
	13-Mar-06	17.6	18.0	5,170	7.82
	05-May-06	19.2	18.3	4,450	7.98
	05-May-06	FD 19.2	17.2	4,550	8.00
	05-Oct-06	19.6	19.0	4,780	7.69
MW-42-30	15-Dec-05	ND (1.0)	ND (1.0)	17,800	7.14
	07-Mar-06	ND (1.0)	ND (1.0)	11,100	7.42
	02-May-06	ND (1.0)	ND (1.0)	13,900	7.34
	03-Oct-06	ND (1.0)	ND (1.0)	19,400	7.14
MW-42-55	15-Dec-05	ND (1.0)	ND (1.0)	12,100	7.28
WWW 42 33	07-Mar-06	ND (1.0)	ND (1.0)	15,600	7.36
	02-May-06	ND (1.0)	ND (1.0)	17,000	7.32
	03-Oct-06	ND (1.0)	ND (1.0)	17,500	7.16
	14-Dec-06	ND (2.0)	ND (1.0)	18,500	7.21
MW-42-65	15-Dec-05	ND (1.0)	ND (1.0)	16,100	7.10
	07-Mar-06	ND (1.0)	ND (1.0)	18,000	7.12
	02-May-06	ND (1.0)	ND (1.0)	20,000	7.05
	03-Oct-06	ND (1.0)	ND (1.0)	19,900	7.02
	14-Dec-06	ND (2.0)	ND (1.0)	22,300	7.12
MW-43-25	16-Dec-05	ND (0.2)	ND (1.0)	1,340	7.20
10 20	10-Mar-06	ND (0.2)	ND (1.0)	1,240	7.23
	04-May-06	ND (0.2)	ND (1.0)	1,210	7.31
	02-Oct-06	ND (0.2)	ND (1.0)	1,190	7.46
MW-43-75	16-Dec-05	ND (1.0)	ND (1.0)	13,100	7.37
	11-Jan-06	ND (1.0)	ND (1.0)		
	10-Feb-06	ND (1.0)	ND (1.0)		
	10-Mar-06	ND (1.0)	ND (1.0)	15,900	7.36
	03-Apr-06	ND (1.0)	ND (1.0)		
	04-May-06	ND (1.0)	ND (1.0)	13,000	7.37
	02-Oct-06	ND (1.0)	ND (1.0)	17,400	7.49
	12-Dec-06	ND (1.0)	ND (1.0)	16,300	7.48
MW-43-90	16-Dec-05	ND (1.0)	ND (1.0)	19,900	6.93
	11-Jan-06	ND (1.0)	ND (1.0)		
	10-Feb-06	ND (1.0)	ND (1.0)		
	10-Mar-06	ND (2.0)	ND (1.0)	24,300	7.01
	03-Apr-06	ND (1.0)	ND (1.0)		
	04-May-06	ND (1.0)	ND (1.0)	12,600	6.91
	02-Oct-06	ND (1.0)	ND (1.0)	26,000	7.14
	12-Dec-06	ND (1.0)	ND (1.0)	24,300	6.97
MW-44-70	09-Mar-06	ND (1.0)	ND (1.0)		
	23-Mar-06	ND (1.0) J	ND (1.0)	7,960	7.23

TABLE 3Groundwater COC Sampling Results, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date		Hexavalent Chromium (µg/L)	Dissolved Total Chromium (μg/L)	Specific Conductance (µS/cm)	рН
/IW-44-70	04-Apr-06		ND (1.0)	ND (1.0)		
	04-May-06		ND (1.0)	ND (1.0)	7,270	7.55
	13-Jun-06		ND (1.0)	ND (1.0)		
	13-Jun-06	FD	ND (1.0)	ND (1.0)		
	15-Jun-06		ND (1.0)	ND (1.0)		
	04-Oct-06		ND (1.0)	ND (1.0)	8,220	7.16
	14-Dec-06		ND (1.0)	ND (1.0)	6,640	7.48
IW-44-115	14-Mar-06		735 J	730	13,900	7.76
	22-Mar-06		1440	1970	14,400	7.88
	04-Apr-06		1550	1620		
	04-Apr-06	FD	1570	1570		
	20-Apr-06		1680	1650		
	20-Apr-06	FD	1680	1610		
	26-Apr-06		1560	1580		
	04-May-06		1710	1870	12,600	7.90
	10-May-06		1490	1550		
	17-May-06		1560	1880		
	31-May-06		1610	1580		
	31-May-06	FD	1610	1600		
	13-Jun-06		1420	1350		
	28-Jun-06		1600	1830		
	12-Jul-06		1700 J	1430		
	26-Jul-06		1290	1530		
	09-Aug-06		1230	1460 LF		
	23-Aug-06		1370	1440		
	07-Sep-06		1380	1340		
	21-Sep-06		911	1180		
	05-Oct-06		1300	1310	13,800	7.55
	18-Oct-06		1250	1380		
	15-Nov-06		1210	1480		
	12-Dec-06		1310	1090	15,200	7.89
1W-44-125	09-Mar-06		66.6 R	67.5 R		
	22-Mar-06		362	430	12,200	8.41
	04-Apr-06		372	374		
	20-Apr-06		461	504		
	26-Apr-06		480	485		
	26-Apr-06	FD	479	493		
	04-May-06		584	592	12,700	8.51
	10-May-06		634 J	667	, 	
	17-May-06		612	740		
	31-May-06		413	398		
	28-Jun-06					
	11-Jul-06		373	395		
	11-Jul-06	FD	365	335		
	26-Jul-06	-	155	177		
	26-Jul-06	FD	157	180		

TABLE 3Groundwater COC Sampling Results, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date		Hexavalent Chromium (µg/L)	Dissolved Total Chromium (μg/L)	Specific Conductance (µS/cm)	рН
MW-44-125	09-Aug-06		218	227 LF		
	28-Aug-06		468	486		
	28-Aug-06	FD	462	540		
	07-Sep-06		314	297		
	07-Sep-06	FD	311	275		
	20-Sep-06		224	262		
	20-Sep-06	FD	226	261		
	05-Oct-06		284	280	15,300	7.82
	18-Oct-06		304	327		
	18-Oct-06	FD	308	272		
	15-Nov-06		320	363		
	13-Dec-06		300	321	17,700	8.19
MW-45-095a	24-Mar-06		259	216	14,000	7.86
	13-Jul-06		197	202		
MW-45-095b	24-Mar-06		332	327	15,000	7.92
MW-46-175	14-Mar-06		287	279	17,700	8.30
	24-Mar-06		213	173	17,800	8.57
	07-Apr-06		208 J	186		
	04-May-06		222	237	15,600	8.43
	18-May-06		227	268		
	31-May-06		139 J	169		
	15-Jun-06		233	211		
	30-Jun-06		112	160		
	30-Jun-06	FD	111	164		
	12-Jul-06	יו	135 J	85.8		
	27-Jul-06		174	206		
	09-Aug-06		210	186		
	09-Aug-06	FD	223	214		
	25-Aug-06	10	137	136		
	07-Sep-06		183	170		
	21-Sep-06		190	244		
	05-Oct-06		194	192	15,700	7.92
	05-Oct-06	FD	195	187	17,700	7.82
	18-Oct-06	10	204	253		7.02
	15-Nov-06		163	147		
	13-Nov-06		187	174	21,900	8.36
MW-46-205	14-Mar-06		ND (1.0)	ND (1.0)	22,000	8.15
	24-Mar-06		ND (1.0)	ND (1.0)	21,900	8.44
	07-Apr-06		ND (1.0) J	ND (1.0)		
	04-May-06		ND (1.0)	ND (1.0)	18,900	8.38
	15-Jun-06		ND (1.0)	1.80		
	13-Jul-06		ND (1.0)	3.50		
	10-Aug-06		ND (1.0)	ND (1.0)		
	07-Sep-06		2.00	2.30		
	05-Oct-06		2.10	2.30	18,000	7.94
	13-Dec-06		3.20	3.00	23,400	8.26

TABLE 3Groundwater COC Sampling Results, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (μg/L)	Specific Conductance (µS/cm)	рН
MW-47-55	23-Mar-06	10.9 J	7.90	3,650	7.50
	16-May-06	24.0	27.3		
	10-Oct-06	56.9	56.8	3,670	7.56
	14-Dec-06	61.2	82.0	3,960	7.69
MW-47-115	23-Mar-06	ND (2.0) J	ND (1.0)	14,200	7.65
	16-May-06	1.40	5.10		
	10-Oct-06	ND (3.5)	6.90	14,600	7.46
	14-Dec-06	7.90	6.10	17,400	7.76
MW-48	18-May-06	ND (1.0)	ND (1.0)	16,800	7.57
	06-Jun-06	ND (1.0)	ND (1.0)		
	06-Oct-06	ND (1.0)	ND (1.0)	17,600	7.19 J
	15-Dec-06	ND (2.0)	ND (1.0)	22,300	7.60
MW-49-135	25-Apr-06	ND (1.0) J	ND (1.0)	16,100	5.50 R
10 100	18-May-06	ND (1.0)	ND (1.0)		
	12-Oct-06	ND (1.0)	ND (1.0)	17,000	7.24
	15-Dec-06	ND (1.0)	ND (1.0)	15,700	7.55
MW-49-275	25-Apr-06	ND (1.0)	ND (1.0)	27,700	7.25
WWV-49-275	18-May-06	ND (1.0)	ND (1.0)		
	12-Oct-06	ND (1.0)	ND (1.0)	30,300	7.71
	15-Dec-06	ND (1.0)	ND (1.0)	31,500	8.05
MW-49-365	26-Apr-06	ND (2.0)	ND (1.0)	43,200	7.36
VIVV- 1 3-303	16-May-06	ND (2.0)	ND (1.0)		7.50
	12-Oct-06	ND (2.0)	ND (1.0)	46,000	7.05 R
	15-Dec-06	ND (2.0)	1.10	45,700	7.91
MW-50-095	09-May-06	199	194	5,530	7.95
VIVV-50-055	24-May-06	218	221		
	10-Oct-06	278	277	4,660	7.53
	12-Dec-06	273	262	4,790	7.85
MW 50 200				•	
MW-50-200	09-May-06 24-May-06	7750 5810	7360 5910	22,800	8.13
	10-Oct-06				
	12-Dec-06	9660 10100	11800 9250	18,400 23,400	7.34 7.90
MM 54					
MW-51	12-May-06	4370	4630	10,900	7.68
	30-May-06	4130	4530 4500	11.000	 7 40 J
	06-Oct-06	4560 4630	4590 5360	11,800	7.40 J
0111 - 5	12-Dec-06	4620	5360	9,980	7.66
OW-3D	09-Mar-06	2.50	2.20	8,240	7.82
	06-Oct-06	2.70	3.60	7,630	7.70 J
DW-3M	09-Mar-06	17.0	15.7	5,420	7.77
	12-Oct-06	17.8	20.0 J	5,100	7.40
	12-Oct-06 FD	17.9	15.3 J	4,960	7.49
OW-3S	09-Mar-06	21.2	18.2	1,700	7.53
	12-Oct-06	22.1	20.7	1,640	7.37

TABLE 3Groundwater COC Sampling Results, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (μg/L)	Specific Conductance (µS/cm)	рН
PE-1	13-Dec-05	ND (1.0)	ND (1.0) LF	11,800	7.21
	08-Feb-06	136	136 LF	13,200	7.57
	08-Mar-06	136	125	12,000	7.52
	06-Apr-06	133	117	13,000	7.18
	11-May-06	118	109	11,200	7.55
	15-Jun-06	101	87.3	10,600	7.53
	12-Jul-06	95.9	72.4	10,600	7.49
	09-Aug-06	95.9	83.4	9,650	7.33
	07-Sep-06	85.4	90.5	10,600	7.37
	04-Oct-06	90.1	83.9	10,300	7.18
	01-Nov-06	92.5	83.3	10,800	7.56
	06-Dec-06	97.2	85.8	10,000	7.48
Park Moabi	16-Dec-05	ND (0.2)	ND (1.0)	2,100	7.38
	06-Mar-06	9.50	7.80	1,260	7.69
	03-May-06	9.60	11.8 UF	1,300	7.92
	04-Oct-06	2.00	6.30 LF	1,150	7.25
TW-2D	18-Jan-06	2180	1980 LF	11,400	7.32
	15-Mar-06	1360	1360	8,960	7.41
	03-May-06	1120	1120	7,190	7.44
	04-Oct-06	872	910	9,320	7.23
TW-2S	15-Mar-06	2720	2870	2,680	7.78
	03-May-06	2400	2600	2,520	7.76
	04-Oct-06	1920	2130	2,690	7.55
TW-3D	18-Jan-06	4330	4720 LF	8,740	7.49
	08-Feb-06	3250	2880 LF	9,760	7.52
	08-Mar-06	3040	3210	9,640	7.54
	06-Apr-06	2950	2710	10,900	7.30
	11-May-06	2740	2690	9,900	7.52
	15-Jun-06	2610	2450	9,900	7.63
	12-Jul-06	2590	2440	9,570	7.35
	09-Aug-06	2660	3060	9,280	7.35
	07-Sep-06	2380	2440	9,990	7.40
	04-Oct-06	2470	2460	10,500	7.02
	01-Nov-06	2490	3180	10,600	7.34
	06-Dec-06	2500	2090	10,000	7.38
TW-4	18-May-06	1.00	6.40	21,900	7.71
	05-Jun-06	ND (1.0)	4.10	, 	
	09-Oct-06	28.5	26.6	21,900	7.25
TW-5	10-May-06	1.10 J	1.30	13,600	8.05
-	01-Jun-06	ND (1.0) J	ND (1.0)		
	09-Oct-06	3.60	3.20	14,900	7.67

TABLE 3

Groundwater COC Sampling Results, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

NOTES:

μg/L micrograms per liter

µS/cm microSiemens per centimeter
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

(---) not collected or not available

FD field duplicate sample

LF lab filtered UF unfiltered

Hexavalent chromium analysis methods: SW 7196A (reporting limit 10 μ g/L) and SW 7199 (reporting limit 0.2 μ g/L for undiluted samples).

Other analysis methods: total chromium (dissolved concentrations, Methods SW 6020A and SW 6010B), specific conductance (SW 9050), pH (SW 9040).

Groundwater samples were not collected from MW-39-50 in December 2005 due to a field sampling error. Extraction well TW-2S was not sampled in December 2005 due to concurrent plumbing work for TW-3D and PE-1.

Pumping from converted extraction well PE-1 was initiated on Jan 25, 2006.

Monitoring well MW-21 was not sampled in March 2006 due to the well being purged dry and not recharging.

Monitoring wells MW-12 and MW-29 were sampled in April rather than March 2006 due to inaccessibility to the wells from drilling operations in March.

The field duplicate for monitoring well MW-37S in May 2006 was not analyzed for dissolved total chromium due to a documentation error.

TABLE 4Shoreline Surface Water COC Sampling Results, December 2005 through December 2006 PG&&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (μg/L)	Total Chromium (µg/L)	Specific Conductance (µS/cm)	рН
CON	15-Dec-05	ND (0.2)	ND (1.0)	1,000	8.07
	11-Jan-06	ND (0.2)	ND (1.0)		
	09-Feb-06	ND (0.2)	ND (1.0)		
	06-Mar-06	ND (0.2)	ND (1.0)	1,010	8.13
	07-Apr-06	ND (0.2)	ND (1.0)		
	03-May-06	ND (0.2)	ND (1.0)	997	8.38
	15-Jun-06	ND (0.2)	ND (1.0)		
	12-Jul-06	ND (0.2) J	ND (1.0)		
	08-Aug-06	ND (0.2)	ND (1.0)		
	06-Sep-06	ND (0.2)	ND (1.0)		
	04-Oct-06	ND (0.2)	ND (1.0)	1,010	8.01 R
	15-Nov-06	ND (0.2)	ND (1.0)		
	20-Dec-06	ND (0.2)	ND (1.0)	927	8.17
I-3	15-Dec-05	ND (0.2)	ND (1.0)	1,000	8.08
	11-Jan-06	ND (0.2)	ND (1.0)		
	10-Feb-06	ND (0.2)	ND (1.0)		
	06-Mar-06	ND (0.2)	ND (1.0)	1,010	8.15
	07-Apr-06	ND (0.2)	ND (1.0)		
	03-May-06	ND (0.2)	ND (1.0)	968	8.41
	15-Jun-06	ND (0.2)	ND (1.0)		
	12-Jul-06	ND (0.2)	ND (1.0)		
	10-Aug-06	ND (0.2)	ND (1.0)		
	06-Sep-06	ND (0.2)	ND (1.0)		
	04-Oct-06	ND (0.2)	ND (1.0)	1,040	8.37 R
	15-Nov-06	ND (0.2)	ND (1.0)		
	20-Dec-06	ND (0.2)	ND (1.0)	987	8.28
NR-1	15-Dec-05	ND (0.2)	ND (1.0)	1,010	8.13
	10-Jan-06	ND (0.2)	ND (1.0)	, 	
	07-Feb-06	ND (0.2)	ND (1.0)		
	06-Mar-06	ND (0.2)	ND (1.0)	1,010	8.05
	07-Apr-06	ND (0.2) J	ND (1.0)	, 	
	03-May-06	ND (0.2)	ND (1.0)	986	8.39
	16-Jun-06	ND (0.2)	ND (1.0)		
	13-Jul-06	ND (0.2)	ND (1.0)		
	08-Aug-06	ND (0.2)	ND (1.0)		
	06-Sep-06	ND (0.2)	ND (1.0)		
	04-Oct-06	ND (0.2)	ND (1.0)	1,020	7.79 R
	15-Nov-06	ND (0.2)	ND (1.0)		
	20-Dec-06	ND (0.2)	ND (1.0)	947	8.18
NR-2	15-Dec-05	ND (0.2)	ND (1.0)	1,000	8.18
· ·· · · -	10-Jan-06	ND (0.2)	ND (1.0)		
	07-Feb-06	ND (0.2)	ND (1.0)		
	06-Mar-06	ND (0.2)	ND (1.0)	1,010	8.11
	07-Apr-06	ND (0.2) J	ND (1.0)		
	03-May-06	ND (0.2)	ND (1.0)	992	8.36
	16-Jun-06	ND (0.2)	ND (1.0)		

Date printed: 3/30/2007

TABLE 4Shoreline Surface Water COC Sampling Results, December 2005 through December 2006 PG&&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (µg/L)	Total Chromium (μg/L)	Specific Conductance (µS/cm)	рН
NR-2	13-Jul-06	ND (0.2)	ND (1.0)		
	08-Aug-06	ND (0.2)	ND (1.0)		
	06-Sep-06	ND (0.2)	ND (1.0)		
	04-Oct-06	ND (0.2)	ND (1.0)	1,020	8.03 F
	15-Nov-06	ND (0.2)	ND (1.0)	, 	
	20-Dec-06	ND (0.2)	ND (1.0)	922	8.36
NR-3	15-Dec-05	ND (0.2)	ND (1.0)	1,000	8.18
	10-Jan-06	ND (0.2)	ND (1.0)		
	07-Feb-06	ND (0.2)	ND (1.0)		
	06-Mar-06	ND (0.2)	ND (1.0)	1,010	8.02
	07-Apr-06	ND (0.2) J	ND (1.0)		
	03-May-06	ND (0.2)	ND (1.0)	830	8.32
	16-Jun-06	ND (0.2)	ND (1.0)		
	13-Jul-06	ND (0.2)	ND (1.0)		
	08-Aug-06	ND (0.2)	ND (1.0)		
	06-Sep-06	ND (0.2)	ND (1.0)		
	04-Oct-06	ND (0.2)	ND (1.0)	1,020	8.11 R
	15-Nov-06	ND (0.2)	ND (1.0)		
	20-Dec-06	ND (0.2)	ND (1.0)	925	8.35
R-22	16-Dec-05	ND (0.2)	ND (1.0)	1,020	8.13
	11-Jan-06	ND (0.2)	ND (1.0)	, 	
	08-Feb-06	ND (0.2)	ND (1.0)		
	06-Mar-06	ND (0.2)	ND (1.0)	1,010	8.01
	07-Apr-06	ND (0.2)	ND (1.0)		
	03-May-06	ND (0.2)	ND (1.0)	998	8.41
	15-Jun-06	ND (0.2)	ND (1.0)		
	12-Jul-06	ND (0.2)	ND (1.0)		
	08-Aug-06	ND (0.2)	ND (1.0)		
	07-Sep-06	ND (0.2)	ND (1.0)		
	04-Oct-06	ND (1.0)	ND (1.0)	1,020	7.68
	15-Nov-06	ND (0.2)	ND (1.0)		
	20-Dec-06	ND (0.2)	ND (1.0)	928	8.19
R-27	16-Dec-05	ND (0.2)	ND (1.0)	1,010	8.11
	12-Jan-06	ND (0.2)	ND (1.0)		
	08-Feb-06	ND (0.2)	ND (1.0)		
	06-Mar-06	ND (0.2)	ND (1.0)	1,010	8.09
	07-Apr-06	ND (0.2) J	ND (1.0)		
	03-May-06	ND (0.2)	ND (1.0)	1,010	8.38
	15-Jun-06	ND (0.2)	ND (1.0)		
	12-Jul-06	ND (0.2) J	ND (1.0)		
	08-Aug-06	ND (0.2)	ND (1.0)		
	07-Sep-06	ND (0.2)	ND (1.0)		
	04-Oct-06	ND (0.2)	ND (1.0)	1,020	8.45 R
	J . J J . J J	(0.2)	. 12 (1.0)	.,020	5. 10 11
	15-Nov-06	ND (0.2)	ND (1 0)		
	15-Nov-06 20-Dec-06	ND (0.2) ND (0.2)	ND (1.0) ND (1.0)	 911	 8.21

Date printed: 3/30/2007

TABLE 4
Shoreline Surface Water COC Sampling Results, December 2005 through December 2006
PG&&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (µg/L)	Total Chromium (µg/L)	Specific Conductance (µS/cm)	рН
R-28	10-Jan-06	ND (0.2)	ND (1.0)		
	08-Feb-06	ND (0.2)	ND (1.0)		
	06-Mar-06	ND (0.2)	ND (1.0)	1,010	8.15
	07-Apr-06	ND (0.2) J	ND (1.0)		
	03-May-06	ND (0.2)	ND (1.0)	877	8.36
	15-Jun-06	ND (0.2)	ND (1.0)		
	13-Jul-06	ND (0.2)	ND (1.0)		
	08-Aug-06	ND (0.2)	ND (1.0)		
	07-Sep-06	ND (0.2)	ND (1.0)		
	04-Oct-06	ND (0.2)	ND (1.0)	1,010	8.25 R
	15-Nov-06	ND (0.2)	ND (1.0)		
	20-Dec-06	ND (0.2)	ND (1.0)	896	8.16
RRB	08-Feb-06	ND (0.2)	ND (1.0)		
	06-Mar-06	ND (0.2)	ND (1.0)	1,040	8.05
	07-Apr-06	ND (0.2)	ND (1.0)		
	03-May-06	ND (0.2)	ND (1.0)	920	8.40
	16-Jun-06	ND (0.2)	ND (1.0)		
	12-Jul-06	ND (0.2) J	ND (1.0)		
	10-Aug-06	ND (0.2)	ND (1.0)		
	06-Sep-06	ND (0.2)	ND (1.0)		
	04-Oct-06	ND (0.2)	ND (1.0)	1,070	7.90 R
	15-Nov-06	ND (0.2)	ND (1.0)		
	20-Dec-06	ND (1.0)	ND (1.0)	3,870	7.73

NOTES:

μg/L micrograms per liter

μS/cm microSiemens per centimeter

ND not detected at listed reporting limit

J concentration or reporting limit estimated by laboratory or data validation

(---) data not collected or not available

R result exceeded analytical criteria for precision and accuracy; should not be used for project decision-making

Hexavalent chromium analysis method: SW7199 (reporting limit 0.2 µg/L)

Other analysis methods: total chromium (Methods SW 6020A and SW 6010B), specific conductance (EPA120.1), pH (EPA150.1)

Surface water station RRB was not sampled in January 2006 due to the location being dry.

TABLE 5
In-Channel Surface Water COC and Additional Parameters Sampling Results, December 2005 through December 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	рН	Hardness mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
C-CON-S	13-Dec-05	ND (0.2)	ND (1.0)	1,060	8.17	328	720	ND (10)
C-CON-M	13-Dec-05	ND (0.2)	ND (1.0)	1,060	8.17	332	730	ND (10)
C-CON-D	13-Dec-05	ND (0.2)	ND (1.0)	1,070	8.14	340	710	ND (10)
C-CON-S	18-Jan-06	* *				334		
C-CON-M	18-Jan-06					328		
C-CON-D	18-Jan-06					330		
C-CON-S	22-Mar-06			1,030	8.23	344	740	ND (10)
C-CON-M	22-Mar-06	ND (0.2)	ND (1.0)	1,030	8.23	349	740	ND (10)
C-CON-D	22-Mar-06	ND (0.2)	ND (1.0)	1,030	8.24	340	730	ND (10)
C-CON-S	15-Jun-06	ND (0.2)	ND (1.0)	987	8.12	340	695	ND (10)
C-CON-M	15-Jun-06	ND (0.2)	ND (1.0)	979	8.13	340	710	ND (10)
C-CON-D	15-Jun-06	ND (0.2)	ND (1.0)	964	8.13	336	710	ND (10)
C-CON-S	03-Oct-06	ND (0.2)	ND (1.0)	955	8.00	325	570	ND (10)
C-CON-M	03-Oct-06	ND (0.2)	ND (1.0)	953	8.02	313	615	ND (10)
C-CON-D	03-Oct-06	ND (0.2)	ND (1.0)	956	8.04	313	580	ND (10)
C-CON-S	16-Nov-06	ND (0.2)	ND (1.0)			380		
C-CON-M	16-Nov-06	ND (0.2)	ND (1.0)			350		
C-CON-D	16-Nov-06	ND (0.2)	ND (1.0)			345		
C-CON-S	19-Dec-06	ND (0.2)	ND (1.0)	912	8.14	324	705	ND (10)
C-CON-M	19-Dec-06	ND (0.2)	ND (1.0)	903	8.24	332	730	ND (10)
C-CON-D	19-Dec-06	ND (0.2)	ND (1.0)	892	8.14	432	720	ND (10)
C-I-3-S	13-Dec-05	ND (0.2)	ND (1.0)	1,070	8.20	332	750	ND (10)
C-I-3-M	13-Dec-05	ND (0.2)	ND (1.0)	1,070	8.16	328	705	ND (10)
C-I-3-D	13-Dec-05	ND (0.2)	ND (1.0)	1,060	8.18	336	730	ND (10)
C-I-3-S	19-Jan-06	ND (0.2)	ND (1.0)			330		
C-I-3-M	19-Jan-06	ND (0.2)	ND (1.0)			330		
C-I-3-D	19-Jan-06	ND (0.2)	ND (1.0)			332		
C-I-3-S	23-Mar-06	ND (0.2)	ND (1.0)	1,030	8.30	336	735	ND (10)
C-I-3-M	23-Mar-06	ND (0.2)	ND (1.0)	1,030	8.29	336	725	ND (10)
C-I-3-D	23-Mar-06	ND (0.2)	ND (1.0)	1,030	8.29	344	720	ND (10)
C-I-3-S	15-Jun-06	ND (0.2)	ND (1.0)	950	8.06	340	715	ND (10)

TABLE 5
In-Channel Surface Water COC and Additional Parameters Sampling Results, December 2005 through December 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	рН	Hardness mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
C-I-3-M	15-Jun-06	ND (0.2)	ND (1.0)	956	8.08	340	710	ND (10)
C-I-3-D	15-Jun-06	ND (0.2)	ND (1.0)	954	8.09	370	675	ND (10)
C-I-3-S	03-Oct-06	ND (0.2)	ND (1.0)	ND (1.0) 962 8			630	ND (10)
C-I-3-M	03-Oct-06 ND (0.2)		ND (1.0)	953	8.12	297	615	ND (10)
C-I-3-D	03-Oct-06 ND (0.2)		ND (1.0)	943	8.12	309	660	ND (10)
C-I-3-S	15-Nov-06 ND (0.2)		ND (1.0)			350		
C-I-3-M	15-Nov-06 ND (0.2)		ND (1.0)			340		
C-I-3-D	15-Nov-06 ND (0.2)		ND (1.0)			370		
C-I-3-S	19-Dec-06 ND (0.2)		ND (1.0)	942	8.22	332	685	ND (10)
C-I-3-M	19-Dec-06	ND (0.2)	ND (1.0)	905	8.29	332	720	ND (10)
C-I-3-D	19-Dec-06	ND (0.2)	ND (1.0)	901	8.23	324	715	ND (10)
C-MAR-M	13-Dec-05	ND (0.2)	ND (1.0)	1,380	7.95	422	950	20.0
C-MAR-M	19-Jan-06	ND (0.2)	ND (1.0)			368		
C-MAR-M	23-Mar-06	ND (0.2)	ND (1.0)	1,170	7.97	392	830	46.0
C-MAR-S	15-Jun-06	ND (0.2)	ND (1.0)	987	7.86	353	685	32.0
C-MAR-D	15-Jun-06	ND (0.2)	ND (1.0)	1,000	7.87	366	705	31.0
C-MAR-M	03-Oct-06	ND (0.2)	ND (1.0)	985	7.84	325	660	72.0
C-MAR-M	16-Nov-06	ND (0.2)	ND (1.0)			620		
C-MAR-M	19-Dec-06	ND (0.2)	ND (1.0)	1,830	7.85	616	1410	71.0
C-NR1-S	14-Dec-05	ND (0.2)	ND (1.0)	1,070	8.18	336	705	ND (10)
C-NR1-M	14-Dec-05	ND (0.2)	ND (1.0)	1,060	8.21	340	695	ND (10)
C-NR1-D	14-Dec-05	ND (0.2)	ND (1.0)	1,060	8.11	332	700	ND (10)
C-NR1-S	18-Jan-06	ND (0.2)	ND (1.0)			330		
C-NR1-M	18-Jan-06	ND (0.2)	ND (1.0)			328		
C-NR1-D	18-Jan-06	ND (0.2)	ND (1.0)			326		
C-NR1-S	22-Mar-06	ND (0.2)	ND (1.0)	1,030	8.24	344	730	ND (10)
C-NR1-M	22-Mar-06	ND (0.2)	ND (1.0)	1,030	8.23	349	720	ND (10)
C-NR1-D	22-Mar-06	ND (0.2)	ND (1.0)	1,030	8.23	344	765	ND (10)
C-NR1-S	16-Jun-06	ND (0.2)	ND (1.0)	950	9.56	328	690	ND (10)
C-NR1-M	16-Jun-06	ND (0.2)	ND (1.0)	938	9.62	328	700	ND (10)
C-NR1-D	16-Jun-06	ND (0.2)	ND (1.0)	931	9.60	340	725	ND (10)

TABLE 5
In-Channel Surface Water COC and Additional Parameters Sampling Results, December 2005 through December 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (μg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	рН	Hardness mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
C-NR1-S	04-Oct-06	ND (0.2)	ND (1.0)	1,000	8.20	335	740	ND (10)
C-NR1-M	04-Oct-06	ND (0.2)	ND (1.0)	995	8.18	323	750	ND (10)
C-NR1-D	04-Oct-06	ND (0.2)	ND (1.0)	986	8.19	315	750	ND (10)
C-NR1-S	16-Nov-06	ND (0.2)	ND (1.0)			370		
C-NR1-M	16-Nov-06	ND (0.2)	ND (1.0)			365		
C-NR1-D	16-Nov-06	ND (0.2)	ND (1.0)			350		
C-NR1-S	19-Dec-06	ND (0.2)	ND (1.0)	909	8.04	324	720	ND (10)
C-NR1-M	19-Dec-06	ND (0.2)	ND (1.0)	911	8.24	316	715	ND (10)
C-NR1-D	19-Dec-06	ND (0.2)	ND (1.0)	923	8.20	316	665	ND (10)
C-NR3-S	14-Dec-05	ND (0.2)	ND (1.0)	1,060	8.15	336	730	ND (10)
C-NR3-M	14-Dec-05	ND (0.2)	ND (1.0)	1,060	8.20	332	690	ND (10)
C-NR3-D	14-Dec-05	ND (0.2)	ND (1.0)	1,060	8.18	336	665	ND (10)
C-NR3-S	18-Jan-06	ND (0.2)	ND (1.0)			330		
C-NR3-M	18-Jan-06	ND (0.2)	ND (1.0)			330		
C-NR3-D	18-Jan-06	ND (0.2)	ND (1.0)			340		
C-NR3-S	22-Mar-06	ND (0.2)	ND (1.0)	1,030	8.23	349	790	ND (10)
C-NR3-M	22-Mar-06	ND (0.2)	ND (1.0)	1,030	8.21	349	745	ND (10)
C-NR3-D	22-Mar-06	ND (0.2)	ND (1.0)	1,030	8.20	336	715	ND (10)
C-NR3-S	16-Jun-06	ND (0.2)	ND (1.0)	915	9.88	340	715	ND (10)
C-NR3-M	16-Jun-06	ND (0.2)	ND (1.0)	934	9.92	340	690	ND (10)
C-NR3-D	16-Jun-06	ND (0.2)	ND (1.0)	957	9.82	345	715	ND (10)
C-NR3-S	04-Oct-06	ND (0.2)	ND (1.0)	975	8.17	323	715	ND (10)
C-NR3-M	04-Oct-06	ND (0.2)	ND (1.0)	981	8.19	327	705	ND (10)
C-NR3-D	04-Oct-06	ND (0.2)	ND (1.0)	987	8.16	331	735	ND (10)
C-NR3-S	16-Nov-06	ND (0.2)	ND (1.0)			370		
C-NR3-M	16-Nov-06	ND (0.2)	ND (1.0)			350		
C-NR3-D	16-Nov-06	ND (0.2)	ND (1.0)			350		
C-NR3-S	19-Dec-06	ND (0.2)	ND (1.0)	935	8.03	340	715	ND (10)
C-NR3-M	19-Dec-06	ND (0.2)	ND (1.0)	906	8.08	320	735	ND (10)
C-NR3-D	19-Dec-06	ND (0.2)	ND (1.0)	901	8.15	304	685	ND (10)
C-NR4-S	14-Dec-05	ND (0.2)	ND (1.0)	1,060	8.04	336	715	ND (10)

TABLE 5
In-Channel Surface Water COC and Additional Parameters Sampling Results, December 2005 through December 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	рН	Hardness mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
C-NR4-M	14-Dec-05	ND (0.2)	ND (1.0)	1,060	8.17	340	690	ND (10)
C-NR4-D	14-Dec-05	ND (0.2)	ND (1.0)	1,060	8.15	336	680	ND (10)
C-NR4-S	18-Jan-06	ND (0.2)	ND (1.0)			320		
C-NR4-M	18-Jan-06	ND (0.2)	ND (1.0)			330		
C-NR4-D	18-Jan-06	ND (0.2)	ND (1.0)			328		
C-NR4-S	22-Mar-06	ND (0.2)	ND (1.0)	1,030	8.21	344	725	ND (10)
C-NR4-M	22-Mar-06	ND (0.2)	ND (1.0)	1,020	8.10	340	745	ND (10)
C-NR4-D	22-Mar-06	ND (0.2)	ND (1.0)	1,030	8.22	344	730	ND (10)
C-NR4-S	16-Jun-06	ND (0.2)	ND (1.0)	931	9.88	366	685	ND (10)
C-NR4-M	16-Jun-06	ND (0.2)	ND (1.0)	922	9.86	345	655	ND (10)
C-NR4-D	16-Jun-06	ND (0.2)	ND (1.0)	902	9.92	332	685	ND (10)
C-NR4-S	04-Oct-06	ND (0.2)	ND (1.0)	995	8.09	343	740	ND (10)
C-NR4-M	04-Oct-06	ND (0.2)	ND (1.0)	983	8.16	335	730	ND (10)
C-NR4-D	04-Oct-06	ND (0.2)	ND (1.0)	970	8.17	323	710	ND (10)
C-NR4-S	16-Nov-06	ND (0.2)	ND (1.0)			370		
C-NR4-M	16-Nov-06	ND (0.2)	ND (1.0)			350		
C-NR4-D	16-Nov-06	ND (0.2)	ND (1.0)			380		
C-NR4-S	20-Dec-06	ND (0.2)	ND (1.0)	915	8.29	300	670	ND (10)
C-NR4-M	20-Dec-06	ND (0.2)	ND (1.0)	915	8.25	328	645	ND (10)
C-NR4-D	20-Dec-06	ND (0.2)	ND (1.0)	922	8.15	324	660	ND (10)
C-R22-S	13-Dec-05	ND (0.2)	ND (1.0)	1,070	8.18	332	710	ND (10)
C-R22-M	13-Dec-05	ND (0.2)	ND (1.0)	1,070	8.17	336	705	ND (10)
C-R22-D	13-Dec-05	ND (0.2)	ND (1.0)	1,070	8.21	336	720	ND (10)
C-R22-S	19-Jan-06	ND (0.2)	ND (1.0)			330		
C-R22-M	19-Jan-06	ND (0.2)	ND (1.0)			330		
C-R22-D	19-Jan-06	ND (0.2)	ND (1.0)			336		
C-R22-S	23-Mar-06	ND (0.2)	ND (1.0)	1,040	8.26	340	735	ND (10)
C-R22-M	23-Mar-06	ND (0.2)	ND (1.0)	1,040	8.29	340	725	ND (10)
C-R22-D	23-Mar-06	ND (0.2)	ND (1.0)	1,020	8.28	344	725	ND (10)
C-R22-S	15-Jun-06	ND (0.2)	ND (1.0)	966	8.14	349	680	ND (10)
C-R22-M	15-Jun-06	ND (0.2)	ND (1.0)	988	8.14	332	700	ND (10)

TABLE 5
In-Channel Surface Water COC and Additional Parameters Sampling Results, December 2005 through December 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (μg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pН	Hardness mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
C-R22-D	15-Jun-06	ND (0.2)	ND (1.0)	954	8.02	375	700	ND (10)
C-R22-S	03-Oct-06	ND (0.2)	ND (1.0)	946	8.16	309	705	ND (10)
C-R22-M	03-Oct-06	ND (0.2)	ND (1.0)	975	8.16	313	690	ND (10)
C-R22-D	03-Oct-06	ND (0.2)	ND (1.0)	964	8.15	305	720	ND (10)
C-R22-S	15-Nov-06	ND (0.2)	ND (1.0)			325		
C-R22-M	15-Nov-06	ND (0.2)	ND (1.0)			340		
C-R22-D	15-Nov-06	ND (0.2)	ND (1.0)			350		
C-R22-S	19-Dec-06	ND (0.2)	ND (1.0)	940	8.15	332	730	ND (10)
C-R22-M	19-Dec-06	ND (0.2)	ND (1.0)	892	8.03	312	675	ND (10)
C-R22-D	19-Dec-06	ND (0.2)	ND (1.0)	927	8.31	356	750	ND (10)
C-R27-S	13-Dec-05	ND (0.2)	ND (1.0)	1,070	8.18	340	715	ND (10)
C-R27-M	13-Dec-05	ND (0.2)	ND (1.0)	1,070	8.18	357	700	ND (10)
C-R27-D	13-Dec-05	ND (0.2)	ND (1.0)	1,060	8.14	340	710	ND (10)
C-R27-S	19-Jan-06	ND (0.2)	ND (1.0)			338		
C-R27-M	19-Jan-06	ND (0.2)	ND (1.0)			328		
C-R27-D	19-Jan-06	ND (0.2)	ND (1.0)			316		
C-R27-M	23-Mar-06	ND (0.2)	ND (1.0)	1,030	8.29	353	730	ND (10)
C-R27-S	15-Jun-06	ND (0.2)	ND (1.0)	965	8.14	340	690	ND (10)
C-R27-M	15-Jun-06	ND (0.2)	ND (1.0)	980	8.14	336	715	ND (10)
C-R27-D	15-Jun-06	ND (0.2)	ND (1.0)	976	8.14	328	665	ND (10)
C-R27-S	03-Oct-06	ND (0.2)	ND (1.0)	931	8.10	333	615	ND (10)
C-R27-M	03-Oct-06	ND (0.2)	ND (1.0)	944	8.11	297	630	ND (10)
C-R27-D	03-Oct-06	ND (0.2)	ND (1.0)	946	8.11	297	615	ND (10)
C-R27-S	16-Nov-06	ND (0.2)	ND (1.0)			350		
C-R27-D	16-Nov-06	ND (0.2)	ND (1.0)			350		
C-R27-M	19-Dec-06	ND (0.2)	ND (1.0)	873	8.25	320	695	ND (10)
C-TAZ-S	13-Dec-05	ND (0.2)	ND (1.0)	1,070	8.15	344	715	ND (10)
C-TAZ-M	13-Dec-05	ND (0.2)	ND (1.0)	1,070	8.20	340	705	ND (10)
C-TAZ-D	13-Dec-05	ND (0.2)	ND (1.0)	1,070	8.21	340	730	ND (10)
C-TAZ-S	19-Jan-06	NA ´	ND (1.0)			324		
C-TAZ-M	19-Jan-06	NA	ND (1.0)			332		

TABLE 5
In-Channel Surface Water COC and Additional Parameters Sampling Results, December 2005 through December 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (μg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pН	Hardness mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
C-TAZ-D	19-Jan-06	NA	ND (1.0)			340		
C-TAZ-S	23-Mar-06	ND (0.2)	ND (1.0)	1,030	8.31	344	745	ND (10)
C-TAZ-M	23-Mar-06	ND (0.2)	ND (1.0)	1,030	8.31	344	715	ND (10)
C-TAZ-D	23-Mar-06	ND (0.2)	ND (1.0)	1,030	8.30	340	745	ND (10)
C-TAZ-S	15-Jun-06	ND (0.2)	ND (1.0)	958	8.08	340	680	ND (10)
C-TAZ-M	15-Jun-06	ND (0.2)	ND (1.0)	962	8.09	345	695	ND (10)
C-TAZ-D	15-Jun-06	ND (0.2)	ND (1.0)	972	8.11	353	730	ND (10)
C-TAZ-S	03-Oct-06	ND (0.2)	ND (1.0)	956	8.14	309	665	ND (10)
C-TAZ-M	03-Oct-06	ND (0.2)	ND (1.0)	955	8.15	309	680	ND (10)
C-TAZ-D	03-Oct-06	ND (0.2)	ND (1.0)	926	8.15	329	640	ND (10)
C-TAZ-S	15-Nov-06	ND (0.2)	ND (1.0)			340		
C-TAZ-M	15-Nov-06	ND (0.2)	ND (1.0)			345		
C-TAZ-D	15-Nov-06	ND (0.2)	ND (1.0)			380		
C-TAZ-S	19-Dec-06	ND (0.2)	ND (1.0)	897	8.30	316	700	ND (10)
C-TAZ-M	19-Dec-06	ND (0.2)	ND (1.0)	886	8.24	316	700	ND (10)
C-TAZ-D	19-Dec-06	ND (0.2)	ND (1.0)	920	8.13	312	695	ND (10)

TABLE 5

In-Channel Surface Water COC and Additional Parameters Sampling Results, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

NOTES:

μg/L micrograms per liter

µS/cm microSiemens per centimeter

ND not detected at listed reporting limit (---) data not collected or not available

NA not analyzed

Hexavalent chromium analysis method: SW 7199 (reporting limit 0.2 µg/L)

Other analysis methods: total chromium (dissolved concentrations, Methods SW 6020A and SW 6010B, reporting limit 1 µg/L for undiluted samples), specific conductance (EPA120.1), pH (EPA150.1), hardness (EPA130.2), total dissolved solids (EPA160.1), and total suspended solids (EPA160.2).

The sample ID's for the depth-specific surface water samples are:

S = shallow (1 foot from water surface)

M = middle (mid-point of water column)

D = deep (1 foot from river bottom)

In January 2006, river samples from C-TAZ were not analyzed for hexavalent chromium due to holding time being exceeded from sudden illness of the courier. River samples were not collected at C-MAR-S and C-MAR-D due to shallow water column at location.

In March 2006, river samples were not collected at C-MAR-S, C-MAR-D, C-R27-S and C-R27-D due to shallow water column at locations.

In June 2006, river sample was not collected at C-MAR-M due to a shallow water column at the location.

In October 2006 river samples C-MAR-S and C-MAR-D were not collected due to a shallow water column at the location.

In November 2006, river samples were not collected at C-MAR-S, C-MAR-D, and C-R27-M due to shallow water column at locations.

In December 2006, river samples were not collected at C-MAR-S, C-MAR-D, C-R27-S and C-R27-D due to shallow water column at locations.

TABLE 6
Title 22 Metal Results, September 2004 through December 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

(California MCL:	6	10 ^	1000	4	5	NE	50	1000 *	NE	2	NE	100	50	100*	2	NE	5000*
Well ID	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
MW-10	9/21/2004	ND (5.0)	ND (10)	45.8	ND (3.0)	ND (3.0)	ND (3.0)	1960	6.40	ND (5.0)	ND (0.2)	115	ND (5.0)	ND (10)	ND (3.0)	ND (15)	25.2	22.7
MW-10	12/17/2004	ND (5.0)	ND (10)	44.9	ND (3.1)	ND (3.1)	ND (3.1)	1300	ND (5.0)	ND (2.1)	ND (0.2)	100	ND (5.0)	ND (10)	61.8	ND (15)	40.0	54.9
MW-10	3/8/2005	ND (5.0)	ND (10)	42.0	ND (3.1)	ND (3.1)	ND (3.1)	1110	ND (5.0)	ND (2.1)	ND (0.2)	83.3	ND (5.0)	ND (10)	ND (3.1)	ND (15)	141	56.2
MW-10 FD	3/8/2005	ND (5.0)	ND (10)	49.3	ND (3.1)	ND (3.1)	ND (3.1)	1100	ND (5.0)	ND (2.1)	ND (0.2)	81.1	ND (5.0)	ND (10)	ND (3.1)	ND (15)	165	65.6
MW-10	6/16/2005	ND (2.0)	6.39	45.5	ND (1.0)	ND (1.0)	ND (1.0)	1400	ND (1.0)	1.53	ND (0.2)	114	1.70	4.90	ND (1.0)	ND (1.0)	33.5	ND (10
MW-10	10/3/2005	ND (2.0)	14.3	ND (300)	ND (1.0)	ND (1.0)	ND (1.0)	4900	ND (10)	1.53	ND (0.2)	301	ND (20)	1.93	ND (1.0)	ND (1.0)	49.7	79.4
MW-10	12/12/2005	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	3040	ND (10)	ND (2.0)	ND (0.2)	168	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	40.2	ND (20
MW-10	3/6/2006	ND (2.0)	8.45	59.5	ND (1.0)	ND (1.0)	ND (1.0)	2120	1.21	ND (1.0)	ND (0.2)	142	2.31	3.64	ND (1.0)	ND (1.0) J	41.3	10.1
MW-10	5/4/2006	ND (2.0)	8.31	58.1	ND (1.0)	ND (1.0)	ND (1.0)	1780	1.18	1.06	ND (0.2)	122	1.96	3.91	ND (1.0)	ND (1.0)	37.9	ND (10
MW-10	10/12/2006	ND (2.0)	9.20	58.4	ND (1.0)	ND (1.0)	ND (1.0)	2480	ND (1.0)	ND (1.0)	ND (0.2)	169	2.31	3.64	ND (1.0)	ND (1.0)	42.1	ND (10
MW-10	12/14/2006	ND (2.0)	11.7	53.4	ND (1.0)	ND (1.0)	ND (1.0)	3040	1.30	1.26	ND (0.2)	245	2.05	3.25	ND (1.0)	ND (1.0)	51.4	ND (10
MW-11	9/21/2004	ND (5.0)	ND (10)	45.1	ND (3.0)	ND (3.0)	ND (3.0)	431	ND (5.0)	ND (5.0)	ND (0.2)	8.80	ND (5.0)	ND (10)	ND (3.0)	ND (15)	5.80	ND (10
MW-11	12/17/2004	ND (5.0)	ND (10)	38.8	ND (3.1)	ND (3.1)	ND (3.1)	393	ND (5.0)	ND (2.1)	ND (0.2)	9.40	ND (5.0)	13.6	ND (3.1)	ND (15)	9.90	27.4
MW-11	3/8/2005	ND (5.0)	ND (10)	38.3	ND (3.1)	ND (3.1)	ND (3.1)	357	ND (5.0)	ND (2.1)	ND (0.2)	9.00	ND (5.0)	ND (10)	ND (3.1)	ND (15)	85.9	56.7
MW-11	6/16/2005	ND (2.0)	1.53	42.1	ND (1.0)	ND (1.0)	ND (1.0)	379	ND (1.0)	ND (1.0)	ND (0.2)	11.5	1.03	4.50	ND (1.0)	ND (1.0)	8.31	13.4
MW-11	10/3/2005	ND (2.0)	1.68	ND (300)	ND (1.0)	ND (1.0)	ND (1.0)	617	ND (10)	ND (1.0)	ND (0.2)	16.4	ND (20)	5.31	ND (1.0)	ND (1.0)	6.30	ND (20
MW-11	12/12/2005	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	449	ND (10)	ND (2.0)	ND (0.2)	9.40	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	8.30	ND (20
MW-11	3/6/2006	ND (2.0)	1.64	39.8	ND (1.0)	ND (1.0)	ND (1.0)	306	1.22	ND (1.0)	ND (0.2)	8.08	ND (1.0)	5.79	ND (1.0)	ND (1.0)	8.94	12.1
MW-11	5/9/2006	ND (2.0)	1.72	39.5	ND (1.0)	ND (1.0)	ND (1.0)	348 J	ND (1.0)	ND (1.0)	ND (0.2)	9.28	ND (1.0)	5.73	ND (1.0)	ND (1.0)	8.76	ND (10
MW-11	10/12/2006	ND (2.0)	1.65	41.4	ND (1.0)	ND (1.0)	ND (1.0)	339	ND (1.0)	ND (1.0)	ND (0.2)	8.81	ND (1.0)	6.17	ND (1.0)	ND (1.0)	8.71	ND (10
MW-12	9/20/2004	20.9	68.6	62.8	ND (3.0)	ND (3.0)	ND (3.0)	1490	ND (5.0)	ND (5.0)	ND (0.2)	41.2	ND (5.0)	ND (10)	ND (3.0)	ND (15)	24.6	19.2
MW-12	3/10/2005	ND (5.0)	53.4	38.9	ND (3.1)	ND (3.1)	ND (3.1)	945	ND (5.0)	ND (2.1)	ND (0.2)	36.1	ND (5.0)	ND (10)	ND (3.1)	ND (15)	218	37.5
MW-12 FD	3/10/2005	ND (5.0)	64.2	39.9	ND (3.1)	ND (3.1)	ND (3.1)	912	ND (5.0)	ND (2.1)	ND (0.2)	40.7	ND (5.0)	ND (10)	ND (3.1)	ND (15)	202	54.6
MW-12	6/13/2005	ND (2.0)	110	44.1	ND (3.1)	ND (3.1)	ND (1.0)	957	ND (1.0)	ND (2.1)	ND (0.2)	77.3	11.7	5.73	ND (3.1)	1.11	34.2	24.4
MW-12	9/16/2005	ND (5.0)	103	110	ND (3.0)	ND (3.0)	ND (3.0)	618	ND (5.0)	5.70	ND (0.2)	63.5	17.9	ND (10)	ND (3.0)	ND (15)	52.2	75.5
		ND (2.0)	146	ND (300)	ND (3.0)	ND (3.0)	ND (3.0)	644	ND (3.0)	3.70 ND (1.0)	ND (0.2)	76.9	ND (20)	3.92	ND (3.0)	ND (1.0)	41.6	75.5 ND (20
MW-12	10/4/2005	ND (2.0)		ND (300)	ND (1.0)	ND (1.0)	ND (1.0)	613	ND (10)	ND (1.0)	ND (0.2)	76.9 79.1	ND (20)	4.06	ND (1.0)	ND (1.0)	39.7	ND (20
MW-12 FD	10/4/2005		151															ND (20
MW-12	12/13/2005	ND (3.0)	157	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	602 1300	ND (10)	ND (2.0)	ND (0.2)	62.8	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	45.9 40.8	ND (20
MW-12	4/18/2006	ND (2.0)	127	48.2	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)	ND (1.0)	ND (0.2)	52.8	3.91	4.30	ND (1.0) J	ND (1.0)		
MW-12	5/1/2006	ND (2.0)	126	49.3	ND (1.0)	ND (1.0)	ND (1.0)	1280	ND (1.0)	ND (1.0)	ND (0.2)	50.1	2.31	4.42	ND (1.0)	ND (1.0)	39.7	ND (10
MW-12	10/4/2006	ND (2.0)	84.8	81.1	ND (1.0)	ND (1.0)	ND (1.0)	1790	4.24	ND (1.0)	ND (0.2)	35.9	1.72	4.56	ND (1.0)	ND (1.0)	30.4	ND (10
MW-12	12/13/2006	ND (2.0)	88.7	72.0	ND (1.0)	ND (1.0)	ND (1.0)	1880	ND (1.0)	ND (1.0)	ND (0.2)	32.2	2.40	5.54	ND (1.0)	ND (1.0)	31.2	22.4
W-20-70	9/24/2004	ND (5.0)	ND (10)	59.1	ND (3.0)	ND (3.0)	ND (3.0)	7550	10.8	ND (5.0)	ND (0.2)	20.6	ND (5.0)	18.1	ND (3.0)	ND (15)	ND (3.0)	24.8
IW-20-70	12/16/2004	ND (5.0)	ND (10)	36.6	ND (3.1)	ND (3.1)	ND (3.1)	7230	ND (5.0)	ND (2.1)	ND (0.2)	18.1	ND (5.0)	ND (10)	ND (3.1)	ND (15)	9.40	25.6
1W-20-70	3/10/2005	ND (5.0)	ND (10)	51.0	ND (3.1)	ND (3.1)	ND (3.1)	8120	ND (5.0)	ND (2.1)	ND (0.2)	13.0	5.20	ND (10)	ND (3.1)	ND (15)	91.6	136
IW-20-70	6/15/2005	ND (2.0)	1.59	47.4	ND (1.0)	ND (1.0)	ND (1.0)	6430	ND (1.0)	ND (1.0)	ND (0.2)	17.5	2.41	7.36	ND (1.0)	ND (1.0)	7.46	43.1
IW-20-70 FD	6/15/2005	ND (2.0)	1.62	51.8	ND (1.0)	ND (1.0)	ND (1.0)	7130	1.86	1.37	ND (0.2)	17.9	2.28	7.83	ND (1.0)	ND (1.0)	8.24	159 .
W-20-70	10/11/2005	ND (2.0)	2.04	ND (300)	ND (1.0)	ND (1.0)	ND (1.0)	5930	ND (10)	ND (1.0)	ND (0.2)	23.0	ND (20)	8.81	ND (1.0)	ND (1.0)	117	ND (20
W-20-70	12/15/2005	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	4310	ND (10)	ND (2.0)	ND (0.2)	21.8	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	10.2	ND (20

TABLE 6
Title 22 Metal Results, September 2004 through December 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

C	California MCL:	6	10 ^	1000	4	5	NE	50	1000 *	NE	2	NE	100	50	100*	2	NE	5000*
Well ID	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
MW-20-70	3/10/2006	ND (2.0)	2.20	36.5	ND (1.0)	ND (1.0)	ND (1.0)	4510	1.07	ND (1.0)	ND (0.2)	21.8	ND (1.0)	9.15	ND (1.0)	ND (1.0)	10.7	11.2
MW-20-70	5/5/2006	ND (2.0)	2.01	39.9	ND (1.0)	ND (1.0)	ND (1.0)	4670	ND (1.0)	ND (1.0)	ND (0.2)	22.4	ND (1.0)	10.1	ND (1.0)	ND (1.0)	9.66	ND (10) J
MW-20-70	10/3/2006	ND (2.0)	1.92	37.8	ND (1.0)	ND (1.0)	ND (1.0)	3390	ND (1.0)	ND (1.0)	ND (0.2)	28.9	ND (1.0)	11.1	ND (1.0)	ND (1.0)	9.61	ND (10)
MW-20-70 FD	10/3/2006	ND (2.0)	1.79	37.3	ND (1.0)	ND (1.0)	ND (1.0)	3330	ND (1.0)	ND (1.0)	ND (0.2)	27.1	ND (1.0)	10.9	ND (1.0)	ND (1.0)	9.26	ND (10)
MW-20-70	12/13/2006	ND (2.0)	1.78	35.4	ND (1.0)	ND (1.0)	ND (1.0)	3120	ND (1.0)	ND (1.0)	ND (0.2)	23.6	ND (1.0)	12.2	ND (1.0)	ND (1.0)	8.89	ND (10)
MW-20-130	9/24/2004	ND (5.0)	ND (10)	40.3	ND (3.0)	ND (3.0)	ND (3.0)	7000	15.0	ND (5.0)	ND (0.2)	47.2	ND (5.0)	23.0	ND (3.0)	ND (15)	ND (3.0)	43.7
MW-20-130	1/27/2005	ND (5.0)	ND (10)	26.8	ND (3.0)	ND (3.0)	ND (3.0)	8410	ND (5.0)	ND (2.1)	ND (0.2)	44.4	ND (5.0)	13.0	ND (3.0)	ND (15)	11.6	24.6
MW-20-130	3/9/2005	ND (5.0)	ND (10)	21.5	ND (3.1)	ND (3.1)	ND (3.1)	8170	ND (5.0)	ND (2.1)	ND (0.2)	33.6	ND (5.0)	ND (10)	ND (3.1)	ND (15)	172	84.5 J
MW-20-130 FD	3/9/2005	ND (5.0)	ND (10)	20.0	ND (3.1)	ND (3.1)	ND (3.1)	7050	ND (5.0)	ND (2.1)	ND (0.2)	29.0	5.30	ND (10)	ND (3.1)	ND (15)	162	173 J
MW-20-130	6/15/2005	ND (2.0)	7.42	26.5	ND (1.0)	ND (1.0)	ND (1.0)	11300	1.62	ND (1.0)	ND (0.2)	57.6	ND (1.0)	10.7	ND (1.0)	ND (1.0)	4.13	31.9
MW-20-130	10/7/2005	ND (2.0)	6.58	ND (300)	ND (1.0)	ND (1.0)	ND (1.0)	10700	ND (5.0)	ND (1.0)	ND (0.2)	41.3	ND (21)	10.8	ND (1.0)	ND (1.0)	ND (3.0)	ND (20)
MW-20-130	12/16/2005	ND (3.0)	5.80	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	9340	ND (10)	ND (2.0)	ND (0.2)	32.6	ND (20)	18.4	ND (5.0)	ND (1.0)	10.1	445
MW-20-130	3/10/2006	ND (2.0)	6.68	24.9	ND (1.0)	ND (1.0)	ND (1.0)	10600	3.73	ND (1.0)	ND (0.2)	46.7	ND (1.0)	12.0	ND (1.0)	ND (1.0)	5.32	ND (10)
MW-20-130	5/5/2006	ND (2.0)	6.32	26.3	ND (1.0)	ND (1.0)	ND (1.0)	13700	ND (1.0)	ND (1.0)	ND (0.2)	47.7	ND (1.0)	11.8	ND (1.0)	ND (1.0)	3.91	14.7 J
MW-20-130	10/18/2006	ND (2.0)	6.20	26.8	ND (1.0)	ND (1.0)	ND (1.0)	16400	ND (1.0)	ND (1.0)	ND (0.2)	45.5	ND (1.0)	13.6	ND (1.0)	ND (1.0)	3.87	10.2
MW-20-130	12/13/2006	ND (2.0)	5.56	25.5	ND (1.0)	ND (1.0)	ND (1.0)	10500	ND (1.0)	ND (1.0)	ND (0.2)	44.5	ND (1.0)	13.9	ND (1.0)	ND (1.0)	3.42	ND (10)
MW-20-130 FD	12/13/2006	ND (2.0)	5.53	25.1	ND (1.0)	ND (1.0)	ND (1.0)	10700	ND (1.0)	ND (1.0)	ND (0.2)	44.0	ND (1.0)	13.6	ND (1.0)	ND (1.0)	3.40	ND (10)
MW-25	9/22/2004	ND (5.0)	ND (10)	40.7	ND (3.0)	ND (3.0)	ND (3.0)	1930	7.10	ND (5.0)	ND (0.2)	ND (5.0)	ND (5.0)	13.1	ND (3.0)	ND (15)	ND (3.0)	22.7
MW-25	3/9/2005	ND (5.0)	ND (10)	39.5	ND (3.1)	ND (3.1)	ND (3.1)	1700	ND (5.0)	ND (2.1)	ND (0.2)	ND (5.0)	ND (5.0)	ND (10)	ND (3.1)	ND (15)	73.3	94.6
MW-25	6/14/2005	ND (2.0)	1.81	45.5	ND (1.0)	ND (1.0)	ND (1.0)	1790	ND (1.0)	ND (1.0)	ND (0.2)	3.85	2.26	2.72	ND (1.0)	ND (1.0)	11.1	119 J
MW-25 FD	6/14/2005	ND (2.0)	1.93	48.9	ND (1.0)	ND (1.0)	ND (1.0)	1930	1.34	ND (1.0)	ND (0.2)	4.13	1.68	2.65	ND (1.0)	ND (1.0)	11.8	16.1 J
MW-25	10/4/2005	ND (2.0)	1.94	ND (300)	ND (1.0)	ND (1.0)	ND (1.0)	1470	ND (10)	ND (1.0)	ND (0.2)	3.49	ND (20)	2.38	ND (1.0)	ND (1.0)	6.00	ND (20)
MW-25 FD	10/4/2005	ND (2.0)	2.15	ND (300)	ND (1.0)	ND (1.0)	ND (1.0)	1480	ND (10)	ND (1.0)	ND (0.2)	3.53	ND (20)	2.35	ND (1.0)	ND (1.0)	6.60	ND (20)
MW-25	12/14/2005	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	1370	ND (10)	ND (2.0)	ND (0.2)	ND (5.0)	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	9.70	ND (20)
MW-25 FD	12/14/2005	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	1350	ND (10)	ND (2.0)	ND (0.2)	ND (5.0)	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	9.40	ND (20)
MW-25	3/9/2006	ND (2.0)	2.39	40.8	ND (1.0)	ND (1.0)	ND (1.0)	1430	ND (1.0)	ND (1.0)	ND (0.2)	3.34	1.58	2.38	ND (1.0)	ND (1.0)	11.8	ND (10)
MW-25	5/3/2006	ND (2.0)	2.12	42.0	ND (1.0)	ND (1.0)	ND (1.0)	1310	ND (1.0)	ND (1.0)	ND (0.2)	3.35	1.25	2.64	ND (1.0)	ND (1.0)	11.6	ND (10)
MW-25 FD	5/3/2006	ND (2.0)	2.07	43.2	ND (1.0) J	ND (1.0)	ND (1.0)	1310	ND (1.0)	ND (1.0)	ND (0.2)	3.39	1.36	2.57	ND (1.0)	ND (1.0)	12.0	ND (10)
MW-25	10/3/2006	ND (2.0)	2.08	39.6	ND (1.0)	ND (1.0)	ND (1.0)	1150	ND (1.0)	ND (1.0)	ND (0.2)	3.50	3.62	2.37	ND (1.0)	ND (1.0)	11.2	ND (10)
MW-34-55	9/22/2004	ND (5.0)	ND (10)	87.6	ND (3.0)	ND (3.0)	ND (3.0)	ND (1.0)	12.0	ND (5.0)	ND (0.2)	13.0	ND (5.0)	12.5	ND (3.0)	ND (15)	ND (3.0)	22.7
MW-34-55	12/15/2004	ND (5.0)	ND (10)	71.8	ND (3.1)	ND (3.1)	ND (3.1)	ND (1.0)	6.60	12.2	ND (0.2)	13.7	ND (5.0)	ND (10)	40.4	ND (15)	6.50	25.1
MW-34-55	3/10/2005	ND (5.0)	ND (10)	66.9	ND (3.1)	ND (3.1)	ND (3.1)	ND (1.0)	ND (5.0)	ND (2.1)	ND (0.2)	12.4	9.10	ND (10)	ND (3.1)	ND (15)	227	87.7
MW-34-55	10/5/2005	ND (2.0)	2.01	ND (300)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (0.2)	15.7	ND (20)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	22.7
MW-34-55	12/14/2005	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (1.0)	ND (10)	ND (2.0)	ND (0.2)	12.7	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	7.00	ND (20)
MW-34-55	3/8/2006	ND (2.0)	2.08	59.2	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	16.3	4.77	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)
MW-34-55	5/3/2006	ND (2.0)	2.43	46.5	ND (1.0) J	ND (1.0)	ND (0.2)	16.8	2.74	ND (1.0)	ND (1.0)	ND (1.0)	1.15	14.1				
MW-34-55	10/4/2006	ND (2.0)	4.83	18.6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	25.2	1.22	ND (1.0)	ND (1.0)	ND (1.0)	2.37	ND (10)
MW-34-80	9/23/2004	ND (5.0)	ND (10)	54.1	ND (3.0)	ND (3.0)	ND (3.0)	ND (1.0)	10.1	ND (5.0)	ND (0.2)	14.9	ND (5.0)	ND (10)	ND (3.0)	ND (15)	ND (3.0)	23.2
MW-34-80 FD	9/23/2004	ND (5.0)	ND (10)	52.8	ND (3.0)	ND (3.0)	ND (3.0)	ND (1.0)	10.6	ND (5.0)	ND (0.2)	14.4	ND (5.0)	ND (10)	ND (3.0)	ND (15)	ND (3.0)	22.0

TABLE 6
Title 22 Metal Results, September 2004 through December 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

	California MCL:	6	10 ^	1000	4	5	NE	50	1000 *	NE	2	NE	100	50	100*	2	NE	5000*
Well ID	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
MW-34-80	12/13/2004	ND (5.0)	ND (10)	42.0	ND (3.1)	ND (3.1)	ND (3.1)	ND (1.0)	ND (5.0)	ND (2.1)	ND (0.2)	14.7	8.60	ND (10)	ND (3.1)	ND (15)	15.3	29.7
MW-34-80	3/8/2005	ND (5.0)	ND (10)	51.8	ND (3.1)	ND (3.1)	ND (3.1)	ND (1.0)	ND (5.0)	ND (2.1)	ND (0.2)	13.3	15.5	ND (10)	ND (3.1)	ND (15)	238	41.7
MW-34-80	6/30/2005	ND (2.0)	2.09	46.4	ND (1.0)	ND (1.0)	1.39	ND (1.0)	2.25	ND (1.0)	ND (0.2)	11.1	2.23	ND (1.0)	ND (1.0)	ND (1.0)	2.74	37.0
MW-34-80	10/5/2005	ND (2.0)	2.06	ND (300)	ND (1.0)	ND (1.0)	1.23	ND (1.0)	ND (10)	ND (1.0)	ND (0.2)	10.8	ND (20)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (20)
MW-34-80	12/14/2005	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (1.0)	ND (10)	ND (2.0)	ND (0.2)	10.2	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	13.5	ND (20)
MW-34-80	3/9/2006	ND (2.0)	2.19	39.6	ND (1.0)	ND (1.0)	1.08	ND (1.0)	7.27	ND (1.0)	ND (0.2)	11.4	1.58	ND (1.0)	ND (1.0)	ND (1.0)	2.94	ND (10)
MW-34-80	5/3/2006	ND (2.0)	1.91	39.6	ND (1.0) J	ND (1.0)	1.34	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	12.2	1.25	ND (1.0)	ND (1.0)	ND (1.0)	2.44	31.0
MW-34-80	10/4/2006	ND (2.0)	1.68	33.3	ND (1.0)	ND (1.0)	1.22	ND (1.0)	1.10	ND (1.0)	ND (0.2)	13.0	1.66	ND (1.0)	ND (1.0)	ND (1.0)	2.34	ND (10)
MW-34-80	12/12/2006	ND (2.0)	1.39	30.4	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	13.0	1.00	ND (1.0)	ND (1.0)	ND (1.0)	1.60	ND (10)
MW-37D	9/24/2004	ND (5.0)	ND (10)	65.0	ND (3.0)	ND (3.0)	ND (3.0)	1220	8.50	ND (5.0)	ND (0.2)	47.3	ND (5.0)	ND (10)	ND (3.0)	ND (15)	ND (3.0)	17.2
MW-37D FI	D 9/24/2004	ND (5.0)	ND (10)	65.9	ND (3.0)	ND (3.0)	ND (3.0)	1160	9.60	ND (5.0)	ND (0.2)	46.3	ND (5.0)	10.0	ND (3.0)	ND (15)	ND (3.0)	24.8
MW-37D	12/14/2004	ND (5.0)	ND (10)	46.4	ND (3.1)	ND (3.1)	ND (3.1)	1490	ND (5.0)	ND (2.1)	ND (0.2)	43.3	ND (5.0)	ND (10)	ND (3.1)	ND (15)	31.4 J	33.0 J
MW-37D FI	D 12/14/2004	ND (5.0)	ND (10)	49.9	ND (3.1)	ND (3.1)	ND (3.1)	1440	ND (5.0)	ND (2.1)	ND (0.2)	44.6	8.30	ND (10)	ND (3.1)	ND (15)	20.5 J	91.8 J
MW-37D	3/11/2005	ND (5.0)	ND (10)	53.9	ND (3.1)	ND (3.1)	ND (3.1)	1540	ND (5.0)	ND (2.1)	ND (0.2)	34.1	9.20	ND (10)	ND (3.1)	ND (15)	326	38.7
MW-37D	6/15/2005	ND (2.0)	3.63	54.9	ND (1.0)	ND (1.0)	ND (1.0)	1420	ND (1.0)	ND (1.0)	ND (0.2)	51.8	25.4	3.10	ND (1.0)	ND (1.0)	4.00	11.0
MW-37D	10/4/2005	ND (2.0)	3.42	ND (300)	ND (1.0)	ND (1.0)	ND (1.0)	1970	ND (10)	ND (1.0)	ND (0.2)	45.5	ND (20)	3.24	ND (1.0)	ND (1.0)	6.00	ND (20)
MW-37D	12/14/2005	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	1610	ND (10)	ND (2.0)	ND (0.2)	36.6	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	14.5	ND (20)
MW-37D	3/13/2006	ND (2.0)	3.97	41.0	ND (1.0)	ND (1.0)	ND (1.0)	1860	2.12	ND (1.0)	ND (0.2)	34.0	ND (1.0)	3.32	ND (1.0)	ND (1.0)	7.17	ND (10)
MW-37D	5/3/2006	ND (2.0)	3.79	44.0	ND (1.0)	ND (1.0)	1.06	1750 J	ND (1.0)	ND (1.0)	ND (0.2)	47.5	ND (1.0)	3.66	ND (1.0)	ND (1.0)	6.25	ND (10)
MW-37D	10/13/2006	ND (2.0)	3.67	42.2	ND (1.0)	ND (1.0)	ND (1.0)	1160	ND (1.0)	ND (1.0)	ND (0.2)	48.3	ND (1.0)	3.00	ND (1.0)	ND (1.0)	6.08	ND (10)
MW-37D	12/14/2006	ND (2.0)	3.17	39.8	ND (1.0)	ND (1.0)	ND (1.0)	1130	ND (1.0)	ND (1.0)	ND (0.2)	44.3	ND (1.0)	2.86	ND (1.0)	ND (1.0)	6.14	26.6

NOTES:

ND not detected at listed reporting limit

FD field duplicate sample

J concentration or reporting limit estimated by laboratory or data validation

^ U.S. Environmental Protection Agency (USEPA) MCL as of January 23, 2006

NE not established

The USEPA MCL for arsenic has been lowered to 10 ug/L as of January 2006. The California MCL of 50 ug/L is currently under review as of the writing of this monitoring report. California Division of Drinking Water and Environmental Management is proceeding the regulatory and adoption process."

Title 22 metals are the metals listed in California Code of Regulations, Title 22, Section 66261.24(a)(2)(A)

The maximum contaminant levels (MCLs) listed, in micrograms per liter (µg/L), are the California primary drinking water standards, or California secondary MCLs, where noted * .

All results are dissolved metals concentrations in µg/L from field-filtered samples.

Metals analyzed by Methods SW6010B, SW6020A, and SW7470A.

Analytes detected above MCL are in bold.

Groundwater samples from MW-34-55 in June 2005 were not analyzed for Title 22 metals due to a chain of custody error.

Monitoring well MW-12 was sampled in April rather than March 2006 due to inaccessibility from drilling operations in March.

TABLE 7Manual Water Level Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Poir Elevation (feet AMSL) ¹	Monito	_	Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinit (feet AMSL)
Monitoring W	/ells						
MW-9	89	536.56	07-Mar-06	11:17 AM	81.00	0.20	455.54
			12-Oct-06	7:54 AM	80.05	0.20	456.48
MW-10	97	530.65	12-Dec-05	10:39 AM	75.09	0.21	455.51
			06-Mar-06	11:30 AM	75.28	0.21	455.32
			04-May-06	9:12 AM	74.36	0.18	456.23
			12-Oct-06	9:05 AM	74.35	0.20	456.24
			14-Dec-06	1:19 PM	75.10	0.20	455.49
MW-11	86	522.61	12-Dec-05	9:56 AM	67.30	0.15	455.25
			06-Mar-06	12:25 PM	67.34	0.15	455.21
			09-May-06	12:47 PM	66.31	0.16	456.24
			12-Oct-06	1:14 PM	66.37	0.16	456.18
MW-12	50	484.01	13-Dec-05	11:00 AM	29.09	0.23	454.87
			18-Apr-06	11:30 AM	28.76	0.19	455.20
			01-May-06	8:05 AM	28.46	0.19	455.50
			04-Oct-06	7:35 AM	28.46	0.19	455.50
			13-Dec-06	9:45 AM	29.45	0.19	454.51
MW-13	52	488.64	13-Dec-05	1:26 PM	33.10	0.13	455.48
			08-Mar-06	2:10 PM	32.78	0.13	455.80
			02-May-06	7:52 AM	32.38	0.13	456.20
			02-Oct-06	12:33 PM	32.74	0.13	455.84
MW-14	134	570.99	15-Dec-05	11:55 AM	115.58	0.10	455.35
			09-Mar-06	12:14 PM		0.10	455.77
			02-May-06	9:32 AM	114.41	0.10	456.52
			02-Oct-06	11:48 AM	114.58	0.10	456.35
MW-15	203	641.52	07-Mar-06	1:15 PM	185.35	0.10	456.11
			05-Oct-06	11:26 AM	184.51	0.10	456.95
MW-16	218	657.31	07-Mar-06	2:08 PM	200.80	0.09	456.45
			01-Nov-06	11:30 AM	200.05	0.10	457.20
MW-17	154	589.96	02-Oct-06	8:23 AM	132.68	0.12	457.21
MW-18	107	545.32	09-Mar-06	11:35 AM	89.06	0.09	456.20
			04-Oct-06	10:53 AM	88.41	0.09	456.85
MW-19	66	499.92	12-Dec-05	2:03 PM	45.97	0.13	453.89
	00	100.02	09-Mar-06	2:05 PM	44.97	0.13	454.89
			02-May-06	2:20 PM	44.19	0.13	455.67
			02-Oct-06	1:15 PM	44.75	0.14	455.11
			15-Dec-06	7:40 AM	45.80	0.14	454.06
MW-20-70	70	500.15	15-Dec-05	1:29 PM	47.29	0.20	452.80
- · ·	-		10-Mar-06	12:53 PM	46.53	0.20	453.56
			05-May-06	8:41 AM	45.60	0.24	454.50
			03-Oct-06	9:15 AM	46.30	0.15	453.78
			13-Dec-06	1:12 PM	47.12	0.15	452.96
MW-20-100	101	500.58	15-Dec-05	12:53 PM	48.13	0.25	452.33
			10-Mar-06	10:42 AM		0.25	454.19
			05-May-06	9:59 AM	46.40	0.23	454.05

TABLE 7Manual Water Level Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Poir Elevation (feet AMSL) ¹	nt Monito Date &		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring W	ells						
MW-20-100	101	500.58	03-Oct-06	8:15 AM	46.90	0.21	453.55
1000	101	000.00	13-Dec-06	11:16 AM		0.21	452.49
MW-20-130	132	500.66	16-Dec-05	8:38 AM	49.11	0.60	451.60
20 100	102	000.00	10-Mar-06	11:45 AM		0.56	452.75
			05-May-06	10:15 AM		0.66	453.70
			18-Oct-06	12:15 PM		0.78	452.70
			13-Dec-06	1:27 PM	48.62	0.78	452.15
MW-21	58	505.55	13-Dec-05	12:24 PM	50.65	0.75	454.91
= .		000.00	09-Mar-06	2:37 PM	50.51	0.70	455.05
			01-May-06	10:13 AM		0.83	455.43
			03-Oct-06	2:02 PM	49.80	0.83	455.77
			12-Dec-06	8:44 AM	51.12	0.83	454.45
MW-22	12	460.72	16-Dec-05	12:17 PM	6.93	2.20	453.86
		100.72	15-Mar-06	9:13 AM	6.45	2.20	454.35
			03-May-06	12:34 PM		2.20	455.19
			13-Oct-06	12:03 PM		2.12	454.59
MW-23	81	507.33	14-Dec-05	11:58 AM		1.16	454.82
WWV-23	01	307.33	08-Mar-06	1:38 PM	52.77	1.16	454.69
			01-May-06	9:31 AM	51.83	1.22	455.64
			04-Oct-06	6:36 AM	52.10	1.22	455.37
			12-Dec-06	7:47 AM	53.25	1.22	454.22
MW-24A	127	567.16	06-Mar-06	1:18 PM	111.24	0.22	455.88
10100 2 17 (127	007.10	03-Oct-06	12:15 PM		0.24	456.12
			14-Dec-06	12:21 AM		0.24	455.30
MW-24B	215	564.76	07-Mar-06	11:05 AM		0.83	455.40
WW Z-D	210	304.70	03-Oct-06	11:14 AM		0.96	456.35
			14-Dec-06	10:47 AM		0.96	455.42
MW-24BR	441	563.95	15-Dec-05	2:25 PM	108.20	0.93	456.41
WW-24DIX	441	303.93	16-Mar-06	9:00 AM	114.53	0.93	450.15
			09-May-06	2:16 PM	103.33	1.00	461.50
			01-Jun-06	7:20 AM	102.10	1.00	462.67
			01-Nov-06	7:50 AM	107.65	0.95	456.96
			14-Dec-06	8:17 AM	108.33	0.95	456.28
MW-25	107	542.90	14-Dec-05	1:07 PM	88.30	0.11	454.54
10100-25	107	342.30	09-Mar-06	12:52 PM		0.09	454.87
			03-May-06	1:28 PM	87.30	0.03	455.54
			03-Oct-06	7:24 AM	87.27	0.11	455.57
M\\/_26	70	502.22		1:16 PM		0.23	
MW-26	70	JU2.22	12-Dec-05 08-Mar-06	12:29 PM	47.85 47.65	0.23	454.32 454.52
			01-May-06	12.29 FM 10:15 AM		0.23	455.35
			03-Oct-06	2:07 PM	47.00	0.23	455.16
MMM 27 20	4.4	460 FG					
MW-27-20	14	460.56	14-Dec-05	2:12 PM	7.40 5.50	0.06	453.15 454.06
			06-Mar-06	10:19 AM		0.07	454.96 455.40
			01-May-06 14-Jun-06	2:09 PM 10:30 AM	5.15 4.11	0.05 0.05	455.40 456.44

TABLE 7Manual Water Level Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Po Elevation (feet AMSL	Monitoring		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)	
Monitoring V	Vells							
MW-27-20	14	460.56	03-Oct-06	7:30 AM	5.59	0.07	454.96	
MW-27-60	59	461.38	15-Dec-05	10:59 AM		0.87	452.79	
WW 27 00	00	401.00	07-Mar-06	10:33 AM		0.77	454.83	
			01-May-06	9:29 AM	5.81	0.80	455.74	
			03-Oct-06	8:44 AM	6.60	0.83	454.99	
MW-27-85	80	460.99	15-Dec-05	10:20 AM	8.58	1.20	452.89	
10100-27-03	00	400.99	12-Jan-06	1:48 PM	8.12	1.20	453.36	
			08-Feb-06	12:41 PM		1.20	453.91	
			06-Mar-06	11:12 AM		1.20	454.84	
			03-Apr-06	1:50 PM	6.95	1.10	454.51	
			01-May-06	12:51 PM		1.10	455.14	
			14-Jun-06	9:29 AM	5.08	1.10	456.38	
			12-Jul-06	5:50 AM	5.15	1.10	456.23	
			08-Aug-06	5:48 AM	6.65	1.10	454.78	
			06-Sep-06	10:30 AM		1.10	454.67	
			13-Oct-06	10:55 AM		1.35	453.98	
			16-Nov-06	9:18 AM	8.44	1.35	453.12	
			11-Dec-06	10:44 AM		1.35	454.91	
MW-28-25	21	466.85	16-Dec-05	10:00 AM		0.08	453.27	
10100-20-25	21	400.00	09-Mar-06	9:19 AM	11.65	0.00	455.19	
			05-May-06	9:07 AM	10.55	0.06	456.28	
			11-Oct-06	11:33 AM	12.39	0.07	454.44	
MW-28-90	98	467.51	16-Dec-05	9:15 AM	14.33	0.58	453.32	
10100-20-90	90	407.51	10-Dec-05	10:39 AM		0.58	453.58	
			09-Feb-06	10.39 AM 12:28 PM		0.58	453.75	
			06-Mar-06	2:02 PM	13.24	0.58	454.44	
			06-Mar-06	11:14 AM		0.41	455.54	
			05-May-06	8:33 AM	11.67	0.41	455.92	
			15-Jun-06	8:33 AM	11.18	0.41	456.42	
			13-Jul-06	7:15 AM	10.93	0.41	456.62	
			11-Aug-06	5:29 AM	11.53	0.41	456.07	
			08-Sep-06	7:34 AM	13.40	0.41	454.15	
			13-Oct-06	8:14 AM	12.82	0.57	454.87	
			14-Dec-06	8:07 AM	13.98	0.57	453.67	
MW-29	42	485.21	12-Dec-05	10:19 AM	31.23	0.32	453.97	
10100 20	12	100.21	13-Apr-06	9:47 AM	29.47	0.31	455.73	
			05-May-06	9:55 AM	29.21	0.31	455.99	
			13-Oct-06	7:10 AM	30.25	0.27	454.95	
MW-30-30	27	468.12		2:23 PM	14.73	3.00	453.61	
10100-30-30	21	400.12	15-Dec-05 13-Mar-06	2.23 PM 11:55 AM		3.00	454.08	
			02-May-06	8:56 AM	13.07	3.65	455.36	
			10-Oct-06	12:51 PM		3.65	454.32	
NAVA 20.50	50	400.04						
MW-30-50	53	468.81	16-Dec-05	11:47 AM		0.77	453.07 454.15	
			09-Mar-06	12:35 PM		0.67	454.15	
			02-May-06	8:05 AM	13.30	0.61	455.56	

TABLE 7Manual Water Level Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Poi Elevation (feet AMSL)	Monito	_	Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring W	/ells						
MW-30-50	53	468.81	11-Oct-06	7:17 AM	14.40	0.62	454.46
MW-31-60	64	496.81	13-Dec-05	2:15 PM	43.20	0.16	453.55
WW 31 00	04	450.01	15-Mar-06	2:52 PM	42.43	0.16	454.32
			01-May-06	11:13 AM		0.15	455.33
			05-Oct-06	2:20 PM	42.18	0.19	454.58
MW-31-135	135	498.11	14-Dec-05	8:26 AM	45.21	0.53	452.90
10100-31-133	133	430.11	15-Mar-06	9:43 AM	44.34	0.56	453.78
			08-May-06	9:02 AM	43.00	0.59	455.14
			05-Oct-06	1:10 PM	44.38	0.64	453.79
MW-32-20	20	461.51	16-Dec-05	2:59 PM	8.31	1.50	453.29
10100-32-20	20	401.51	10-Dec-05	10:42 AM		2.25	453.29 454.35
			04-May-06	11:39 AM		0.55	455.24
			02-Oct-06	11:56 AM		1.80	454.34
			11-Dec-06	1:51 PM	7.98	1.80	453.64
MM/ 22 25	0.7	404.00					
MW-32-35	37	461.63	16-Dec-05	2:16 PM	8.57	0.73	453.12
			10-Mar-06	11:08 AM		0.73	454.67
			04-May-06	10:37 AM		0.56	455.54 454.45
			02-Oct-06 11-Dec-06	12:55 PM 1:01 PM	7.31 7.58	1.01 1.01	454.45 454.17
MW-33-40	42	487.38	12-Dec-05	2:10 PM	33.80	0.37	453.57
			09-Mar-06	11:22 AM		0.70	454.79
			04-May-06	2:50 PM	31.90	0.70	455.49
			06-Oct-06 14-Dec-06	7:26 AM 2:23 PM	32.15 33.36	0.35 0.35	455.22 454.01
MW-33-90	88	487.55	13-Dec-05	12:09 PM		0.58	453.74
			08-Mar-06	9:45 AM	32.70	0.58	454.89
			03-May-06	2:30 PM	32.13	0.62	455.47
			06-Oct-06	7:06 AM	32.34	0.57	455.23
			15-Dec-06	7:57 AM	33.75	0.57	453.82
MW-33-150	155	487.77	12-Dec-05	1:33 PM	34.57	1.08	453.72
			10-Jan-06	12:10 PM		1.11	453.69
			07-Feb-06	11:50 AM		1.11	455.22
			08-Mar-06	8:50 AM	33.50	1.15	454.86
			06-Apr-06	1:06 PM	32.82	1.15	455.54
			03-May-06	1:20 PM	32.85	1.09	455.44
			16-Jun-06	5:35 AM	31.63	1.09	456.62
			13-Jul-06	8:39 AM	32.04	1.09	456.21
			11-Aug-06	6:23 AM	32.30	1.09	456.01 454.70
			08-Sep-06	5:46 AM	33.45	1.09 1.16	454.79 454.93
			06-Oct-06	11:58 AM		1.16 1.16	454.93 454.08
NAVA 00 0 : 0	225	407.07	13-Dec-06	1:50 PM	34.22		454.08
MW-33-210	223	487.25	12-Dec-05	11:29 AM		1.25	454.14
			10-Jan-06	1:10 PM	34.41	1.35	453.97
			07-Feb-06	10:40 AM		1.35	454.60 455.07
			06-Mar-06	12:25 PM	33.31	1.35	455.07

TABLE 7Manual Water Level Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Poin Elevation (feet AMSL) ¹	t Monito Date &		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring W	/ells						
MW-33-210	223	487.25	13-Apr-06	12:30 PM	32.68	1.34	455.69
			05-May-06	6:43 AM	31.93	1.34	456.44
			16-Jun-06	6:22 AM	31.64	1.34	456.68
			13-Jul-06	8:15 AM	31.78	1.34	456.54
			08-Aug-06	10:30 AM		1.34	455.76
			08-Sep-06	5:00 AM	33.07	1.34	455.25
			06-Oct-06	10:31 AM		1.34	455.31
			11-Dec-06	8:53 AM	33.40	1.34	454.91
MW-34-55	57		14-Dec-05	10:15 AM	7.84	0.55	453.19
			08-Mar-06	12:04 PM		0.45	454.45
			03-May-06	7:05 AM	4.75	0.55	456.31
			04-Oct-06	8:13 AM	6.01	0.55	455.05
MW-34-80	84		14-Dec-05	9:10 AM	7.83	0.73	453.58
WW-54-00	04		11-Jan-06	1:13 PM	7.89	0.73	453.65
			08-Feb-06	9:58 AM	7.43	0.93	454.12
			09-Mar-06	9:58 AM	6.63	0.95	454.84
			03-Mar-06	11:25 AM		0.75	454.35
			03-Apr-06	8:28 AM	5.15	0.75	454.33 456.32
			14-Jun-06	6:59 AM	4.57	0.75	456.90
			12-Jul-06	7:33 AM	5.27	0.75	456.14
				8:27 AM	5.88	0.75	455.53
			08-Aug-06 06-Sep-06	8:24 AM	6.65	0.75	454.75
			04-Oct-06	11:32 AM		0.75	453.72
			16-Nov-06	10:10 AM		0.95	453.72 453.02
			12-Dec-06	10:10 AM		0.95	454.49
MW-34-100	117		14-Dec-05	12:48 PM		1.01	453.25
10100-34-100	117		28-Dec-05	8:30 AM	8.78	1.01	452.72
			12-Jan-06	8:58 AM	7.66	1.14	453.96
			23-Jan-06	9:45 AM	7.65	1.14	453.99
			08-Feb-06	11:45 AM		1.14	453.84
			08-Heb-06 08-Mar-06	1:35 PM	7.43	1.05	454.17
			23-Mar-06	9:04 AM	7.43	1.05	454.08
			03-Apr-06	12:53 PM		1.05	454.12
			03-Apr-00	12:33 F M		1.05	455.20
			17-May-06	12:22 PM		1.05	455.23
			31-May-06	7:49 AM	5.03	1.05	456.55
			14-Jun-06	8:23 AM	5.09	1.05	456.50
			28-Jun-06	8:20 AM	5.40	1.05	456.16
			12-Jul-06	6:50 AM	5.53	1.05	455.94
			26-Jul-06	6:00 AM	5.31	1.05	456.22
			08-Aug-06	7:07 AM	6.05	1.05	455.46
			28-Aug-06	2:12 PM	7.80	1.05	453.65
			06-Sep-06	7:00 AM	6.65	1.05	454.81
			20-Sep-06	9:16 AM	7.39	1.30	454.28
			04-Oct-06	9.16 AM 8:50 AM	7.39 7.11	1.30	454.56
			18-Oct-06	12:15 PM	7.65	1.30	454.03

TABLE 7Manual Water Level Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Poil Elevation (feet AMSL)	Monito		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring W	ells						
MW-34-100	117	460.96	01-Nov-06	11:06 AM	7.65	1.30	454.04
			16-Nov-06	8:30 AM	8.75	1.30	452.96
			30-Nov-06	10:17 AM		1.30	452.47
			12-Dec-06	12:24 AM		1.30	454.13
			28-Dec-06	9:45 AM	8.50	1.30	453.26
MW-35-60	57	484.19	14-Dec-05	9:45 AM	30.47	0.44	453.71
WW 00 00	07	10 1.10	14-Mar-06	1:46 PM	29.22	0.41	454.96
			01-May-06	12:05 PM		0.44	455.93
			12-Oct-06	1:21 PM	29.60	0.42	454.58
M/M/ 25 125	159	483.57	14-Dec-05	10:26 AM		0.70	454.28
MW-35-135	159	403.37	10-Mar-06	10.26 AM 12:27 PM		0.70	454.26 454.47
			02-May-06	3:12 PM	28.14	0.59	456.14
			12-Oct-06	12:25 PM		0.76	455.28
NAVA 00 00		400.00					
MW-36-20	23	469.26	15-Dec-05	12:27 PM		0.71	452.71
			01-May-06	8:23 AM	13.77	1.16	455.54
			02-Oct-06	8:24 AM	14.68	1.21	454.62
MW-36-40	43	469.61	15-Dec-05	10:42 AM		0.64	452.65
			07-Mar-06	11:42 AM		0.83	454.35
			01-May-06	11:24 AM		1.05	455.39
			05-Oct-06	12:01 PM		0.84	454.24
MW-36-50	53	469.60	15-Dec-05	9:57 AM	17.01	0.44	452.59
			07-Mar-06	10:50 AM		0.60	454.51
			01-May-06	2:21 PM	14.85	0.50	454.77
			05-Oct-06	7:19 AM	14.76	0.51	454.86
MW-36-70	72	469.25	15-Dec-05	1:07 PM	16.64	0.53	452.65
			09-Feb-06	12:30 PM		0.58	453.53
			07-Mar-06	9:54 AM	14.75	0.58	454.57
			06-Apr-06	10:18 AM		0.58	455.54
			01-May-06	8:23 AM	13.65	0.58	455.66
			13-Jun-06	7:36 AM	13.21	0.58	456.10
			11-Jul-06	10:07 AM		0.58	455.39
			09-Aug-06	8:21 AM	14.02	0.58	455.31
			07-Sep-06	5:45 AM	14.25	0.58	455.05
			02-Oct-06	9:27 AM	14.75	0.37	454.47
			14-Dec-06	10:48 AM		0.37	453.22
MW-36-90	92	469.61	15-Dec-05	11:13 AM		0.98	452.47
			12-Jan-06	12:10 PM		0.98	452.78
			09-Feb-06	12:13 PM		0.98	453.00
			07-Mar-06	12:25 PM		0.98	453.71
			04-Apr-06	2:05 PM	14.53	0.90	455.36
			01-May-06	12:19 PM		0.90	454.35
			13-Jun-06	6:53 AM	14.22	0.90	455.65
			11-Jul-06	8:35 AM	15.50	0.90	454.36
			09-Aug-06	6:30 AM	15.00	0.90	454.90
			07-Sep-06	6:52 AM	15.01	0.90	454.85

TABLE 7Manual Water Level Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Poir Elevation (feet AMSL) ¹	Monito		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Wate Elevation Adjusted for Salinit (feet AMSL)
Monitoring W	/ells						
MW-36-90	92	469.61	02-Oct-06	12:00 PM	16.10	0.50	453.55
	02	100.01	14-Nov-06	10:04 AM		0.50	452.44
			14-Dec-06	9:30 AM	16.08	0.50	453.56
MW-36-100	110	469.64	13-Dec-05	2:02 PM	17.06	1.10	453.03
			12-Jan-06	12:56 PM		1.10	452.78
			08-Feb-06	1:12 PM	17.20	1.10	452.89
			13-Mar-06	2:05 PM	16.94	1.10	453.15
			05-Apr-06	11:01 AM		1.07	453.72
			02-May-06	3:00 PM	15.64	1.07	454.43
			15-Jun-06	9:28 AM	14.64	1.07	455.41
			13-Jul-06	4:55 AM	14.35	1.07	455.70
			09-Aug-06	5:39 AM	15.04	1.07	455.06
			08-Sep-06	8:20 AM	16.62	1.07	453.42
			11-Oct-06	9:53 AM	16.29	1.00	453.71
			14-Nov-06	12:45 PM		1.00	452.50
			11-Dec-06	11:30 AM		1.00	453.75
MM/ 27D	227	496 40					
MW-37D	227	486.19	14-Dec-05	1:40 PM	31.92	0.89	454.64
			13-Mar-06	10:40 AM		0.89	454.86
			03-May-06	2:40 PM	30.68	1.15	456.24
			13-Oct-06	9:19 AM	31.02	1.04	455.73
			14-Dec-06	2:09 PM	31.90	1.04	454.85
MW-37S	87	485.97	14-Dec-05	2:26 PM	31.83	0.25	454.00
			13-Mar-06	10:39 AM		0.25	454.33
			04-May-06	1:22 PM	30.38	0.30	455.47
			13-Oct-06	10:57 AM	38.20	0.27	447.65
MW-38D	191	525.31	10-Mar-06	8:40 AM	70.95	1.40	455.01
			12-Oct-06	10:40 AM	70.14	1.52	455.93
MW-38S	98	525.51	10-Mar-06	9:18 AM	70.70	0.24	454.74
			12-Oct-06	12:26 PM	69.79	0.24	455.65
MW-39-40	42	468.02	16-Dec-05	10:30 AM	15.33	0.38	452.67
	· -	.00.02	07-Mar-06	2:28 PM	13.94	0.34	454.06
			02-May-06	7:10 AM	12.36	0.41	455.65
			05-Oct-06	11:55 AM		0.52	454.05
			14-Dec-06	2:08 PM	14.65	0.52	453.38
MW-39-50	55	467.93	16-Dec-05	9:36 AM	15.33	0.85	452.79
14144-32-30	55	€5. 10 1.	12-Jan-06	9:57 AM	15.04	0.85	452.79 453.00
			08-Mar-06		13.74	0.85	
			02-May-06	9:50 AM 8:27 AM	13.74	0.85	454.30 455.41
			05-Oct-06	9:59 AM	13.80	0.90	454.20
MM/ 20 00	00	460.00					
MW-39-60	66	468.00	16-Dec-05	8:52 AM	15.51	0.90	452.65
			08-Mar-06	1:12 PM	14.31	0.80	453.82
			02-May-06	8:30 AM	12.95	1.01	455.26
			05-Oct-06	9:07 AM	14.00	0.88	454.16
MW-39-70	72	468.02	16-Dec-05	11:02 AM		0.85	452.38
			10-Feb-06	10:57 AM	15.20	0.66	452.91

TABLE 7Manual Water Level Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Poi Elevation (feet AMSL) ¹	Monito		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring We	ells						
MW-39-70	72	468.02	08-Mar-06	12:25 PM	14.59	0.66	453.52
1000 70		100.02	06-Apr-06	8:37 AM	13.40	0.90	454.81
			02-May-06	7:00 AM	13.20	0.90	455.02
			14-Jun-06	5:47 AM	12.35	0.90	455.87
			12-Jul-06	6:40 AM	13.08	0.90	455.12
			10-Aug-06	7:54 AM	13.53	0.90	454.69
			07-Sep-06	10:40 AM	13.23	0.90	454.96
			05-Oct-06	11:55 AM	14.50	0.72	453.63
			14-Dec-06	1:15 PM	14.35	0.72	453.77
MW-39-80	83	467.92	15-Dec-05	2:02 PM	15.74	1.03	452.46
10100-39-00	03	407.32	12-Jan-06	10:35 AM	15.79	1.03	452.41
			10-Feb-06	11:18 AM	15.18	1.03	453.02
			08-Mar-06	10:53 AM	14.48	1.03	453.73
			06-Apr-06	8:35 AM	13.40	1.03	454.82
			02-May-06	8:28 AM	13.33	1.03	454.88
			14-Jun-06	6:10 AM	12.35	1.03	455.88
			12-Jul-06	5:43 AM	12.99	1.03	455.20
			10-Aug-06	9:35 AM	13.73	1.03	454.50
			07-Sep-06	9:11 AM	13.03	1.03	455.16
			05-Oct-06	9:59 AM	13.94	0.95	454.22
			14-Nov-06	11:51 AM	15.52	0.95	452.64
			14-Dec-06	12:10 AM	14.37	0.95	453.78
MW-39-100	118	468.01	13-Dec-05	2:50 PM	15.66	1.20	452.89
1000	110	400.01	12-Jan-06	11:25 AM	16.01	1.30	452.62
			08-Feb-06	2:05 PM	15.52	1.30	453.12
			13-Mar-06	1:18 PM	15.70	1.30	452.93
			05-Apr-06	11:51 AM	14.40	1.20	454.17
			02-May-06	1:41 PM	14.16	1.20	454.42
			14-Jun-06	11:00 AM	12.83	1.20	455.76
			13-Jul-06	5:41 AM	13.03	1.20	455.50
			10-Aug-06	7:11 AM	13.69	1.20	454.89
			08-Sep-06	9:00 AM	14.92	1.20	453.60
			11-Oct-06	8:53 AM	14.25	1.30	454.39
			15-Nov-06	11:44 AM	15.74	1.30	452.89
			12-Dec-06	1:12 PM	15.15	1.30	453.44
MW-40D	266	566.08	13-Dec-05	9:36 AM	111.25	0.95	455.12
	200	000.00	08-Mar-06	11:31 AM	107.73	0.99	458.69
			02-May-06	7:41 AM	110.42	1.11	456.12
			05-Oct-06	9:05 AM	110.50	1.11	456.04
			13-Dec-06	8:12 AM	111.45	1.11	455.09
MW-40S	134	566.04	13-Dec-05	8:38 AM	110.86	0.12	455.10
	101	JUU.UT	08-Mar-06	9:54 AM	108.36	0.12	457.59
			03-May-06	9:50 AM	109.86	0.12	456.09
			05-Oct-06	10:05 AM	109.97	0.13	455.98
				10:34 AM	25.08	1.35	
MW-41D	313	479.42	16-Dec-05	1() 3/1 ANA	ノカロメ	7 45	455.84

TABLE 7Manual Water Level Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

MW-41M	Location	Well Depth (feet BMP)	Measuring Po Elevation (feet AMSL)	Monito	_	Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
MW-41M	Monitoring V							
MW-41M	MW-41D	313	479.42	05-May-06	7:24 AM	23.82	1.30	456.99
13-Mar-06				04-Oct-06	12:17 PM	24.24	1.36	456.67
MW-41S	MW-41M	192	479.83	16-Dec-05	11:44 AM	25.14	0.98	455.17
MW-41S 62				13-Mar-06	1:35 PM	24.66	0.90	455.55
MW-41S 62 480.07 16-Dec-05 12:30 PM 25.57 0.28 454.4 454.4 55.6 56.4 56.2 56.2 56.2 56.2 56.2 56.2 56.2 56.2				05-May-06	12:23 PM	23.70	1.12	456.77
MW-42-30 32 463.81 15-Dec-05 12:14 PM 9.63 0.98 454.2 0.25 455.2 455.2 05-May-06 1:39 PM 23.70 0.50 456.3 05-Oct-06 7:30 AM 24.28 0.29 455.7 07-Mar-06 12:14 PM 9.63 0.98 454.2 02-May-06 10:14 AM 8.64 0.70 455.2 03-Oct-06 10:54 AM 9.63 0.98 454.2 03-Oct-06 10:54 AM 9.63 0.98 454.2 03-Oct-06 10:54 AM 9.53 0.88 454.3 02-May-06 11:07 PM 9.78 0.92 454.2 02-May-06 11:07 PM 9.68 1.05 454.4 02-May-06 11:07 PM 9.78 0.92 454.2 02-May-06 11:07 PM 9.78 0.92 454.2 03-Oct-06 10:56 AM 10.43 1.05 453.6 03-Oct-06 12:20 PM 9.38 1.17 454.3 03-Oct-06 12:20 PM 9.38 1.17 454.3 03-Oct-06 12:20 PM 9.32 1.21 454.4 03-Oct-06 12:20 PM 9.32 1.21 453.3 03-Oct-06 12:20 PM 9.56 0.07 452.2 03-Oct-06				05-Oct-06	6:28 AM	24.08	0.97	456.21
MW-42-30 32	MW-41S	62	480.07	16-Dec-05	12:30 PM	25.57	0.28	454.43
MW-42-30 32				13-Mar-06	2:36 PM	24.72	0.25	455.27
MW-42-30 32 463.81 15-Dec-05 1:07 PM 11.28 1.04 452.6 07-Mar-06 12:14 PM 9.63 0.98 454.2 02-May-06 10:14 AM 8.64 0.70 455.2 03-Oct-06 10:54 AM 9.53 0.88 454.3 MW-42-55 56 463.87 15-Dec-05 12:43 PM 11.25 1.08 452.8 07-Mar-06 1:07 PM 9.78 0.92 454.2 02-May-06 11:07 AM 8.03 1.02 456.6 03-Oct-06 11:40 AM 9.68 1.05 454.4 14-Dec-06 10:56 AM 10.43 1.05 454.4 14-Dec-06 10:56 AM 10.43 1.05 454.4 14-Dec-06 10:56 AM 10.43 1.05 454.4 14-Dec-06 12:21 PM 10.77 1.04 452.9 MW-42-65 80 463.37 15-Dec-05 12:11 PM 10.77 1.04 452.9 MW-42-65 27 462.54 16-Dec-05 2:20 PM 9.32 1.21 453.4 <td></td> <td></td> <td></td> <td>05-May-06</td> <td>1:39 PM</td> <td>23.70</td> <td>0.50</td> <td>456.35</td>				05-May-06	1:39 PM	23.70	0.50	456.35
MW-42-55				05-Oct-06	7:30 AM	24.28	0.29	455.72
MW-42-55	MW-42-30	32	463.81	15-Dec-05	1:07 PM	11.28	1.04	452.62
MW-42-55				07-Mar-06	12:14 PM	9.63	0.98	454.27
MW-42-55 56 463.87 15-Dec-05 12:43 PM 11.25 1.08 452.8 07-Mar-06 1:07 PM 9.78 0.92 454.2 02-May-06 11:07 AM 8.03 1.02 456.0 14-Dec-06 11:40 AM 9.68 1.05 454.4 14-Dec-06 10:56 AM 10.43 1.05 453.6 MW-42-65 80 463.37 15-Dec-05 12:11 PM 10.77 1.04 452.9 MW-42-65 80 463.37 15-Dec-05 12:11 PM 10.77 1.04 452.9 MW-43-65 80 463.37 15-Dec-05 12:11 PM 10.77 1.04 452.9 MW-43-65 80 463.37 15-Dec-05 11:47 AM 8.42 1.17 455.3 MW-43-69 21 TP PM 9.56 0.07 452.9 453.7 MW-43-25 27 462.54 16-Dec-05 2:17 PM 9.56 0.07 452.9 MW-43-25 77 462				•	10:14 AM	8.64	0.70	455.20
MW-42-65				03-Oct-06	10:54 AM	9.53	0.88	454.35
MW-42-65 80 463.37 15-Dec-05 12:11 PM 10.77 1.04 452.5	MW-42-55	56	463.87	15-Dec-05	12:43 PM	11.25	1.08	452.83
MW-42-65				07-Mar-06	1:07 PM	9.78	0.92	454.26
MW-42-65 80 463.37 15-Dec-05 12:11 PM 10.77 1.04 452.9				02-May-06	11:07 AM	8.03	1.02	456.05
MW-42-65 80 463.37 15-Dec-05 12:11 PM 10.77 1.04 452.9 07-Mar-06 2:35 PM 9.38 1.17 454.3 02-May-06 11:47 AM 8.42 1.17 455.3 03-Oct-06 12:20 PM 9.32 1.21 454.4 45.37 MW-43-25 27 462.54 16-Dec-05 2:17 PM 9.56 0.07 452.9 10-Mar-06 8:34 AM 7.26 0.09 455.2 04-May-06 9:11 AM 6.36 0.09 456.1 02-Oct-06 9:23 AM 7.70 0.08 454.8 MW-43-75 77 462.71 16-Dec-05 2:07 PM 9.89 0.93 453.0 MW-43-75 77 462.71 16-Dec-05 2:07 PM 9.89 0.93 453.2 10-Feb-06 9:20 AM 9.32 0.96 455.3 10-Mar-06 9:16 AM 7.69 0.96 455.3 10-Mar-06 9:16 AM 7.69 0.96 455.3 02-Oct-06 7:45 AM 8.8					11:40 AM	9.68	1.05	454.40
MW-43-25 27 462.54 16-Dec-05 2:17 PM 9.56 0.07 455.2 04-May-06 9:11 AM 9.32 1.21 454.8 0.09 455.2 04-May-06 9:11 AM 9.32 1.21 454.8 0.09 455.2 04-May-06 9:11 AM 9.99 1.21 453.8 0.09 455.2 04-May-06 9:11 AM 6.36 0.09 455.2 04-May-06 9:11 AM 9.32 0.96 455.3 04-May-06 9:11 AM 9.32 0.96 455.2 04-May-06 9:11 AM 9.32 0.96 453.3 0.09 456.1 0-Feb-06 9:20 AM 7.70 0.08 454.8 0.09 455.2 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.				14-Dec-06	10:56 AM	10.43	1.05	453.62
MW-43-25 27 462.54 16-Dec-05 2:17 PM 9.56 0.07 452.9 MW-43-25 27 462.54 16-Dec-05 2:17 PM 9.56 0.09 455.2 04-May-06 9:11 AM 6.36 0.09 456.1 02-Oct-06 9:23 AM 7.70 0.08 454.8 MW-43-75 77 462.71 16-Dec-05 2:07 PM 9.89 0.93 453.0 11-Jan-06 11:00 AM 9.32 0.96 453.7 10-Feb-06 9:20 AM 8.65 0.96 454.8 10-Mar-06 9:16 AM 7.69 0.96 455.3 03-Apr-06 10:17 AM 8.13 0.89 454.9 04-May-06 7:45 AM 8.81 0.91 454.5 04-May-06 7:45 AM 8.81 0.91 454.5 04-May-06 7:45 AM 8.81 0.91 454.5 02-Oct-06 8:09 AM 8.39 0.91 454.5 02-Oct-06 8:09 AM 8.39 0.91 454.5 02-Oct-06 7:46 AM 8.81 0.91 454.5 02-Oct-06 9:07 AM 9.68 1.42 455.5 03-Apr-06 9:32 AM 8.30 1.27 455.5 03-Apr-06 9:32 AM 6.90 1.27 456.5 03-Apr-06 9:32	MW-42-65	80	463.37	15-Dec-05	12:11 PM	10.77	1.04	452.92
MW-43-25 27 462.54 16-Dec-05 2:17 PM 9.56 0.07 452.9 462.54 16-Dec-05 2:17 PM 9.56 0.07 452.9 10-Mar-06 8:34 AM 7.26 0.09 455.2 04-May-06 9:11 AM 6.36 0.09 456.1 02-Oct-06 9:23 AM 7.70 0.08 454.8 MW-43-75 77 462.71 16-Dec-05 2:07 PM 9.89 0.93 453.0 11-Jan-06 11:00 AM 9.32 0.96 453.7 10-Feb-06 9:20 AM 8.65 0.96 454.4 10-Mar-06 9:16 AM 7.69 0.96 455.3 03-Apr-06 10:17 AM 8.13 0.89 454.8 04-May-06 7:45 AM 6.45 0.89 456.5 02-Oct-06 7:46 AM 8.81 0.91 454.1 12-Dec-06 8:09 AM 8.39 0.91 454.5 MW-43-90 102 462.76 16-Dec-05 1:00 PM 10.05 1.20 453.2 11-Jan-06 9:07 AM 9.43 1.42 454.0 10-Feb-06 9:48 AM 8.05 1.42 455.5 03-Apr-06 9:32 AM 8.30 1.27 455.1 04-May-06 8:29 AM 8.30 1.27 455.5 04-May-06 8:29 AM 8.30 1.27 455.5 04-May-06 8:29 AM 6.90 1.27 455.5				07-Mar-06	2:35 PM	9.38	1.17	454.38
MW-43-25 27 462.54 16-Dec-05 2:17 PM 9.56 0.07 452.5 10-Mar-06 8:34 AM 7.26 0.09 455.2 04-May-06 9:11 AM 6.36 0.09 456.1 02-Oct-06 9:23 AM 7.70 0.08 454.8 11-Jan-06 11:00 AM 9.32 0.96 453.7 10-Heb-06 9:16 AM 7.69 0.96 455.3 03-Apr-06 10:17 AM 8.13 0.89 454.8 02-Oct-06 7:46 AM 8.81 0.91 454.1 12-Dec-06 8:09 AM 8.39 0.91 454.5 11-Jan-06 9:07 AM 9.43 1.42 454.5 10-Mar-06 9:48 AM 8.05 1.42 455.5 03-Apr-06 9:48 AM 8.05 1.42 455.5 03-Apr-06 9:32 AM 8.30 1.27 455.1 03-Apr-06 9:32 AM 8.30 1.27 455.1				02-May-06	11:47 AM	8.42		455.32
MW-43-25 27 462.54 16-Dec-05 2:17 PM 9.56 0.07 452.5 10-Mar-06 8:34 AM 7.26 0.09 455.2 04-May-06 9:11 AM 6.36 0.09 456.1 02-Oct-06 9:23 AM 7.70 0.08 454.8 MW-43-75 77 462.71 16-Dec-05 2:07 PM 9.89 0.93 453.0 11-Jan-06 11:00 AM 9.32 0.96 453.7 10-Feb-06 9:20 AM 8.65 0.96 454.4 10-Mar-06 9:16 AM 7.69 0.96 455.3 03-Apr-06 10:17 AM 8.13 0.89 454.5 02-Oct-06 7:45 AM 6.45 0.89 456.5 02-Oct-06 7:46 AM 8.81 0.91 454.1 12-Dec-06 8:09 AM 8.39 0.91 454.5 MW-43-90 102 462.76 16-Dec-05 1:00 PM 10.05 1.20 453.2 11-Jan-06 9:07 AM 9.43 1.42 454.0 10-Mar-06 9:48 AM 8.05 1.42 455.5 03-Apr-06 9:32 AM 8.30 1.27 455.1 04-May-06 8:29 AM 8.30 1.27 455.1 04-May-06 8:29 AM 8.30 1.27 455.1								454.45
MW-43-75 77 462.71 16-Dec-05 2:07 PM 9.89 0.93 453.0 11-Jan-06 9:16 AM 7.69 0.96 455.3 03-Apr-06 7:45 AM 8.81 0.91 454.1 12-Dec-06 8:09 AM 8.39 0.91 454.1 12-Dec-06 8:09 AM 8.39 0.91 454.5 10-Mar-06 9:07 AM 9.43 1.42 453.0 10-Mar-06 9:48 AM 8.05 1.42 453.8 10-Mar-06 9:48 AM 8.05 1.42 455.5 03-Apr-06 9:32 AM 8.30 1.27 455.1 04-May-06 8:29 AM 6.90 1.27 456.5				14-Dec-06	10:15 AM	9.99	1.21	453.75
MW-43-75 77 462.71 16-Dec-05 2:07 PM 9.89 0.93 453.0 11-Jan-06 11:00 AM 9.32 0.96 453.7 10-Feb-06 9:20 AM 8.65 0.96 454.8 10-Mar-06 9:16 AM 7.69 0.96 455.3 03-Apr-06 10:17 AM 8.13 0.89 456.5 02-Oct-06 7:46 AM 8.81 0.91 454.1 12-Dec-06 8:09 AM 8.39 0.91 454.5 11-Jan-06 9:07 AM 9.43 1.42 453.8 10-Feb-06 9:47 AM 9.68 1.42 453.8 10-Mar-06 9:48 AM 8.05 1.42 455.5 10-Mar-06 9:48 AM 8.05 1.42 455.5 10-Mar-06 9:48 AM 8.30 1.27 455.1 04-May-06 8:29 AM 8.30 1.27 455.1 04-May-06 8:29 AM 8.30 1.27 455.5 10-May-06 8:29 AM 8.30 1.27 455.5 10-May-06 8:29 AM 8.30 1.27 455.5 10-May-06 8:29 AM 6.90 1.27 455.5 1.50 1.20 1.27 455.5 10-May-06 8:29 AM 6.90 1.27 455.5 1.50 1.20 1.27 455.5 10-May-06 8:29 AM 6.90 1.27 455.5 1.50 1.20 1.27 455.5 1.20 1.20 1.27 455.5 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20	MW-43-25	27	462.54	16-Dec-05	2:17 PM	9.56	0.07	452.96
MW-43-75 77 462.71 16-Dec-05 2:07 PM 9.89 0.93 453.0 11-Jan-06 11:00 AM 9.32 0.96 453.7 10-Feb-06 9:20 AM 8.65 0.96 454.4 10-Mar-06 9:16 AM 7.69 0.96 455.3 03-Apr-06 10:17 AM 8.13 0.89 454.5 02-Oct-06 7:46 AM 8.81 0.91 454.1 12-Dec-06 8:09 AM 8.39 0.91 454.5 12-Dec-06 8:09 AM 8.39 0.91 454.5 11-Jan-06 9:07 AM 9.43 1.42 454.5 10-Feb-06 9:47 AM 9.68 1.42 453.8 10-Mar-06 9:48 AM 8.05 1.42 455.5 03-Apr-06 9:32 AM 8.30 1.27 455.1 04-May-06 8:29 AM 8.30 1.27 455.1 04-May-06 8:29 AM 6.90 1.27 456.5				10-Mar-06		7.26	0.09	455.26
MW-43-75 77 462.71 16-Dec-05 2:07 PM 9.89 0.93 453.0 11-Jan-06 11:00 AM 9.32 0.96 453.7 10-Feb-06 9:20 AM 8.65 0.96 454.4 10-Mar-06 9:16 AM 7.69 0.96 455.3 03-Apr-06 10:17 AM 8.13 0.89 454.5 02-Oct-06 7:45 AM 6.45 0.89 456.5 02-Oct-06 7:46 AM 8.81 0.91 454.1 12-Dec-06 8:09 AM 8.39 0.91 454.5 11-Jan-06 9:07 AM 9.43 1.42 454.0 10-Feb-06 9:47 AM 9.68 1.42 453.8 10-Mar-06 9:48 AM 8.05 1.42 455.5 03-Apr-06 9:32 AM 8.30 1.27 455.1 04-May-06 8:29 AM 6.90 1.27 456.5				04-May-06	9:11 AM	6.36		456.16
MW-43-90 102 462.76 16-Dec-05 1:00 PM 10.05 1.20 453.2 10-Mar-06 9:48 AM 9.68 1.42 454.6 10-Feb-06 9:48 AM 9.68 1.42 455.5 10-Mar-06 9:48 AM 8.05 1.42 455.5 10-Mar-06 9:48 AM 8.05 1.27 456.5 10-Mar-06 9:48 AM 8.05 1.27 456.5 10-Mar-06 9:32 AM 8.30 1.27 456.5 10-Mar-06 8:29 AM 6.90 1.27 456.5 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.				02-Oct-06	9:23 AM	7.70	0.08	454.81
10-Feb-06 9:20 AM 8.65 0.96 454.4 10-Mar-06 9:16 AM 7.69 0.96 455.3 03-Apr-06 10:17 AM 8.13 0.89 454.9 04-May-06 7:45 AM 6.45 0.89 456.5 02-Oct-06 7:46 AM 8.81 0.91 454.1 12-Dec-06 8:09 AM 8.39 0.91 454.5 MW-43-90 102 462.76 16-Dec-05 1:00 PM 10.05 1.20 453.2 11-Jan-06 9:07 AM 9.43 1.42 454.0 10-Feb-06 9:47 AM 9.68 1.42 453.8 10-Mar-06 9:48 AM 8.05 1.42 455.5 03-Apr-06 9:32 AM 8.30 1.27 455.1 04-May-06 8:29 AM 6.90 1.27 456.5	MW-43-75	77	462.71	16-Dec-05	2:07 PM	9.89	0.93	453.09
MW-43-90 102 462.76 16-Dec-05 1:00 PM 10.05 1.20 453.2 11-Jan-06 9:47 AM 9.68 1.42 454.5 10-Mar-06 9:48 AM 8.05 1.42 455.5 03-Apr-06 9:32 AM 8.30 1.27 456.5 104-May-06 8:29 AM 6.90 1.27 456.5 104-May-06 8:29 AM 6.90 1.27 456.5 1.20				11-Jan-06	11:00 AM	9.32	0.96	453.73
MW-43-90 102 462.76 16-Dec-05 1:00 PM 10.05 1.20 453.2 11-Jan-06 9:07 AM 9.43 1.42 454.5 10-Mar-06 9:48 AM 8.05 1.42 455.5 03-Apr-06 9:32 AM 8.30 1.27 456.5 104-May-06 8:29 AM 6.90 1.27 456.5 1.20								454.41
MW-43-90 102 462.76 16-Dec-05 1:00 PM 10.05 1.20 453.2 11-Jan-06 9:47 AM 9.68 1.42 454.0 10-Feb-06 9:47 AM 9.68 1.42 455.5 03-Apr-06 9:32 AM 8.30 1.27 456.5 104-May-06 8:29 AM 6.90 1.27 456.5								455.38
MW-43-90 102 462.76 16-Dec-05 1:00 PM 10.05 1.20 453.2 11-Jan-06 9:07 AM 9.43 1.42 454.0 10-Feb-06 9:47 AM 9.68 1.42 453.8 10-Mar-06 9:48 AM 8.30 1.27 455.5 03-Apr-06 9:32 AM 8.30 1.27 456.5 104-May-06 8:29 AM 6.90 1.27 456.5				-				454.90
MW-43-90 102 462.76 16-Dec-05 1:00 PM 10.05 1.20 453.2 11-Jan-06 9:07 AM 9.43 1.42 454.0 10-Feb-06 9:47 AM 9.68 1.42 453.8 10-Mar-06 9:48 AM 8.05 1.42 455.5 03-Apr-06 9:32 AM 8.30 1.27 455.1 04-May-06 8:29 AM 6.90 1.27 456.5				•				456.59
MW-43-90 102 462.76 16-Dec-05 1:00 PM 10.05 1.20 453.2 11-Jan-06 9:07 AM 9.43 1.42 454.0 10-Feb-06 9:47 AM 9.68 1.42 453.8 10-Mar-06 9:48 AM 8.05 1.42 455.5 03-Apr-06 9:32 AM 8.30 1.27 455.1 04-May-06 8:29 AM 6.90 1.27 456.5								454.19
11-Jan-06 9:07 AM 9.43 1.42 454.0 10-Feb-06 9:47 AM 9.68 1.42 453.8 10-Mar-06 9:48 AM 8.05 1.42 455.5 03-Apr-06 9:32 AM 8.30 1.27 455.1 04-May-06 8:29 AM 6.90 1.27 456.5				12-Dec-06				454.59
10-Feb-06 9:47 AM 9.68 1.42 453.8 10-Mar-06 9:48 AM 8.05 1.42 455.5 03-Apr-06 9:32 AM 8.30 1.27 455.1 04-May-06 8:29 AM 6.90 1.27 456.5	MW-43-90	102	462.76					453.24
10-Mar-06 9:48 AM 8.05 1.42 455.5 03-Apr-06 9:32 AM 8.30 1.27 455.1 04-May-06 8:29 AM 6.90 1.27 456.5								454.09
03-Apr-06 9:32 AM 8.30 1.27 455.1 04-May-06 8:29 AM 6.90 1.27 456.5								453.85
04-May-06 8:29 AM 6.90 1.27 456.5								455.50
·				-				455.15 456.57
UZ-OGI-UO 0.40 AIVI 0.22 1.3/ 400.2								
								455.24 454.77
	NA\A/ 44 70	70	474.00					453.21

TABLE 7Manual Water Level Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Poi Elevation (feet AMSL)	Monito		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring W	/ells						
MW-44-70	70	471.88	23-Mar-06	10:56 AM	17.80	0.48	454.11
10100-44-70	70	471.00	05-Apr-06	2:03 PM	16.58	0.48	455.33
			03-Apr-00 04-May-06	9:50 AM	16.33	0.48	455.58
			13-Jun-06	6:57 AM	15.60	0.48	456.30
			15-Jun-06	7:44 AM	15.55	0.48	456.35
		471.90	04-Oct-06	2:49 PM	17.95	0.65	454.05
			14-Dec-06	9:06 AM	18.32	0.65	453.67
MW-44-115	114	471.99	14-Mar-06	12:55 PM		0.80	452.85
10100		17 1.00	22-Mar-06	1:35 PM	18.82	0.80	453.40
			04-Apr-06	1:15 PM	16.89	0.80	455.36
			20-Apr-06	12:55 PM		0.80	454.96
			26-Apr-06	11:06 AM		0.80	456.06
			04-May-06	11:40 AM		0.80	454.90
			10-May-06	12:25 PM		0.80	454.90
			17-May-06	9:46 AM	16.74	0.80	455.48
			31-May-06	11:27 AM		0.80	454.99
			13-Jun-06	9:34 AM	16.69	0.80	455.58
			28-Jun-06	10:08 AM		0.80	455.57
			12-Jul-06	9:19 AM	17.00	0.80	455.19
			26-Jul-06	9:17 AM	16.90	0.80	455.38
			09-Aug-06	8:56 AM	17.30	0.80	454.97
			23-Aug-06	9:40 AM	17.68	0.80	454.59
			07-Sep-06	5:57 AM	17.51	0.80	454.68
			21-Sep-06	10:19 AM	17.94	1.02	454.40
		472.01	05-Oct-06	7:04 AM	17.72	1.02	454.71
			18-Oct-06	9:53 AM	18.30	1.02	454.12
			15-Nov-06	10:48 AM	19.29	1.02	453.13
			12-Dec-06	2:23 PM	18.63	1.02	453.74
MW-44-125	129	471.99	09-Mar-06	1:48 PM	19.10	0.59	453.03
			22-Mar-06	12:20 PM	18.20	0.59	453.92
			05-Apr-06	9:38 AM	16.29	0.59	455.85
			20-Apr-06	8:56 AM	16.80	0.59	455.32
			26-Apr-06	8:33 AM	15.75	0.59	456.38
			04-May-06	6:48 AM	16.39	0.59	455.74
			10-May-06	9:03 AM	16.61	0.59	455.49
			17-May-06	8:15 AM	16.15	0.59	455.91
			31-May-06	8:58 AM	16.53	0.59	455.59
			28-Jun-06	9:15 AM	16.25	0.59	455.89
			11-Jul-06	8:45 AM	16.97	0.59	455.05
			26-Jul-06	7:18 AM	16.38	0.59	455.75
			09-Aug-06	6:40 AM	16.73	0.59	455.40
			28-Aug-06	9:50 AM	17.70	0.59	454.37
			07-Sep-06	6:30 AM	17.41	0.59	454.61
			20-Sep-06	12:36 PM		0.96	453.78
		472.04	05-Oct-06	7:20 AM	17.38	0.96	455.07
			18-Oct-06	8:24 AM	17.84	0.96	454.66
			15-Nov-06	9:25 AM	18.95	0.96	453.55

TABLE 7Manual Water Level Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Poir Elevation (feet AMSL) ¹	Monito		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring We	ells						
MW-44-125	129	472.04	13-Dec-06	8:23 AM	18.43	0.96	453.95
MW-45-095a	97	470.16	24-Mar-06	8:48 AM	17.12	0.86	453.32
MW-45-095b	97	469.65	24-Mar-06	10:36 AM		0.86	452.01
MW-46-175	182	482.20	14-Mar-06 24-Mar-06	11:42 AM 8:50 AM	29.45 28.20	1.09 1.09	455.15 456.42
				8:55 AM	26.20 27.22	1.09	455.78
		400.40	07-Apr-06				
		482.16	04-May-06	1:18 PM	27.62	1.02	455.24
			18-May-06	12:19 PM		1.02	455.41
			31-May-06	12:43 PM		1.02	455.65
			15-Jun-06	6:29 AM	26.41	1.02	456.51
			30-Jun-06	12:48 PM		1.02	455.98
			12-Jul-06	10:15 AM		1.02	455.95
			27-Jul-06	7:00 AM	26.75	1.02	456.16
			09-Aug-06	10:31 AM		1.02	455.30
			25-Aug-06	12:10 PM		1.02	455.15
			07-Sep-06	9:30 AM	27.97	1.02	454.75
			21-Sep-06	8:35 AM	27.70	1.32	455.36
			05-Oct-06	11:40 AM		1.32	454.89
			18-Oct-06	10:50 AM	28.40	1.32	454.81
			15-Nov-06	1:23 PM	29.34	1.32	453.85
			13-Dec-06	12:46 AM	28.85	1.32	454.22
MW-46-205	225	482.25	14-Mar-06	10:25 AM	29.94	1.33	455.13
			24-Mar-06	10:23 AM	28.58	1.33	456.49
			07-Apr-06	8:35 AM	23.40	1.33	460.24
		482.23	04-May-06	2:45 PM	27.95	1.25	455.53
			15-Jun-06	5:30 AM	26.72	1.25	456.79
			13-Jul-06	6:24 AM	26.93	1.25	456.39
			10-Aug-06	8:14 AM	27.62	1.25	455.87
			07-Sep-06	10:39 AM		1.25	455.19
			05-Oct-06	1:25 PM	28.62	1.48	455.19
			13-Dec-06	11:04 AM	29.08	1.48	454.54
MW-47-55	55	483.87	23-Mar-06	1:30 PM	29.12	0.26	454.69
10100 47 55	33	400.07	16-May-06	9:20 AM	27.45	0.26	456.36
			10-May-00	11:50 AM		0.24	454.92
			14-Dec-06	11:59 AM		0.24	454.22
MW-47-115	115	484.06	23-Mar-06	12:31 PM		0.94	454.11
			16-May-06	9:20 AM	27.94	0.94	456.33
			10-Oct-06	10:45 AM		0.99	455.10
			14-Dec-06	12:39 AM	29.98	0.99	454.34
MW-48	138	486.22	05-Jun-06	10:03 AM	29.10	0.95	457.26
			06-Oct-06	11:30 AM	59.39	1.09	427.01
			13-Dec-06	3:07 PM	31.85	1.09	454.65
MW-49-135	137	484.02	25-Apr-06	10:55 AM		0.70	455.79
			18-May-06	8:50 AM	27.93	1.11	456.59
			. Jay 00	3.33 / 11/1	200		100.00

TABLE 7Manual Water Level Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Poin Elevation (feet AMSL) ¹	t Monito Date &	_	Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring W	ells						
MW-49-135	137	484.02	15-Dec-06	10:10 AM	29.98	1.05	454.50
MW-49-275	275	483.95	25-Apr-06	1:30 PM	29.37	1.03	455.37
10100-43-273	213	+00.90	18-May-06	10:05 AM		1.61	456.40
			12-Oct-06	8:10 AM	30.24	1.70	455.90
			15-Dec-06	9:59 AM	31.01	1.70	454.87
MW-49-365	367	484.01	26-Apr-06	12:45 PM		2.60	458.00
	00.	10 1.0 1	16-May-06	9:50 AM	30.86	2.59	458.33
			12-Oct-06	8:06 AM	31.83	2.64	457.28
			15-Dec-06	11:51 AM	32.61	2.64	456.21
MW-50-095	96	496.55	09-May-06	7:14 AM	40.50	0.35	455.92
			24-May-06	1:49 PM	39.65	0.35	456.81
			10-Oct-06	9:07 AM	41.52	0.36	454.95
			12-Dec-06	12:01 AM	42.25	0.36	454.21
MW-50-200	205	496.45	09-May-06	7:16 AM	41.02	1.48	456.27
			24-May-06	1:08 PM	41.47	1.48	456.03
		496.48	10-Oct-06	7:32 AM	42.02	1.48	455.53
			12-Dec-06	11:58 AM	42.75	1.48	454.67
MW-51	113	501.56	30-May-06	10:48 AM	44.98	0.79	456.61
			06-Oct-06	6:30 AM	46.58	0.64	455.02
			12-Dec-06	9:16 AM	47.58	0.64	453.96
OW-3D	274	558.63	09-Mar-06	8:30 AM	102.41	0.45	456.00
			06-Oct-06	9:30 AM	101.74	0.47	456.69
OW-3M	202	558.90	09-Mar-06	9:17 AM	102.61	0.33	456.09
			12-Oct-06	9:28 AM	102.08	0.35	456.62
OW-3S	118	558.58	09-Mar-06	9:55 AM	102.33	0.11	456.20
			12-Oct-06	11:20 AM	101.65	0.11	456.87
PE-1	97	469.65	13-Dec-05	8:50 AM	16.42	0.75	453.43
TW-4	255	484.11	18-May-06	8:49 AM	28.71	1.12	456.02
			05-Jun-06	11:30 AM	28.67	1.12	455.95
			09-Oct-06	6:59 AM	29.42	1.12	455.30
TW-5	153	496.30	10-May-06	11:12 AM	41.20	0.70	455.08
			01-Jun-06	9:14 AM	40.43	0.70	455.94
			09-Oct-06	11:36 AM	41.32	0.70	454.96
Site Wide Wat	ter Levels						
MW-1	217	661.76	20-Dec-05	1:13 PM	206.00	0.04	455.72
1V1 V V - 1	211	001.70	14-Jun-06	8:35 AM	205.16	0.04	456.56
			19-Oct-06	10:29 AM		0.04	455.20
			18-Dec-06	12:32 PM	205.90	0.04	455.82
MW-3	205	650.51	20-Dec-05	1:35 PM	195.46	0.09	455.02
14144 0	200	000.01	08-Mar-06	8:19 AM	193.40	0.09	456.67
MW-4	176	625.73	20-Dec-05	1:23 PM	170.05	0.07	455.66
IVI V V - 41	170	020.73	08-Mar-06	8:29 AM	170.05	0.07	455.66
			JU-iviai-UU	8:51 AM	170.03	0.07	+55.00

TABLE 7Manual Water Level Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Poi Elevation (feet AMSL)	Monito		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Site Wide Wa	ater Levels						
MW-4	176	625.73	19-Oct-06	10:47 AM	169.36	0.07	456.35
		0=00	18-Dec-06	12:45 PM	170.00	0.07	455.71
MW-5	186	635.69	20-Dec-05	1:30 PM	180.02	0.09	455.65
			08-Mar-06	8:23 AM	179.68	0.09	455.99
			14-Jun-06	8:41 AM	178.41	0.09	457.25
			19-Oct-06	10:58 AM	178.98	0.09	456.69
			18-Dec-06	12:51 PM	179.60	0.09	456.07
MW-6	195	642.84	20-Dec-05	1:17 PM	186.78	0.04	456.03
			08-Mar-06	8:36 AM	186.74	0.04	456.07
			14-Jun-06	8:56 AM	185.54	0.04	457.26
			19-Oct-06	10:36 AM	186.01	0.06	456.80
MW-7	185	631.91	20-Dec-05	1:21 PM	175.96	0.06	455.92
			08-Mar-06	8:33 AM	176.48	0.07	455.40
			14-Jun-06	8:47 AM	175.20	0.07	456.67
			19-Oct-06	10:43 AM		0.07	455.94
			18-Dec-06	12:40 PM	176.26	0.07	455.62
MW-8	180	627.54	20-Dec-05	1:26 PM	171.50	0.07	456.01
-			08-Mar-06	8:26 AM	171.37	0.07	456.14
			14-Jun-06	8:46 AM	170.10	0.07	457.40
			19-Oct-06	10:54 AM	170.87	0.07	456.64
			18-Dec-06	12:48 PM	171.15	0.07	456.36
MW-9	89	536.56	20-Dec-05	12:55 PM	80.92	0.20	455.62
			07-Mar-06	8:06 AM	81.01	0.20	455.53
			14-Jun-06	5:20 AM	79.61	0.20	456.92
			19-Oct-06	12:25 PM	79.97	0.20	456.56
			18-Dec-06	1:50 PM	80.82	0.20	455.72
MW-10	97	530.65	20-Dec-05	12:53 PM	75.35	0.21	455.25
			07-Mar-06	8:01 AM	75.29	0.18	455.30
			14-Jun-06	5:16 AM	73.90	0.18	456.69
			19-Oct-06	12:15 PM	74.37	0.20	456.22
			18-Dec-06	1:53 PM	75.14	0.20	455.45
MW-11	86	522.61	20-Dec-05	1:00 PM	67.00	0.15	455.55
			07-Mar-06	8:13 AM	67.33	0.16	455.23
			14-Jun-06	5:08 AM	65.90	0.16	456.65
			19-Oct-06	12:35 PM	66.83	0.16	455.72
			18-Dec-06	1:59 PM	67.33	0.16	455.22
MW-12	50	484.01	20-Dec-05	2:45 PM	28.13	0.23	455.83
			14-Jun-06	5:42 AM	27.92	0.19	456.03
			19-Oct-06	11:56 AM	28.57	0.19	455.39
			18-Dec-06	12:25 PM	29.40	0.19	454.56
MW-13	52	488.64	20-Dec-05	2:04 PM	32.38	0.13	456.20
			08-Mar-06	8:45 AM	33.35	0.13	455.23
			14-Jun-06	6:04 AM	32.03	0.13	456.55
			19-Oct-06	9:25 AM	33.05	0.13	455.53
			18-Dec-06	2:15 PM	32.70	0.13	455.88

TABLE 7Manual Water Level Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Poin Elevation (feet AMSL) ¹	t Monito Date &	_	Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Site Wide Wa	ater Levels						
MW-14	134	570.99	20-Dec-05	2:01 PM	115.82	0.10	455.11
			08-Mar-06	8:28 AM	115.33	0.10	455.60
			14-Jun-06	6:23 AM	114.00	0.10	456.92
			19-Oct-06	9:38 AM	114.85	0.10	456.08
			18-Dec-06	2:20 PM	115.53	0.10	455.40
MW-15	203	641.52	20-Dec-05	1:06 PM	186.20	0.10	455.26
			08-Mar-06	8:45 AM	185.52	0.10	455.94
			14-Jun-06	8:03 AM	184.18	0.10	457.27
			19-Oct-06	11:20 AM	184.62	0.10	456.84
			18-Dec-06	1:02 PM	185.32	0.10	456.14
MW-16	218	657.31	20-Dec-05	1:42 PM	201.98	0.09	455.27
			08-Mar-06	8:52 AM	200.98	0.10	456.27
			14-Jun-06	7:53 AM	199.94	0.10	457.31
			19-Oct-06	10:22 AM		0.10	457.19
			18-Dec-06	1:09 PM	200.40	0.10	456.85
MW-17	154	589.96	14-Jun-06	6:45 AM	132.49	0.12	457.40
			19-Oct-06	2:15 PM	132.60	0.12	457.29
			18-Dec-06	12:50 PM		0.12	456.64
MW-18	107		20-Dec-05	1:52 PM	89.60	0.09	455.66
10100	107		08-Mar-06	7:59 AM	89.33	0.09	455.93
			14-Jun-06	6:38 AM	88.03	0.09	457.23
			19-Oct-06	9:59 AM	88.66	0.09	456.60
			18-Dec-06	1:24 PM	89.26	0.09	456.00
MW-19	66	499.92	20-Dec-05	2:18 PM	45.65	0.13	454.21
			08-Mar-06	8:59 AM	45.16	0.13	454.70
			14-Jun-06	6:02 AM	43.64	0.13	456.24
			19-Oct-06	9:10 AM	46.34	0.14	453.53
			18-Dec-06	1:12 PM	46.00	0.14	453.86
MW-20-70	70	500.15	20-Dec-05	2:31 PM	45.70	0.20	454.39
0 . 0	. •	0000	13-Jun-06	9:00 AM	44.92	0.24	455.17
			19-Oct-06	11:47 AM		0.15	453.61
			18-Dec-06	1:48 PM	47.51	0.15	452.57
MW-21	58	505.55	20-Dec-05	2:41 PM	49.51	0.75	456.05
2.	00		08-Mar-06	9:21 AM	50.01	0.83	455.56
			14-Jun-06	5:45 AM	49.61	0.83	455.96
			19-Oct-06	1:50 PM	50.22	0.83	455.35
			18-Dec-06	2:10 PM	54.71	0.83	450.85
MW-24A	127	567.16	20-Dec-05	12:45 PM	112.09	0.22	455.03
= 1/1			14-Jun-06	5:00 AM	110.51	0.23	456.61
			18-Dec-06	1:45 PM	111.89	0.24	455.23
MW-25	107		20-Dec-05	2:15 PM	86.50	0.11	456.34
14.44 20	107		08-Mar-06	8:53 AM	88.07	0.11	454.77
			14-Jun-06	6:07 AM	86.71	0.11	456.13
			19-Oct-06	9:18 AM	87.62	0.11	455.22
			18-Dec-06	1:21 PM	88.93	0.11	453.91

TABLE 7Manual Water Level Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Poir Elevation (feet AMSL) ¹	Monito		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Site Wide Wa	iter Levels						
MW-26	70	502.22	08-Mar-06	8:16 AM	47.72	0.23	454.45
20	. 0	002.22	14-Jun-06	5:48 AM	46.33	0.23	455.83
			19-Oct-06	1:45 PM	47.15	0.21	455.01
			18-Dec-06	1:57 PM	48.01	0.21	454.15
MW-31-60	64	496.81	20-Dec-05	2:22 PM	45.86	0.16	450.90
			08-Mar-06	9:10 AM	42.31	0.15	454.44
			14-Jun-06	5:50 AM	40.74	0.15	456.01
			19-Oct-06	11:41 AM		0.19	454.53
			18-Dec-06	1:05 PM	43.92	0.19	452.84
MW-35-60	57	484.19	20-Dec-05	2:26 PM	31.24	0.44	452.94
			08-Mar-06	9:05 AM	28.84	0.44	455.34
			14-Jun-06	5:52 AM	27.23	0.44	456.95
			19-Oct-06	11:33 AM		0.42	454.99
			18-Dec-06	12:55 PM		0.42	453.56
MW-38S	98	525.51	20-Dec-05	12:50 PM	70.90	0.24	454.54
			07-Mar-06	8:10 AM	70.84	0.24	454.60
			14-Jun-06	5:12 AM	69.43	0.24	456.01
			19-Oct-06	12:12 PM		0.24	455.48
			18-Dec-06	1:57 PM	70.75	0.24	454.69
MW-40D	266	566.08	08-Mar-06	9:03 AM	107.73	1.11	458.82
MW-40S	134	566.04	20-Dec-05	3:00 PM	111.02	0.12	454.94
WW 400	10-1	000.04	08-Mar-06	9:03 AM	108.36	0.12	457.59
			14-Jun-06	6:59 AM	109.43	0.13	456.52
			18-Dec-06	12:40 PM		0.13	455.08
MW-41S	62	480.07	20-Dec-05	2:10 PM	25.42	0.28	454.58
WW 410	02	400.07	08-Mar-06	8:37 AM	24.75	0.50	455.31
			14-Jun-06	6:18 AM	23.34	0.50	456.71
			19-Oct-06	9:32 AM	28.50	0.29	451.51
			18-Dec-06	1:36 PM	25.42	0.29	454.58
OW-1S	114	550.15	20-Dec-05	1:54 PM	94.82	0.14	455.27
011 10		000.10	08-Mar-06	8:17 AM	94.28	0.14	455.83
			14-Jun-06	6:30 AM	92.85	0.16	457.23
			19-Oct-06	9:54 AM	93.78	0.15	456.31
			18-Dec-06	1:28 PM	94.40	0.15	455.69
OW-2S	121	548.75	29-Dec-05	1:56 PM	93.50	0.13	455.17
· · · - ·		0.00	08-Mar-06	8:15 AM	92.96	0.12	455.71
			14-Jun-06	6:31 AM	91.55	0.13	457.11
			19-Oct-06	9:49 AM	92.45	0.11	456.21
			18-Dec-06	1:31 PM	93.10	0.11	455.56
OW-3S	118	558.58	29-Dec-05	1:49 PM	102.88	0.13	455.65
			08-Mar-06	8:07 AM	102.53	0.11	456.00
			14-Jun-06	6:41 AM	101.18	0.11	457.34
			19-Oct-06	10:06 AM		0.11	456.65
			18-Dec-06	1:18 PM	102.51	0.11	456.01
OW-5S	110	551.75	29-Dec-05	1:58 PM	96.24	0.11	455.45

TABLE 7
Manual Water Level Measurements, December 2005 through December 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Poir Elevation (feet AMSL) ¹	nt Monito Date &	•	Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Site Wide Wa	ater Levels						
OW-5S	110	551.75	08-Mar-06	8:20 AM	95.78	0.11	455.91
			14-Jun-06	6:33 AM	94.49	0.13	457.20
			19-Oct-06	9:44 AM	95.23	0.11	456.46
			18-Dec-06	1:34 PM	95.86	0.11	455.84
TW-2S	102	499.05	29-Dec-05	2:54 PM	41.40	0.21	457.54
			14-Jun-06	8:30 AM	38.88	0.28	460.08
			19-Oct-06	1:35 PM	46.36	0.16	452.56
			18-Dec-06	2:30 PM	34.00	0.16	464.89
Surface Water	er Stations						
I-3		460.30	11-Jan-06	12:10 PM	6.85	0.00	453.45
			06-Mar-06	9:15 AM	5.21	0.00	455.09
			01-May-06	8:19 AM	4.07 T	0.00	456.23 T
			06-Sep-06	12:00 PM	6.18	0.00	454.12
			04-Oct-06	1:28 PM	6.58	0.00	453.72
RRB		476.63	06-Mar-06	1:40 PM	21.90	0.00	454.73
			03-May-06	6:40 AM	19.60	0.00	457.03
			06-Sep-06	1:15 PM	22.58	0.00	454.05
			04-Oct-06	1:00 PM	22.73	0.00	453.90

NOTES:

BGS below ground surface
AMSL above mean sea level
BMP below well measure point
(---) data not collected or available.

T Results from transducers presented to fill water level data gaps

Well depths rounded off to whole foot.

Salinity used to adjust water level to freshwater equivalent. Salinity values have been averaged in accordance with the Performance Monitoring Program.

¹ Measuring Point Elevations were re-surveyed in Febuary 2004.

TABLE 8Field Water Quality Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pН	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Well	s	. ,		-		
MW-9	07-Mar-06	3,180	28.01	6.96	227	6.63
10100 5	12-Oct-06	3,490	28.69	7.24	166	11.39
MW-10	12-Dec-05	2,470	28.20	7.46	165	5.94
10100-10	06-Mar-06	2,720	27.03	7.40 7.18	227	4.90
	04-May-06	4,500	29.01	7.18	146	4.98
	12-Oct-06	3,090	28.61	7.43	113	7.59
	14-Dec-06	2,900	29.43	7. 4 3 7.57	122	5.67
B 40 4 4 4						
MW-11	12-Dec-05	2,460	27.80	7.16	181	8.10
	06-Mar-06	2,600	28.66	7.26	235	6.98
	09-May-06	3,530	32.20	7.35	116	7.69
	12-Oct-06	2,930	29.66	7.27	90	9.58
MW-12	13-Dec-05	3,260	27.74	9.49	97	6.99
	18-Apr-06	3,460	28.60		91	7.28
	01-May-06	3,840	28.10	8.05		
	04-Oct-06		29.26	8.40	128	5.22
	13-Dec-06	4,660	27.53	8.24	155	6.20
MW-13	13-Dec-05	2,000	28.05	8.43	76	6.73
	08-Mar-06		28.67	7.45	163	6.90
	02-May-06	1,990	28.70	7.18	80	4.17
	02-Oct-06	2,020	28.02	7.23	44	
MW-14	15-Dec-05	1,640	27.60	7.74	106	7.54
	09-Mar-06	1,990	28.63	7.43	183	7.58
	02-May-06	1,610	29.20	7.36	49	3.92
	02-Oct-06	1,580	28.55	7.29	15	
MW-15	07-Mar-06	2,590	29.84	7.53	81	7.73
	05-Oct-06	2,110	29.69	7.50	16	8.93
MW-16	07-Mar-06	1,360	29.26	7.80	62	7.44
	01-Nov-06	1,640	32.89	7.72	52	5.34
MW-17	09-Mar-06	2,440	30.94	7.44	133	6.52
10100 17	02-Oct-06	1,870	30.12	7.26	79	
M/M/ 10						0.00
MW-18	09-Mar-06 04-Oct-06	1,860 1,820	28.92 30.81	7.36 7.69	152 30	8.08 7.72
MW-19	12-Dec-05	2,140	26.90	7.51	153	7.68
	09-Mar-06	3,850	28.42	7.33	227	7.43
	02-May-06	2,450	29.00	7.33	38	3.30
	02-Oct-06	2,450	28.59	7.26	44	
	15-Dec-06	2,360	28.20	7.53	76	6.64
MW-20-70	15-Dec-05	3,210	27.60	7.59	149	7.97
	10-Mar-06	5,830	28.01	7.49	228	7.32
	05-May-06	3,050	29.32	7.74	97	7.21
	03-Oct-06	3,460	28.69	7.48	117	7.47
	13-Dec-06	2,890	29.10	7.45	203	7.93
MW-20-100	15-Dec-05	3,980	28.00	7.62	140	3.03

TABLE 8Field Water Quality Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	рН	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Well	s					
MW-20-100	10-Mar-06	4,360	28.46	7.33	198	3.77
	05-May-06	3,760	29.80	7.72	98	5.20
	03-Oct-06	4,340	29.09	7.42	106	3.46
	13-Dec-06	5,200	29.11	7.36	188	2.19
MW-20-130	16-Dec-05	11,700	27.35	7.99	123	3.32
	10-Mar-06	14,500	28.67	7.48	213	3.49
	05-May-06	12,400	30.76	7.74	97	2.21
	18-Oct-06	19,500	30.41	7.91	78	2.68
	13-Dec-06		30.09	7.36	181	0.80
MW-21	14-Dec-05	12,100	26.22	7.94	-90	5.35
	09-Mar-06	15,100	26.71	6.81		4.20
	02-May-06	11,500	30.20	6.94	-77	
	03-Oct-06	15,900	28.50	6.91	-67	6.90
	13-Dec-06	13,000	19.80	6.98	-68	1.22
MW-22	16-Dec-05	31,200	24.64	6.65	-90	2.31
	15-Mar-06	34,800	19.89	6.12		8.54
	03-May-06	34,200	23.52	7.05	-88	4.14
	13-Oct-06	42,200	28.07	6.62	-105	0.97
MW-23	14-Dec-05	15,800	26.35	8.13	94	8.54
	08-Mar-06	21,100	27.87	7.15	199	5.47
	02-May-06	16,200	29.60	6.85	-13	
	04-Oct-06	21,200	30.34	7.62	40	6.14
	12-Dec-06	17,600	23.60	6.67	127	1.81
MW-24A	06-Mar-06	3,140	28.11	7.47	239	5.17
	03-Oct-06	3,910	29.14	7.42	101	2.87
	14-Dec-06		29.73	7.44	76	0.33
MW-24B	07-Mar-06	17,200	30.96	7.73	199	2.59
	03-Oct-06	18,700	30.38	7.85	85	2.72
	14-Dec-06	, 	29.67	7.78	4	0.51
MW-24BR	15-Dec-05	18,500	28.20	7.71	-291	2.25
	16-Mar-06	16,400	24.96	7.05	-230	3.75
	10-May-06	20,700	33.73	7.64	-325	2.40
	05-Jun-06	12,700	41.92	6.81	-287	
	01-Nov-06	17,300	36.40	7.39	-183	1.20
	14-Dec-06	20,400	31.29	7.95	-209	0.31
MW-25	14-Dec-05	1,220	28.85	8.40	156	7.97
	09-Mar-06	2,750	29.19	7.28	210	7.40
	03-May-06	2,110	30.70	7.06	98	7.72
	03-Oct-06	1,720	28.62	7.39	81	6.88
MW-26	12-Dec-05	3,440	29.00	7.33	161	9.93
	08-Mar-06	3,840	29.14	7.98	170	9.16
	01-May-06	3,290	30.30	7.14		
	03-Oct-06	4,140	29.74	7.20	104	
MW-27-20	14-Dec-05	1,120	18.69	7.58	-171	2.19

TABLE 8Field Water Quality Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	рН	ORP (mV)	Dissolve Oxygen (mg/L)
Monitoring Wel		(,	(• /	P	(,	(9.–)
MW-27-20	06-Mar-06	910	18.16	8.01	-153	0.38
10100-27-20	01-May-06	1,510	50.00	7.00	-100	2.51
	14-Jun-06	2,730	23.79	7.53	-178	4.57
	03-Oct-06	1,240	22.78	7.33 7.49	-176	0.48
MW-27-60	15-Dec-05	10,000	20.71	6.52	-134	2.89
10100 27 00	07-Mar-06	13,700	21.55	7.76	-118	2.46
	01-May-06	12,100	40.96	6.91	-140	1.02
	03-Oct-06	14,300	22.07	7.47	-122	0.76
MW-27-85	15-Dec-05	14,300	21.18	6.34	-124	2.76
10100-27-05	12-Jan-06	22,600	21.36	7.57	-91	2.78
	08-Feb-06	21,100	22.00	7.09	-82	2.58
	06-Mar-06	15,800	21.67	7.62	-92	0.16
	03-Apr-06	18,200	23.12	6.88	-92 -102	2.50
	03-Apr-00 01-May-06	18,300	39.90	6.70	-102 -104	0.94
	14-Jun-06	22,400	23.89	6.89	-10 4 -98	3.32
	12-Jul-06	21,400	22.80	6.62	-90 -71	2.18
	08-Aug-06	22,900	23.15	6.75	-71	2.10
	06-Sep-06	23,200	27.30	7.56	-33 -87	2.69
	13-Oct-06	24,100	21.27	6.93	-07 -78	1.07
	16-Nov-06	23,400	20.40	6.96	-76 -87	1.21
	11-Dec-06	26,700	24.39	7.56	-82	1.26
MW-28-25	16-Dec-05	1,390	23.10	7.16	-69	2.52
10100-20-25	09-Mar-06	1,140	21.53	7.10	-54	3.52
	05-May-06	1,260	23.90	6.75	-126	0.75
	11-Oct-06	1,860	24.13	7.05	-111	1.54
MW-28-90	16-Dec-05	8,430	21.80	7.42	-176	2.47
20 00	10-Jan-06	11,000	21.90	8.01	-140	3.32
	09-Feb-06	8,830	22.07	7.55	-156	2.76
	06-Mar-06	6,830	21.76	8.22	-151	0.26
	06-Apr-06	8,160	23.01	7.77		2.09
	05-May-06	8,690	25.14	7.05	-150	0.78
	15-Jun-06	7,980	23.15	7.34	-153	3.93
	13-Jul-06		23.49	7.33	-150	1.59
	11-Aug-06	12,300	23.03	6.66	-159	0.58
	08-Sep-06	7,830	21.78	7.50	-133	3.17
	13-Oct-06	9,700	20.54	7.46	-156	1.00
	14-Dec-06	7,590	20.00	7.44	-160	0.27
MW-29	12-Dec-05	4,280	24.07	7.89	-40	5.49
_ 0	13-Apr-06	4,220	24.93	7.77	-142	4.15
	05-May-06	4,430	30.90	6.75	-128	1.26
	13-Oct-06	4,770	25.18	7.14	-56	5.26
MW-30-30	15-Dec-05	38,900	26.41	6.29	-100	2.95
14144 00-00	13-Mar-06	55,600	25.61	7.39	-99	1.15
	02-May-06	54,600	29.60	6.57	-104	2.38
	10-Oct-06	56,500	27.42	6.91	-10 4 -129	1.39

TABLE 8Field Water Quality Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pН	ORP (mV)	Dissolve Oxygen (mg/L)
Monitoring Well	ls	. ,	. ,	•		
MW-30-50	16-Dec-05	8,840	25.10	7.16	-263	2.49
	09-Mar-06	8,800	25.55	7.52	-81	2.42
	02-May-06	14,300	27.80	6.84	-102	2.82
	11-Oct-06	8,280	24.85	7.16	-113	0.75
MW-31-60	13-Dec-05	2,870	27.95	8.46	119	6.75
10100-31-00	15-Mar-06	2,750	28.69	7.68	217	7.01
	01-May-06	2,740	29.40	7.40		7.01
	05-Oct-06	3,440	28.30	7. 4 6	82	7.77
MW-31-135	14-Dec-05	7,980	27.90	8.77	124	4.13
10100-31-133	14-Dec-05 15-Mar-06	13,400	28.84	7.75	33	3.05
	09-May-06	15,900	31.92	7.73 7.58	82	2.75
	05-Oct-06	13,600	29.48	7.38 7.73	65	2.73
NAVA 00 00		•				
MW-32-20	16-Dec-05	33,900	24.50	7.19	-107	2.65
	10-Mar-06		24.08	7.36	-125	0.44
	04-May-06	25,500	29.70	6.11	-120	0.40
	02-Oct-06	59,800	30.32	6.72	-122	0.91
	11-Dec-06	61,300	29.37	7.34	-110	1.83
MW-32-35	16-Dec-05	11,200	24.68	7.71	-141	2.43
	10-Mar-06	9,570	25.23	7.90	-161	0.09
	04-May-06	16,500	28.70	6.57	-171	0.26
	02-Oct-06	20,000	26.19	7.69	-162	0.69
	11-Dec-06	23,700	27.95	7.85	-149	1.47
MW-33-40	12-Dec-05		22.02	8.23	45	4.85
	04-May-06	4,580	33.10	7.15	12	5.25
	06-Oct-06	6,710	23.80	8.07	167	
	14-Dec-06	7,080	26.20	7.92	31	2.80
MW-33-90	13-Dec-05	9,310	26.60	7.66	-43	2.29
	08-Mar-06	10,200	26.82	8.17	-42	0.26
	03-May-06	10,400	32.20	6.75	-44	0.40
	06-Oct-06	12,500	27.28	7.47	110	0.95
	15-Dec-06	14,600	28.59	7.65	110	1.74
MW-33-150	12-Dec-05	19,200	27.24	8.15	21	3.88
	10-Jan-06	21,800	26.81	8.01	27	3.70
	07-Feb-06	20,400	27.30	7.59	-61	2.69
	08-Mar-06	20,400	26.59	8.06	-55	0.26
	06-Apr-06	18,300	27.88	7.78	39	2.13
	03-May-06	17,100	34.40	6.75	-23	1.02
	16-Jun-06	21,300	27.84	6.98	38	2.82
	13-Jul-06	22,400	29.07	7.32	-14	1.09
	11-Aug-06	20,200	28.92	6.85	-19	1.79
	08-Sep-06	17,900	27.22	7.61	28	1.79
	06-Oct-06	20,500	28.10	7.45	15	0.91
	13-Dec-06	17,500	27.20	7.47	-5	0.39
MW-33-210	12-Dec-05	21,900	27.15	7.90	40	3.60

TABLE 8Field Water Quality Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	рН	ORP (mV)	Dissolve Oxygen (mg/L)
Monitoring Well	ls					
MW-33-210	10-Jan-06	24,200	27.49	7.77	13	3.17
WW 55 210	07-Feb-06	22,800	27.50	7.40	-14	2.70
	06-Mar-06	16,600	27.64	7.98	-37	0.21
	13-Apr-06	18,100	31.85	8.15	21	6.81
	05-May-06	20,100	28.30	6.50	34	0.39
	16-Jun-06	23,600	27.86	7.03	-27	2.86
	13-Jul-06	27,100	28.50	7.15	36	2.24
	08-Aug-06	23,900	29.27	7.15	70	3.12
	08-Sep-06	21,000	26.90	7.40	59	1.68
	06-Oct-06	24,000	27.36	7.40	28	0.94
	11-Dec-06	27,600	30.26	7.43	157	1.17
MM 04 55						
MW-34-55	14-Dec-05	6,610	20.28	7.30	-124	2.08
	08-Mar-06	8,460	20.41	7.94	-106	
	03-May-06	7,580	27.40	6.64	-117	0.33
	04-Oct-06	3,080	20.03	7.24	-178	2.17
MW-34-80	14-Dec-05	10,400	22.47	7.02	-88	2.28
	11-Jan-06	18,100	22.16	7.50	-38	3.08
	08-Feb-06	16,400	27.25	7.17	-22	2.63
	09-Mar-06	15,100	21.51	7.38	-12	2.20
	03-Apr-06	13,500	23.30	7.03	-38	2.40
	03-May-06	13,800	27.30	6.37	-68	0.15
	14-Jun-06	15,600	23.00	6.96	-99	2.65
	12-Jul-06	14,800	23.93	6.96	-75	1.58
	08-Aug-06	16,200	23.11	7.05	-33	0.59
	06-Sep-06	16,000	24.62	7.75	-84	0.95
	04-Oct-06	14,400	20.88	6.91	-111	2.12
	16-Nov-06	13,200	20.40	7.18	-86	1.09
	12-Dec-06	15,000	21.11	7.18	-23	0.26
ЛW-34-100	14-Dec-05	12,400	21.75	7.38	-26	2.33
	28-Dec-05	19,300	22.40	7.22	-28	2.38
	12-Jan-06	21,000	22.00	7.77	104	3.17
	23-Jan-06	23,300	22.30	7.38	136	2.57
	08-Feb-06	20,100	22.83	7.54	65	2.50
	22-Feb-06	21,900	22.88	7.61	225	3.01
	08-Mar-06	18,600	22.62	8.13	-8	
	23-Mar-06	18,400	22.54	7.50	113	2.21
	03-Apr-06	16,800	24.50	7.39	42	2.81
	03-May-06	18,200	32.90	6.71	-10	0.33
	17-May-06	23,800	27.80	7.41	44	3.11
	31-May-06	16,100	29.17	6.53	104	3.13
	14-Jun-06	20,800	24.24	7.42	-2	3.21
	28-Jun-06	21,800	25.77	7.09	132	4.98
	12-Jul-06	19,300	24.05	7.35	27	1.48
	26-Jul-06		23.55	7.48	36	2.20
	08-Aug-06	20,600	24.55	7.44	64	0.48
	28-Aug-06	28,900	26.40	7.45	69	1.29

TABLE 8Field Water Quality Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	рН	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Well	ls					
MW-34-100	06-Sep-06	22,500	25.55	7.99	117	1.93
10100-34-100	20-Sep-06	19,600	25.45	7.83	181	1.52
	04-Oct-06	20,700	21.89	7.40	0	2.03
	18-Oct-06	21,700	23.91	8.14	52	0.76
	01-Nov-06	20,200	25.12	7.48	33	1.56
	16-Nov-06	20,500	21.00	7. 4 6	146	1.35
	30-Nov-06	21,900	25.62	7.72	115	0.93
	12-Dec-06	21,000	21.95	7.62	-16	0.25
	28-Dec-06	16,760	21.30	7.68	115	0.23
MW-35-60	14-Dec-05	5,800	25.95	8.34	95	3.97
10100-33-60	14-Mar-06	5,600	26.87	7.23	95 42	2.92
	01-May-06	6,770	29.80	7.23 7.15	-37	2.92
	12-Oct-06	12,200	29.89	8.01	-3 <i>1</i> 112	1.26
104/05/05						
MW-35-135	14-Dec-05	8,480	26.27	8.76	38	3.17
	10-Mar-06	12,400	25.96	7.98	103	2.44
	02-May-06	13,000	28.00	7.39	0	2.70
	12-Oct-06	14,400	31.03	8.19	113	1.20
MW-36-20	15-Dec-05		24.89	7.39	-112	2.36
	07-Mar-06	18,900	24.38	7.82	-148	2.50
	01-May-06	20,100	25.42	7.78	-180	5.28
	02-Oct-06	24,000	25.27	7.19	-177	1.84
MW-36-40	15-Dec-05	15,400	24.70	7.87	-190	2.68
	07-Mar-06	17,000	24.57	7.71	-166	3.30
	01-May-06	13,500	26.08	7.83	-179	5.10
	05-Oct-06	16,000	23.94	7.30	-194	1.37
MW-36-50	15-Dec-05	13,700	24.70	7.61	-136	2.80
	07-Mar-06	8,400	24.34	7.66	-110	2.72
	01-May-06	6,810	25.96	7.90	-162	3.60
	05-Oct-06	4,200	23.35	7.48	-165	1.39
MW-36-70	15-Dec-05	9,310	24.43	7.73	-108	2.27
	10-Feb-06	12,600	25.21	7.39	-91	2.66
	07-Mar-06	9,720	24.15	7.64	-67	2.51
	06-Apr-06	7,740	24.51	7.57		1.79
	01-May-06	8,180	25.24	7.79	-130	4.64
	13-Jun-06	7,840	33.60	5.95		
	11-Jul-06	7,320	26.10	7.21	-108	0.64
	09-Aug-06	6,920	27.97	7.22	-149	0.72
	07-Sep-06	5,930	23.60	7.34	-105	1.70
	02-Oct-06	5,220	25.77	7.40	-122	1.43
	14-Dec-06	3,440	25.80	7.62	-112	1.76
MW-36-90	15-Dec-05	18,000	24.62	7.54	34	2.48
	12-Jan-06	19,500	24.75	7.48	13	2.78
	10-Feb-06	16,100	25.15	7.35	37	3.43
	07-Mar-06	14,700	24.51	7.60	42	3.09
	04-Apr-06	12,700	25.58	7.12	5	2.42

TABLE 8Field Water Quality Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	рН	ORP (mV)	Dissolved Oxygen (mg/L)
		(μο/οιτι)	(0)	Pii	(1114)	(1119/2)
Monitoring Well						
MW-36-90	01-May-06	11,400	25.83	7.71	24	4.39
	13-Jun-06	10,300	32.50	5.84		
	11-Jul-06	14,000	26.47	7.11	-34	0.77
	09-Aug-06	9,190	26.55	7.13	-96	0.82
	07-Sep-06	8,400	24.34	7.34	-55	1.67
	02-Oct-06	8,270	25.23	7.22	-20	1.04
	15-Nov-06	11,700	27.59	7.77	-64	1.04
	14-Dec-06	7,250	27.04	7.19	-39	1.68
MW-36-100	13-Dec-05	16,500	25.18	7.22	5	2.20
	12-Jan-06	21,600	25.43	7.45	28	2.91
	09-Feb-06	19,700	26.32	7.25	18	2.56
	13-Mar-06	17,400	25.95	7.79	-16	0.16
	05-Apr-06	15,300	24.66	8.31	24	0.09
	02-May-06	21,900	29.01	6.86	23	2.72
	15-Jun-06	18,200	26.71	7.13	7	3.60
	13-Jul-06	19,600	25.93	6.89	37	1.04
	09-Aug-06	14,600	25.86	7.11	67	1.60
	08-Sep-06	16,200	25.93	7.34	-10	2.61
	11-Oct-06	16,500	25.40	7.07	17	0.91
	14-Nov-06	17,900	27.60	7.78	13	1.04
	11-Dec-06	21,700	28.08	7.94	-64	1.08
MW-37D	14-Dec-05	13,100	28.94	8.70	71	4.03
	13-Mar-06	18,600	29.56	7.68	118	3.37
	03-May-06	33,000	31.44	7.11	96	3.23
	13-Oct-06	30,600	31.67	7.93	2	1.92
	14-Dec-06		30.57	7.66	92	0.67
MW-37S	14-Dec-05	3,860	27.67	8.78	69	4.20
10100-37-3	13-Mar-06	6,000	28.44	7.73	106	3.81
	04-May-06	6,080	29.99	7.73	116	3.53
	13-Oct-06		31.70	8.01	-12	2.48
MW-38D	10-Mar-06	23,800	28.47	7.48	112	2.09
	12-Oct-06	26,300	30.83	7.69	-31	1.25
MW-38S	10-Mar-06	4,750	28.69	7.19	158	3.44
	12-Oct-06	4,490	30.54	7.25	48	4.64
MW-39-40	16-Dec-05	5,680	25.94	7.34	-177	2.07
	07-Mar-06	8,450	25.57	7.76	-162	3.03
	02-May-06	8,150	27.41	6.89	-188	0.13
	05-Oct-06	12,500	25.72	7.21	-198	1.35
	14-Dec-06	13,200	27.53	7.13	-174	1.72
MW-39-50	16-Dec-05	11,300	25.97	7.07	-57	2.01
14144 00-00	12-Jan-06	18,300	25.53	7.54	-57 -9	2.84
	08-Mar-06	16,000	25.31	7.5 4 7.76	-9 71	2.31
	02-May-06	9,380	32.00	6.56	-45	0.18
	05-Oct-06	11,200	25.79	7.19	- 4 5 -77	1.38
NAVA 00 00						
MW-39-60	16-Dec-05	11,200	25.15	6.83	-40	2.34

TABLE 8Field Water Quality Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pН	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Well		, ,	(- /	<u> </u>		,
MW-39-60	08-Mar-06		25.50	7.50	12	2.10
	02-May-06	12,000	32.40	6.43	-39	0.19
	05-Oct-06	11,300	25.74	7.14	-54	1.24
MW-39-70	16-Dec-05	10,000	25.97	7.10	22	2.19
10100 00 70	10-Feb-06	15,500	25.88	7.10	48	2.81
	08-Mar-06	16,300	25.40	7.56	201	2.79
	06-Apr-06	12,300	25.64	7.24	88	2.13
	02-May-06	11,200	28.60	6.32	31	0.15
	14-Jun-06	10,300	27.24	5.92	197	0.13
	12-Jul-06	9,570	29.67	5.35	74	0.88
	10-Aug-06	3,370	26.45	7.00	67	0.60
	07-Sep-06	9,760	27.36	7.00	21	1.67
	07-Sep-00 05-Oct-06	12,200	25.78	7.22	-1	1.07
	14-Dec-06	8,190	27.15	7.01	2	1.79
MW-39-80	15-Dec-05	15,400	25.72	7.55	78	2.24
10100-39-00	12-Jan-06	18,200	25.72	7.43	58	2.24
	10-Feb-06	18,900	26.04	7.43 7.16	66	2.60
	08-Mar-06	20,900	25.40	7.10 7.51	154	2.23
	06-Apr-06	15,800	25.40 25.57	7.31	86	2.23
	-	14,900	30.10	6.22	61	0.19
	02-May-06 14-Jun-06	15,100	27.08	5.80	184	0.19
	12-Jul-06	14,600	28.11	5.20	69	1.07
	12-3ul-06 10-Aug-06	15,800	28.08	6.73	78	0.63
	_		26.29	7.08	47	1.63
	07-Sep-06 05-Oct-06	17,500	25.92	6.82	47 76	1.03
	15-Nov-06	19,500 17,600	28.75	7.41	76 52	0.95
	14-Dec-06	17,300	27.69	6.94	52 44	1.70
MW-39-100		20,100	26.70	7.06	139	3.00
VIVV-39-100	13-Dec-05 12-Jan-06	22,900	26.44	7.00 7.42	121	3.56
	09-Feb-06	21,700	27.38	7.42 7.18	121	2.88
	13-Mar-06	20,400	26.93	7.16 7.59	51	2.00 0.70
	05-Apr-06	18,300	26.63	7.59 8.17	73	0.70
			28.20	6.64	67	
	02-May-06 14-Jun-06	 23,100				3.48
	13-Jul-06	26,200	27.37	6.93	79 80	3.44
			27.57	6.81	141	1.46
	10-Aug-06	23,000	27.63	6.94		1.63
	08-Sep-06	20,700	27.34	7.14	46	2.75
	11-Oct-06	23,100	26.32	6.87	87 06	1.24
	15-Nov-06 12-Dec-06	23,000	26.30 26.61	6.97 7.04	96 95	2.48
NAV 405		24,200	26.61		95	0.43
MW-40D	13-Dec-05	18,300	30.39	8.39	-6	2.80
	08-Mar-06	18,900	31.56	7.42	45	2.13
	03-May-06		32.36	6.77	66	2.53
	05-Oct-06	20,900	32.05	7.57	84	2.14
	13-Dec-06		30.86	7.40	150	0.26

TABLE 8Field Water Quality Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	рН	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wel		(F-22-2-7)	(- /	<u> </u>	(****)	(3)
		0.400	00.70	0.04	4.57	0.00
MW-40S	13-Dec-05	2,130	28.79	8.34	157	8.02
	08-Mar-06	2,670	30.87	7.50	233	7.85
	03-May-06	3,080	31.39	6.98	92	8.47
	05-Oct-06	2,680	32.32	7.52	92	7.32
MW-41D	16-Dec-05	20,200	29.05	8.31	-163	2.15
	15-Mar-06	24,700	30.92	7.71	-115	2.10
	05-May-06	20,700	30.67	7.88	-136	0.33
	04-Oct-06	24,000	31.93	7.90	-117	0.64
MW-41M	16-Dec-05	14,400	28.50	8.14	-38	2.08
	13-Mar-06	17,900	29.77	7.66	18	2.22
	05-May-06	15,000	30.59	7.88	88	3.47
	05-Oct-06	19,500	29.53	7.67	87	1.91
MW-41S	16-Dec-05	4,420	27.86	8.37	-3	2.86
	13-Mar-06	9,600	27.22	7.85	48	3.36
	05-May-06	4,760	31.33	8.09	80	2.31
	05-Oct-06	6,000	28.65	7.83	65	3.11
MW-42-30	15-Dec-05	14,500	25.01	6.43	-129	2.39
10100-42-50	07-Mar-06	11,400	25.22	7.93	-129 -154	0.36
	07-Mar-06 02-May-06	18,500	36.30	7.93 6.90	-15 4 -160	2.29
	02-May-06 03-Oct-06	19,700	27.77	7.29	-160	0.89
		•				
MW-42-55	15-Dec-05	11,100	24.44	6.50	-143	2.38
	07-Mar-06	16,500	25.12	7.76	-122	0.27
	02-May-06	21,400	37.00	6.76	-138	2.17
	03-Oct-06	19,100	26.35	7.30	-126	0.76
	14-Dec-06	16,500	24.30	7.15	-132	0.50
MW-42-65	15-Dec-05	13,200	23.43	6.29	-78	2.49
	07-Mar-06	20,100	24.66	7.37	-58	0.39
	02-May-06	25,400	36.60	6.47	-76	2.15
	03-Oct-06	20,400	26.39	7.05	-50	0.70
	14-Dec-06	18,300	23.40	6.84	-42	0.64
MW-43-25	16-Dec-05	1,420	20.00	7.25	-184	2.53
	10-Mar-06	1,350	20.50	7.88	-153	0.29
	04-May-06	1,280	30.00	6.74	-176	0.45
	02-Oct-06	1,310	22.84	8.04	-172	0.61
MW-43-75	16-Dec-05	15,900	20.90	7.19	-179	2.40
	11-Jan-06	18,400	21.04	7.73	-134	3.16
	10-Feb-06	18,500	21.30	7.29	-154	3.00
	10-Mar-06	14,400	21.03	8.05	-149	0.11
	03-Apr-06	15,000	21.35	7.12	-148	2.33
	04-May-06	15,400	26.60	6.83	-167	0.34
	02-Oct-06	17,900	22.33	7.68	-128	1.18
	12-Dec-06	17,400	21.05	7.34	-109	1.18
MW-43-90	16-Dec-05	22,300	21.30	6.72	-127	2.51
10100- 10 -20	11-Jan-06	26,500	21.57	7.16	-12 <i>1</i> -89	3.28

TABLE 8Field Water Quality Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

	Sampling	Specific Conductance	Temperature		ORP	Dissolved Oxygen
Location	Date	(µS/cm)	(°C)	рН	(mV)	(mg/L)
Monitoring Wel	ls					
MW-43-90	10-Feb-06	25,900	21.70	6.89	-112	2.81
	10-Mar-06	21,100	21.41	7.48	-116	0.01
	03-Apr-06	21,100	21.56	6.58	-97	2.32
	04-May-06	22,400	29.40	6.27	-124	0.38
	02-Oct-06	23,600	22.65	7.22	-108	0.39
	12-Dec-06	25,200	21.62	6.76	-85	0.46
MW-44-70	09-Mar-06	6,970	24.05	7.98	-393	2.38
	23-Mar-06	7,600	25.55	7.48	-166	2.41
	04-Apr-06	9,200	25.30	8.16	-96	1.60
	04-May-06	10,000	25.50	7.93	-156	4.49
	13-Jun-06	12,200	25.21	7.09	-131	4.33
	15-Jun-06	14,900	25.66	7.27	-118	5.38
	04-Oct-06	8,910	24.27	7.09	-181	2.33
	14-Dec-06	6,730	22.50	7.35	-129	1.69
MW-44-115	14-Mar-06	16,500	25.36	7.54	-11	1.49
	22-Mar-06		25.88	8.52	-74	2.98
	04-Apr-06	15,800	26.68	8.62	37	1.76
	20-Apr-06	11,400	26.70	6.87	-38	0.45
	26-Apr-06	15,800	25.76	7.72	-27	2.52
	04-May-06	17,300	26.40	8.32	-21	4.89
	10-May-06	22,700	26.99	7.56	7	2.23
	17-May-06	19,600	26.66	7.74	-10	1.85
	31-May-06	13,100	34.75	6.85	-11	0.23
	13-Jun-06	17,700	25.87	7.42	-26	3.25
	28-Jun-06	16,800	32.60	7.50	-37	4.00
	12-Jul-06	17,300	25.98	7.51	14	1.23
	26-Jul-06		26.06	7.72	-31	0.56
	09-Aug-06	17,700	28.92	7.50	63	2.93
	23-Aug-06	16,800	29.02	7.31	93	0.55
	07-Sep-06	15,600	24.54	7.74	139	1.70
	21-Sep-06	14,600	24.77	7.64	57	2.65
	05-Oct-06	18,400	24.61	8.14	3	2.87
	18-Oct-06	18,300	26.40	8.25	23	0.75
	15-Nov-06	14,000	24.00	7.72	19	1.52
	12-Dec-06	18,300	24.21	7.71	116	0.64
NAVA 44 40E						
MW-44-125	09-Mar-06	13,500	24.66	8.68	-419	2.58
	22-Mar-06	15,000	26.03	9.11	-280	1.53
	04-Apr-06	15,600	28.90	9.16	10	1.91
	20-Apr-06	11,400	26.80	7.84	-138	0.00
	26-Apr-06	16,200	26.95	8.23	-147	2.45
	04-May-06	17,200	27.70	8.97	-144	4.41
	10-May-06	23,000	29.69	8.13	-96	2.18
	17-May-06	19,700	27.62	8.13	-103	1.74
	31-May-06	13,600	34.55	7.26	-95	0.44
	28-Jun-06	13,000	27.71	7.30	-186	4.25
	11-Jul-06	12,100	37.10	6.90	-16	0.74

TABLE 8Field Water Quality Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	рН	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells		(µ0/0111)	(0)	Ρ	(,	(9, =)
MW-44-125	26-Jul-06		28.31	7.87	-140	1.86
10100-44-125	09-Aug-06	16,800	29.13	7.70	-1 4 0 -93	0.55
	28-Aug-06	17,700	28.38	8.00	-93 -188	1.12
	07-Sep-06	14,600	24.30	8.14	-100 -39	4.06
	20-Sep-06	16,700	25.31	8.92	-39 -130	0.40
	05-Oct-06	18,000	26.46	8.39	-130 -97	2.57
	18-Oct-06	18,900	25.97	8.51	-97 -112	0.76
	15-Nov-06	14,200	24.50	7.98	-112	1.26
	13-Nov-06	14,200	24.00	7.98 8.07	-67	0.76
NAV. 45.005						
MW-45-095a	24-Mar-06	16,100	23.78	7.46	-20	2.32
	13-Jul-06	22,200	25.43	7.25	45	1.39
MW-45-095b	24-Mar-06	16,700	22.91	7.53	-12	2.10
MW-46-175	14-Mar-06	19,500	26.33	8.13	-44	2.19
	24-Mar-06	19,900	25.60	9.19	-93	1.87
	07-Apr-06	18,500	23.39	8.78	-116	2.10
	04-May-06	20,800	27.40	8.92	-27	4.81
	18-May-06	20,500	28.20	8.11	-17	2.62
	31-May-06	15,900	36.28	7.31	37	1.23
	15-Jun-06	19,900	26.09	8.07	-16	3.16
	30-Jun-06	21,800	24.80	7.91	56	6.19
	12-Jul-06	19,500	26.79	7.97	38	1.48
	27-Jul-06		25.91	8.21	16	0.67
	09-Aug-06	21,900	28.49	8.02	65	0.72
	25-Aug-06	19,800	27.99	7.85	-24	1.14
	07-Sep-06	26,400	27.50	8.31	90	2.23
	21-Sep-06	18,300	25.54	8.26	43	2.32
	05-Oct-06	22,200	25.29	8.75	0	2.83
	18-Oct-06	21,900	26.74	8.86	15	0.86
	15-Nov-06	17,100	24.40	8.28	-118	1.11
	13-Dec-06	17,700	24.60	8.31	-33	0.28
MW-46-205	14-Mar-06	22,600	26.27	8.02	-117	2.27
	24-Mar-06	24,000	26.40	9.05	-202	1.68
	07-Apr-06	22,400	26.16	8.66	-200	1.93
	04-May-06	25,900	27.46	8.76	-177	4.60
	15-Jun-06	24,100	25.98	7.69	-147	2.88
	13-Jul-06	24,900	27.02	7.85	-152	1.03
	10-Aug-06	22,900	27.13	7.98	-88	1.29
	07-Sep-06	26,000	28.00	8.21	-37	1.62
	05-Oct-06	27,500	26.98	8.65	-96	2.41
	13-Dec-06	21,000	25.10	8.21	10	0.97
MW-47-55	23-Mar-06	5,800	28.82	7.67	-94	2.98
	16-May-06	4,430	29.50	7.31	22	2.89
	10-Oct-06	5,300	27.85	7.48	6	2.83
	14-Dec-06	3,970	27.60	7.64	28	2.19
MW-47-115	23-Mar-06	15,600	29.46	7.79	-161	2.32

TABLE 8Field Water Quality Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	рН	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Well	s					
MW-47-115	16-May-06	18,400	29.60	7.22	-67	1.93
	10-Oct-06	16,800	28.45	7.59	-80	1.13
	14-Dec-06	14,800	27.80	7.63	-25	0.36
MW-48	18-May-06	12,300	34.53	7.02	-39	1.53
	06-Jun-06	15,000	41.55	6.37	-128	0.63
	06-Oct-06	21,600	33.61	7.01	-65	1.49
	13-Dec-06	58,200	25.46	7.39	-8	3.51
MW-49-135	25-Apr-06	18,800	25.69	7.55	-167	2.42
	18-May-06	17,100	26.68	7.21	-178	2.29
	12-Oct-06	21,200	24.94	7.73	-200	1.90
	15-Dec-06	27,700	25.30	7.50	-157	0.26
MW-49-275	25-Apr-06	29,400	29.06	7.88	-143	3.35
10177 70 270	18-May-06	26,700	29.92	7.68	-143 -214	2.17
	12-Oct-06	31,100	28.34	8.21	-252	1.82
	15-Dec-06	30,000	29.51	8.29	-213	1.68
MANA 40 265						
MW-49-365	26-Apr-06	37,600	28.97	7.85	-244	2.19
	16-May-06	44,900	32.14	7.68	-192	1.80
	12-Oct-06	47,700	28.83	8.07	-275 473	1.43
	15-Dec-06	44,400	30.09	8.31	-172	1.72
MW-50-095	09-May-06	5,480	31.23	7.20	30	3.00
	24-May-06		31.08	7.36	50	3.42
	10-Oct-06	7,120	28.57	7.72	24	2.85
	12-Dec-06	4,590	28.30	7.79	112	2.40
MW-50-200	09-May-06	20,200	33.28	7.29	-11	1.91
	24-May-06	37,000	32.25	7.10	60	4.11
	10-Oct-06	28,100	28.96	7.70	93	2.99
	12-Dec-06	20,600	29.50	7.77	123	3.17
MW-51	12-May-06	12,100	34.29	6.35	92	2.51
	30-May-06	10,600	33.16	7.40	17	1.53
	06-Oct-06	13,800	29.21	7.41	119	3.79
	12-Dec-06	10,800	30.00	7.40	129	3.07
OW-3D	09-Mar-06	7,840	29.71	7.66	-1	2.00
	06-Oct-06	11,500	30.78	8.96	52	2.05
OW-3M	09-Mar-06	5,550	29.72	7.70	-41	2.38
OVV-SIVI	12-Oct-06	6,320	31.85	8.42	75	1.30
OW 20						
OW-3S	09-Mar-06	2,480	29.23 31.80	7.43	57 85	6.77 6.01
DE 4	12-Oct-06	2,840		8.18	85	6.01
PE-1	13-Dec-05	12,400	23.07	7.21	-148	2.19
Park Moabi	16-Dec-05	2,860	28.83	7.96	-26	3.67
	06-Mar-06	1,110	29.10	8.01	275	4.67
	03-May-06	1,510	29.30	8.28	112	
	04-Oct-06	1,630	30.03	7.74	69	
TW-2D	15-Mar-06	8,470	26.30	7.46	5	5.20

TABLE 8Field Water Quality Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Conductance (µS/cm)	Temperature (°C)	рН	ORP (mV)	Oxygen (mg/L)
Monitoring Wells			. ,			
TW-2D	03-May-06	8,490	28.70	8.35	82	6.10
	04-Oct-06	11,900	29.06	7.38	162	4.91
TW-2S	15-Mar-06	3,200	27.97	7.84	-38	7.53
	03-May-06	3,150	28.80	8.20	80	6.75
	04-Oct-06	3,470	28.95	7.60	224	6.70
TW-4	18-May-06	15,600	32.70	7.05	-97	0.56
	05-Jun-06	18,300	35.62	6.35	-131	0.00
	09-Oct-06	24,700	30.04	7.55	12	1.11
TW-5	10-May-06	15,100	32.57	7.09	-161	0.60
	01-Jun-06	10,600	34.87	6.72	17	1.51
	09-Oct-06	15,800	29.90	7.79	60	1.12
Shoreline Surface		. 0,000				
CON	15-Dec-05	1,160	11.30	8.02	186	13.61
0011	11-Jan-06	1,330	11.80	8.76	66	12.86
	09-Feb-06	1,180	12.06	8.59	163	10.94
	06-Mar-06		12.70	8.51	299	10.69
	07-Apr-06	1,560	20.59	8.77		9.36
	03-May-06	913	19.48	8.76	216	8.83
	15-Jun-06	960	19.10	6.80	147	7.99
	12-Jul-06	760	29.75	5.67	82	6.68
	08-Aug-06		22.33	8.00	118	9.77
	06-Sep-06	1,310	23.80	8.70	58	7.98
	04-Oct-06	1,290	20.95	8.02	184	9.18
	15-Nov-06	1,470	20.03	8.64	134	7.26
	19-Dec-06	1,200	11.69	8.36	190	10.75
I-3	15-Dec-05	1,160	11.40	8.18	182	11.33
	11-Jan-06	1,330	11.50	8.82	21	12.11
	10-Feb-06	1,170	11.57	7.68	258	11.10
	06-Mar-06	930	12.84	7.40	217	12.20
	07-Apr-06	1,250	20.11	8.53		9.57
	03-May-06	920	18.20	8.60	182	10.63
	15-Jun-06	920	21.28	7.11	151	6.88
	12-Jul-06	900	36.93		76	6.69
	10-Aug-06	1,430	22.47	7.88	102	8.62
	06-Sep-06	1,500	23.90	8.72	60	8.00
	04-Oct-06	1,300	22.31	8.03	177	
	15-Nov-06	1,180	20.03	8.59	191	7.01
	19-Dec-06	1,190	11.68	8.26	231	10.71
NR-1	15-Dec-05	1,160	11.20	6.52	222	11.52
	10-Jan-06	1,390	12.80	8.84	92 102	14.09
	07-Feb-06	1,130 	12.10	8.62	102	12.47
	06-Mar-06 07-Apr-06	 1,140	12.35 15.10	8.38 8.87	296 80	11.18 11.79
	07-Apr-06 03-May-06	904	18.02	8.83	230	10.24
	UU-IVIAY-UU	∂U 1	10.02	0.00	230	10.24

TABLE 8Field Water Quality Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	рН	ORP (mV)	Dissolved Oxygen (mg/L)
Shoreline Surfa	ace Water Station					
NR-1	13-Jul-06	900	30.13	5.74	78	6.61
	08-Aug-06	1,530	21.93	7.95	105	10.44
	06-Sep-06	1,320	23.90	8.74	59	8.05
	04-Oct-06	1,290	20.53	8.01	180	9.17
	15-Nov-06	1,540	19.62	8.69	132	7.58
	19-Dec-06	1,180	11.87	8.34	187	10.90
NR-2	15-Dec-05	1,130	11.40	7.23	199	11.28
IVI Z	10-Jan-06	1,310	11.75	8.48	113	12.86
	07-Feb-06	1,140	11.60	8.13	101	11.97
	06-Mar-06		12.76	8.50	296	11.08
	07-Apr-06	913	13.72	8.40	83	13.27
	03-May-06	910	17.81	8.84	230	9.91
	16-Jun-06	950	22.13	6.85	149	7.42
	13-Jul-06	999	24.17	5.83	79	6.77
	08-Aug-06	1,890	21.91	7.98	106	9.85
	06-Sep-06	1,320	24.50	7.96 8.75	56	8.23
	04-Oct-06	1,290	20.46	8.00	179	9.21
	15-Nov-06	1,510	20.15	8.72	127	7.22
	20-Dec-06	1,200	11.86	8.35	183	10.76
ND 0						
NR-3	15-Dec-05	1,120	11.50	7.62	194	11.44
	10-Jan-06	1,300	12.01	8.57	116	13.37
	07-Feb-06	1,150	11.60	8.06	96	12.03
	06-Mar-06		12.16	8.40	294	11.49
	07-Apr-06	912	14.82	8.41	93	10.82
	03-May-06	1,140	17.50	8.84	225	9.91
	16-Jun-06	900	24.31	6.85	145	6.91
	13-Jul-06	930	22.40	5.83	83	7.92
	08-Aug-06		21.90	7.95	131	9.43
	06-Sep-06	1,400	26.00	8.84	62	8.71
	04-Oct-06	1,290	20.41	8.01	178	9.20
	15-Nov-06	1,530	20.18	8.69	125	7.18
	20-Dec-06	1,200	11.82	8.40	176	10.79
R-22	16-Dec-05	919	12.10	8.15	-28	10.95
	11-Jan-06	1,200	11.83	8.81		12.64
	08-Feb-06	831	12.24	8.36	207	11.83
	06-Mar-06		12.48	8.09	290	11.83
	03-May-06	918	17.97	8.74	184	9.45
	15-Jun-06	940	20.16	6.97	147	7.82
	12-Jul-06	900	29.35	5.65	82	6.74
	08-Aug-06		22.01	7.41	162	10.28
	07-Sep-06	1,320	23.40	7.89	90	9.49
	04-Oct-06	1,300	22.32	8.11	190	
	15-Nov-06	1,360	20.20	8.49	161	6.98
	20-Dec-06	1,170	11.10	8.42	226	10.75
R-27	16-Dec-05	1,020	11.50	8.09		10.99
	12-Jan-06	822	12.61	8.57	85	12.34

TABLE 8Field Water Quality Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	рН	ORP (mV)	Dissolve Oxygen (mg/L)
Shoreline Surfa	ace Water Station					
R-27	08-Feb-06	838	12.43	8.26	199	11.87
	06-Mar-06	900	12.69	8.19	287	11.47
	07-Apr-06	990	19.36	8.41	17	9.28
	03-May-06	901	18.48	8.81	205	10.23
	15-Jun-06	950	19.42	6.88	149	7.59
	12-Jul-06	940	24.20	5.60	82	8.56
	08-Aug-06		21.98	7.90	143	9.78
	07-Sep-06	1,220	23.70	8.09	80	9.47
	04-Oct-06	1,300	21.61	8.11	177	0.17
	15-Nov-06	1,330	20.11	8.52	151	7.09
	20-Dec-06	1,130	11.11	8.61	226	10.93
R-28	16-Dec-05	914	11.10	8.08	28	11.20
11-20	10-Jan-06	1,260	12.14	8.49	223	12.75
	08-Feb-06	1,150	12.00	8.41	185	12.73
	06-Mar-06	900	12.53	8.17	287	12.37
		937	17.48	8.47	26	9.88
	07-Apr-06	937 921	18.36		20	
	03-May-06			8.85		9.89
	15-Jun-06	950	19.85	6.85	149	8.41
	13-Jul-06	990	24.75	5.90	83	5.96
	08-Aug-06		22.26	7.95	115	9.80
	07-Sep-06	1,240	24.10	8.08	82	9.52
	04-Oct-06	1,300	21.37	8.10	175	7.00
	15-Nov-06	1,430	20.09	8.58	143	7.20
	20-Dec-06	1,260	11.92	8.29	224	11.01
RRB	08-Feb-06	1,630	13.84	8.54	142	11.51
	06-Mar-06	920	15.04	8.41	275	11.68
	07-Apr-06	1,270	20.08	8.28	12	9.46
	03-May-06	1,170	23.33	8.28	190	9.73
	16-Jun-06	900	25.76	6.90	162	7.19
	12-Jul-06	950	27.35	5.73	78	7.48
	10-Aug-06	1,440	24.53	8.26	129	7.31
	06-Sep-06	1,440	27.70	8.62	69	5.84
	04-Oct-06	1,350	24.04	7.93	202	
	15-Nov-06	1,470	19.93	8.60	137	7.09
	20-Dec-06	5,350	9.78	7.80	2.34	
In-Channel Sur	face Water Station					
C-CON-D	13-Dec-05	1,060	13.00	8.24	160	11.61
C-CON-M	13-Dec-05	1,060	13.00	8.25	159	11.15
C-CON-S	13-Dec-05	1,060	12.80	8.26	158	11.15
C-CON-D	18-Jan-06	891	12.33	8.75	238	11.55
C-CON-M	18-Jan-06	896	12.19	8.81	236	10.40
C-CON-S	18-Jan-06	1,100	12.11	8.89	235	10.55
C-CON-D	22-Mar-06	1,130	14.23	8.25	191	11.51
C-CON-M	22-Mar-06	1,140	14.10	8.25	202	11.08
C-CON-S	22-Mar-06	1,130	14.26	8.27	205	11.03
C-CON-D	15-Jun-06	1,010	19.32	6.61	116	8.81

TABLE 8Field Water Quality Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance	Temperature	nU	ORP	Dissolved Oxygen
Location	face Water Station	(µS/cm)	(°C)	рН	(mV)	(mg/L)
		070	40.00	0.74	440	0.57
C-CON-M	15-Jun-06	970	19.33	6.71	110	8.57
C-CON-S	15-Jun-06	960	19.26	6.76	133	7.22
C-CON-D	03-Oct-06	1,160	22.04	7.95	167	10.21
C-CON-M	03-Oct-06	1,160	21.65	7.93	168	9.30
C-CON-S	03-Oct-06	1,170	21.49	7.94	168	9.45
C-CON-D	16-Nov-06	1,910	21.52	7.33	112	9.68
C-CON-M	16-Nov-06	1,920	20.18	7.30	136	8.60
C-CON-S	16-Nov-06	1,840	19.55	7.28	139	9.14
C-CON-D	19-Dec-06		13.00	8.27	194	11.98
C-CON-M	19-Dec-06	1,210	12.47	8.51	192	12.53
C-CON-S	19-Dec-06	1,120	12.92	8.36	193	12.18
C-I-3-D	13-Dec-05	1,070	12.70	8.10	171	11.29
C-I-3-M	13-Dec-05	1,070	12.60	8.11	174	10.99
C-I-3-S	13-Dec-05	1,070	12.60	8.16	171	10.86
C-I-3-D	18-Jan-06	1,160	11.86	8.73	212	10.68
C-I-3-M	18-Jan-06	934	11.55	8.78	208	9.75
C-I-3-S	18-Jan-06	935	11.71	8.81	211	10.04
C-I-3-D	23-Mar-06	835	14.40	8.71	137	10.94
C-I-3-M	23-Mar-06	836	14.28	8.71	137	10.32
C-I-3-S	23-Mar-06	833	14.41	3.99	138	10.56
C-I-3-D	15-Jun-06	930	21.80	7.12	131	6.61
C-I-3-M	15-Jun-06	930	21.13	7.12	133	7.11
C-I-3-S	15-Jun-06	910	21.00	7.12	133	6.81
C-I-3-D	03-Oct-06	1,210	20.36	7.92	168	9.91
C-I-3-M	03-Oct-06	1,160	20.39	7.94	169	9.43
C-I-3-S	03-Oct-06	1,150	20.54	7.93	175	9.44
C-I-3-D	15-Nov-06	1,960	20.61	8.69	99	9.13
C-I-3-M	15-Nov-06	2,780	19.94	8.75	96	9.20
C-I-3-W	15-Nov-06	2,860	20.50	8.74	97	8.63
C-I-3-D	19-Dec-06	1,200	11.77	8.31	211	11.10
C-I-3-M	19-Dec-06	1,200	11.98	8.32	213	11.34
C-I-3-W C-I-3-S	19-Dec-06	1,130	12.04	8.33	213	11.11
		·				
C-MAR-M	13-Dec-05	1,340	11.60	8.09	165	11.06
C-MAR-D	19-Jan-06	1,350	11.31	8.55	224	10.20
C-MAR-M	19-Jan-06	1,390	11.31	8.54	223	9.77
C-MAR-S	19-Jan-06	1,390	11.35	8.54	224	10.08
C-MAR-M	23-Mar-06	972	13.86	7.22	157	12.39
C-MAR-D	15-Jun-06	900	29.32	7.18	143	4.95
C-MAR-S	15-Jun-06	900	29.75	7.05	144	6.05
C-MAR-M	03-Oct-06	1,210	23.66	7.76	166	9.73
	16-Nov-06	3,240	18.21	7.02	124	8.52
	19-Dec-06	2,700	10.64	8.22	205	11.30
C-NR1-D	14-Dec-05	980	12.60	7.24	212	11.55
C-NR1-M	14-Dec-05	908	12.60	7.91	211	11.39
C-NR1-S	14-Dec-05	896	12.60	8.13	204	11.46
C-NR1-D	18-Jan-06	1,100	12.35	8.67	241	12.00

TABLE 8Field Water Quality Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Landin	Sampling	Specific Conductance	Temperature		ORP	Dissolved Oxygen
Location	Date	(µS/cm)	(°C)	рН	(mV)	(mg/L)
	face Water Station					
C-NR1-M	18-Jan-06	896	12.63	8.73	238	10.35
C-NR1-S	18-Jan-06	890	12.92	8.84	235	11.45
C-NR1-D	22-Mar-06	1,120	13.94	8.26	200	11.20
C-NR1-M	22-Mar-06	1,140	14.10	8.25	205	11.00
C-NR1-S	22-Mar-06	1,140	14.23	8.25	206	11.01
C-NR1-D	16-Jun-06	920	25.67	6.93	118	6.65
C-NR1-M	16-Jun-06	910	25.90	6.91	117	6.50
C-NR1-S	16-Jun-06	900	26.90	6.90	117	4.32
C-NR1-D	04-Oct-06	1,300	20.28	7.64	190	9.58
C-NR1-M	04-Oct-06	1,290	20.26	7.84	170	9.13
C-NR1-S	04-Oct-06	1,290	20.39	7.89	170	9.26
C-NR1-D	16-Nov-06	1,520	19.33	7.21	149	9.10
C-NR1-M	16-Nov-06	1,700	19.23	7.25	145	8.98
C-NR1-S	16-Nov-06	1,720	19.67	7.27	142	8.67
C-NR1-D	19-Dec-06	1,770	12.55	8.32	198	12.31
C-NR1-M	19-Dec-06	2,330	12.24	8.37	196	12.61
C-NR1-S	19-Dec-06	1,920	12.13	8.38	197	12.31
C-NR3-D	14-Dec-05	908	12.50	8.26	192	11.59
C-NR3-M	14-Dec-05	878	12.60	8.31	189	11.46
C-NR3-S	14-Dec-05	860	12.60	8.34	188	11.54
C-NR3-D	18-Jan-06	1,100	12.37	8.69	235	12.24
C-NR3-M	18-Jan-06	1,100	12.35	8.69	236	10.76
C-NR3-S	18-Jan-06	1,100	12.35	8.85	234	10.69
C-NR3-D	22-Mar-06	1,140	13.56	8.22	188	11.04
C-NR3-M	22-Mar-06	1,160	13.65	8.19	199	10.97
C-NR3-S	22-Mar-06	1,120	13.71	8.23	205	10.96
C-NR3-D	16-Jun-06	940	25.54	6.85	123	6.84
C-NR3-M	16-Jun-06	910	24.94	6.85	118	6.90
C-NR3-S	16-Jun-06	920	25.43	6.86	118	6.11
C-NR3-D	04-Oct-06	1,290	20.49	7.93	166	9.77
C-NR3-M	04-Oct-06	1,290	20.42	7.99	169	9.35
C-NR3-N	04-Oct-06	1,300	20.42	7.99	171	9.41
				7.99 7.21		9.41
C-NR3-D C-NR3-M	16-Nov-06 16-Nov-06	1,530	19.38		153 160	
		1,380	19.19	7.14		9.01
C-NR3-S	16-Nov-06	1,490	19.10	7.17	156	8.82
C-NR3-D	19-Dec-06	2,010	12.27	8.32	204	12.68
C-NR3-M	19-Dec-06	1,690	12.16	8.35	204	12.70
C-NR3-S	19-Dec-06	1,170	12.40	8.36	204	12.15
C-NR4-D	14-Dec-05	873	12.50	8.33	181	11.60
C-NR4-M	14-Dec-05	862	12.50	8.34	180	11.40
C-NR4-S	14-Dec-05	857	12.50	8.35	179	11.42
C-NR4-D	18-Jan-06	915	13.12	8.26	216	10.27
C-NR4-M	18-Jan-06	1,130	12.14	8.60	214	10.35
C-NR4-S	18-Jan-06	1,100	12.31	8.78	222	11.00
C-NR4-D	22-Mar-06	1,100	12.81	8.14	192	10.92
C-NR4-M	22-Mar-06	1,130	13.23	8.28	182	10.87

TABLE 8Field Water Quality Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

	Sampling	Specific Conductance	Temperature		ORP	Dissolved Oxygen
Location	Date	(µS/cm)	(°C)	рН	(mV)	(mg/L)
In-Channel Surf	ace Water Station					
C-NR4-S	22-Mar-06	1,130	13.30	8.29	185	10.92
C-NR4-D	16-Jun-06	1,110	25.28	6.31	161	7.09
C-NR4-M	16-Jun-06	960	22.92	6.64	121	6.91
C-NR4-S	16-Jun-06	950	22.78	6.78	112	6.77
C-NR4-D	04-Oct-06	1,300	20.52	8.06	168	9.68
C-NR4-M	04-Oct-06	1,330	20.62	8.02	169	9.48
C-NR4-S	04-Oct-06	1,340	20.73	8.09	171	9.49
C-NR4-D	16-Nov-06	1,280	18.88	7.10	213	8.54
C-NR4-M	16-Nov-06	1,310	19.51	7.11	175	8.67
C-NR4-S	16-Nov-06	1,310	19.00	7.12	184	8.68
C-NR4-D	20-Dec-06	1,260	11.38	7.70	243	10.59
C-NR4-M	20-Dec-06	1,220	11.61	7.88	243	10.51
C-NR4-S	20-Dec-06	1,210	11.63	8.09	240	10.52
C-R22-D	13-Dec-05	1,060	12.70	8.24	164	10.98
C-R22-M	13-Dec-05	1,060	12.70	8.24	163	10.96
C-R22-S	13-Dec-05	1,060	12.70	8.25	163	10.85
C-R22-D	19-Jan-06	946	11.87	8.76	216	10.39
C-R22-M	19-Jan-06	944	11.65	8.80	210	9.52
C-R22-W	19-Jan-06	938	11.58	8.80	217	10.53
C-R22-D	23-Mar-06	835	14.24	8.65	131	10.96
C-R22-M	23-Mar-06	838	14.24		131	10.16
				8.67		
C-R22-S	23-Mar-06	840	14.35	8.68	133	10.56
C-R22-D	15-Jun-06	950	20.23	7.03	137	8.60
C-R22-M	15-Jun-06	940	20.03	7.03	138	7.82
C-R22-S	15-Jun-06	940	19.95	7.04	138	6.72
C-R22-D	03-Oct-06	1,250	20.15	7.23	163	9.16
C-R22-M	03-Oct-06	1,170	20.24	7.66	150 150	9.33
C-R22-S	03-Oct-06	1,160	20.12	7.80	158	9.07
C-R22-D	15-Nov-06	2,150	20.70	8.77	98	9.18
C-R22-M	15-Nov-06	3,390	20.34	8.83	95 97	9.24
C-R22-S	15-Nov-06	3,210	21.01	8.77	97	8.59
C-R22-D	19-Dec-06	1,190	11.95	8.36	209	11.28
C-R22-M	19-Dec-06	1,160	11.93	8.35	211	11.20
C-R22-S	19-Dec-06	1,150	11.97	8.40	211	11.22
C-R27-D	13-Dec-05	1,070	13.00	8.26	156	12.38
C-R27-M	13-Dec-05	1,060	12.90	8.26	155	11.12
C-R27-S	13-Dec-05	1,070	13.00	8.27	155	10.89
C-R27-D	19-Jan-06	1,180	12.25	8.60	226	10.28
C-R27-M	19-Jan-06	941	12.05	8.67	222	9.83
C-R27-S	19-Jan-06	939	12.20	8.78	219	10.70
C-R27-M	23-Mar-06	848	14.28	8.47	126	11.69
C-R27-D	15-Jun-06	950	19.75	6.93	138	8.46
C-R27-M	15-Jun-06	940	19.85	6.94	139	9.48
C-R27-S	15-Jun-06	950	19.85	6.96	140	7.51
C-R27-D	03-Oct-06	1,210	21.31	7.94	174	9.76
C-R27-M	03-Oct-06	1,140	21.49	8.00	168	9.07

TABLE 8Field Water Quality Measurements, December 2005 through December 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	рН	ORP (mV)	Dissolved Oxygen (mg/L)			
In-Channel Surface Water Station									
C-R27-S	03-Oct-06	1,150	21.45	7.95	165	9.54			
C-R27-D	15-Nov-06	1,760	20.88	7.32	116	9.99			
C-R27-S	15-Nov-06	2,080	19.77	7.34	117	9.56			
C-R27-M	19-Dec-06	1,180	12.02	8.36	216	11.36			
C-TAZ-D	13-Dec-05	1,090	12.60	7.57	190	11.11			
C-TAZ-M	13-Dec-05	1,060	12.50	8.04	186	11.03			
C-TAZ-S	13-Dec-05	1,060	12.50	8.13	181	11.04			
C-TAZ-D	19-Jan-06	1,220	12.18	8.08	212	10.60			
C-TAZ-M	19-Jan-06	1,190	11.86	8.46	203	9.98			
C-TAZ-S	19-Jan-06	1,160	11.64	8.71	204	10.13			
C-TAZ-D	23-Mar-06	834	14.60	8.72	138	11.60			
C-TAZ-M	23-Mar-06	835	14.76	8.70	139	11.54			
C-TAZ-S	23-Mar-06	833	15.10	8.71	140	11.61			
C-TAZ-D	15-Jun-06	900	28.71	7.19	135	5.22			
C-TAZ-M	15-Jun-06	910	28.18	7.13	137	3.46			
C-TAZ-S	15-Jun-06	910	28.53	7.11	143	3.37			
C-TAZ-D	03-Oct-06	1,190	20.38	7.86	164	10.12			
C-TAZ-M	03-Oct-06	1,170	20.36	7.93	165	9.72			
C-TAZ-S	03-Oct-06	1,170	20.38	7.94	168	9.21			
C-TAZ-D	15-Nov-06	2,350	20.63	8.68	99	8.60			
C-TAZ-M	15-Nov-06	2,100	19.96	8.66	101	8.84			
C-TAZ-S	15-Nov-06	1,900	19.89	8.56	107	8.82			
C-TAZ-D	19-Dec-06	1,140	11.78	8.15	210	10.94			
C-TAZ-M	19-Dec-06	1,120	11.79	8.31	215	11.08			
C-TAZ-S	19-Dec-06	1,120	11.83	8.35	217	11.07			

NOTES:

µS/cm microSiemens per centimeter

ORP oxidation reduction potential, results rounded off to whole point

mV millivolts

mg/L milligrams per liter

(---) data not collected, not available, or rejected

All field measurements were collected during groundwater / surface water sampling using a Horiba U-22 water quality meter and/or Orion pH/ORP meter.

Surface water station RRB was not sampled in January 2006 due to the location being dry.

Field parameters from MW-33-40 in March 2006 were not available due to the well being purged dry before readings could be collected.

Specific conductance values for some of the shoreline surface water samples in March 2006 were not available due to a malfunctioning instrument.

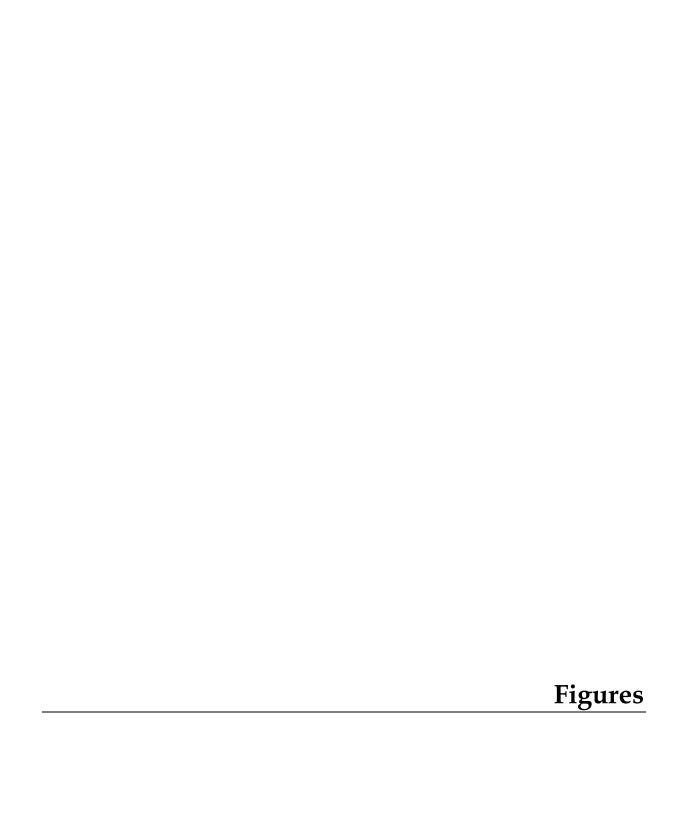
Monitoring wells MW-12 and MW-29 were sampled in April rather than March 2006 due to inaccessibility to the wells from drilling operations in March.

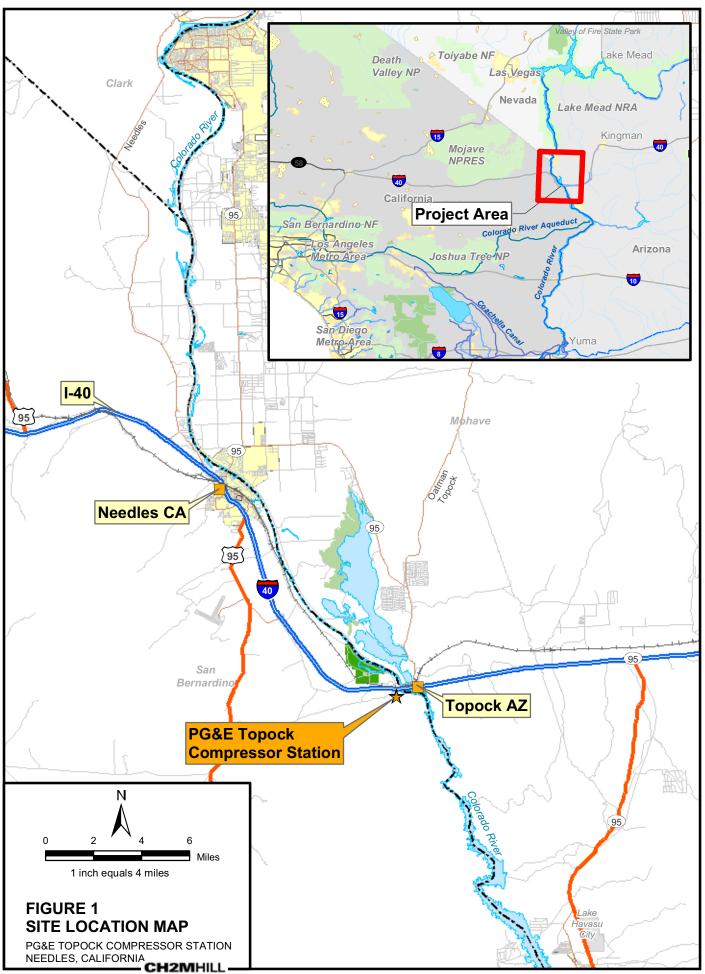
TABLE 9
Summary of 2006 Quarterly Monitoring Activities
Topock Groundwater and Surface Water Monitoring Program
PG&E Topock Compressor Station

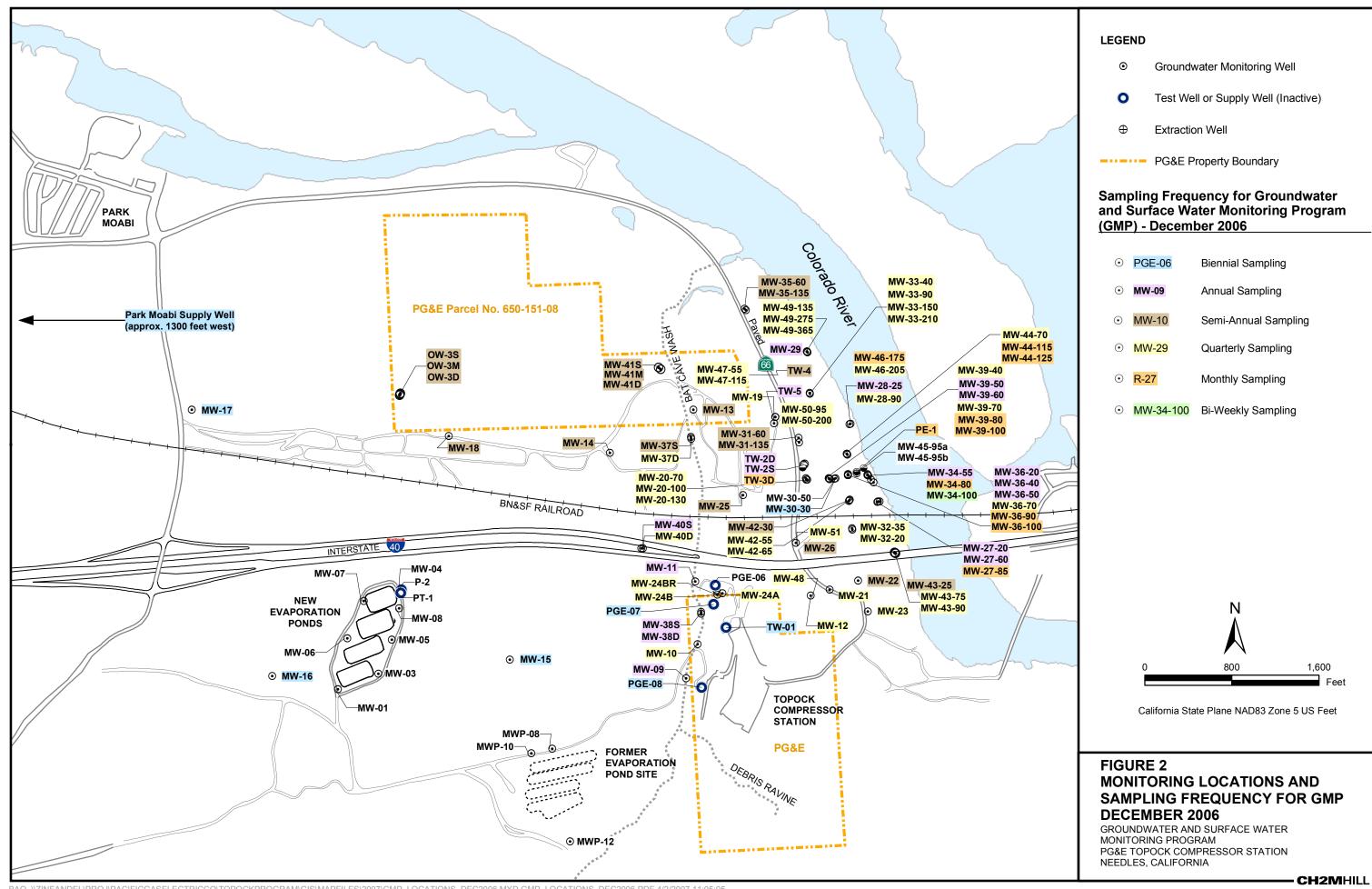
Analytical Parameters	1st Quarter Event	2nd Quarter Event	3rd Quarter Event	4th Quarter Event
Sampling Dates	March 6-16, 2006	May 1-9, 2006	October 2-13, 2006	December 11-15, 2006
	74 monitoring wells	69 monitoring wells	92 monitoring wells	48 monitoring wells
COCs	9 shoreline surface water locations			
	9 in-channel surface water stations			
Title 22 Metals	9 monitoring wells	9 monitoring wells	9 monitoring wells	6 monitoring wells

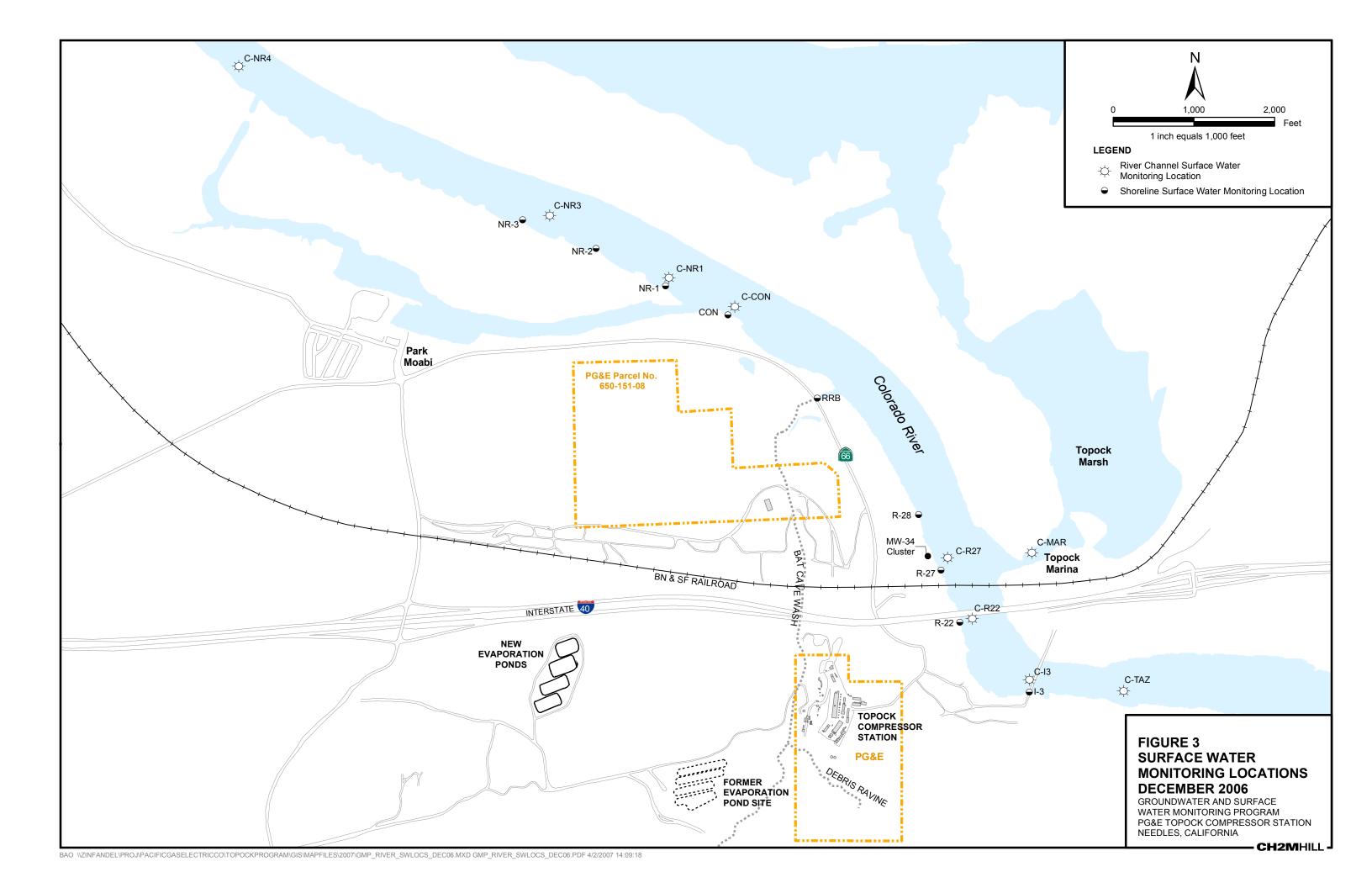
Notes:

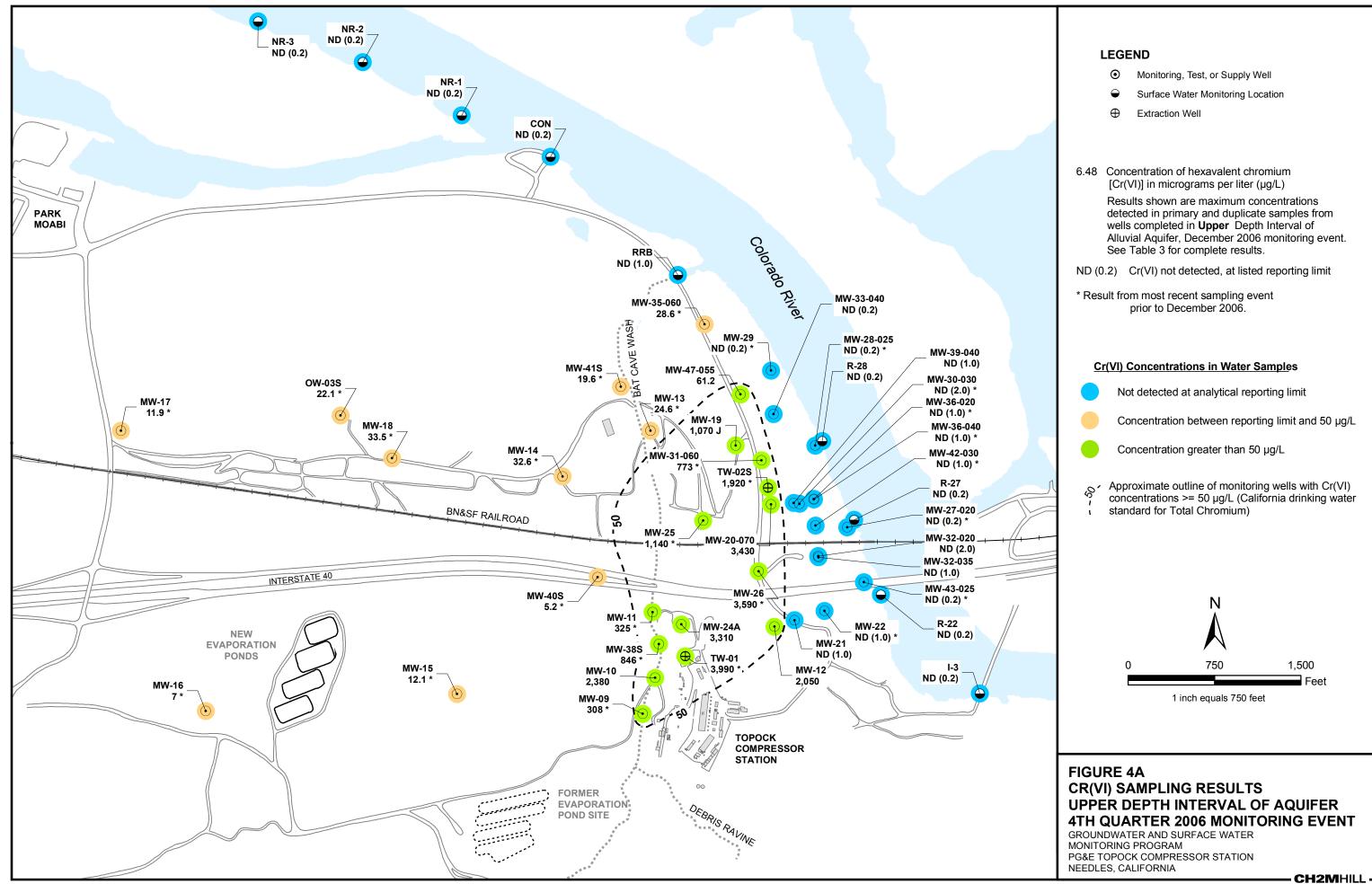
Constituents of Concern include hexavalent chromium, total chromium, pH, and specific conductance.

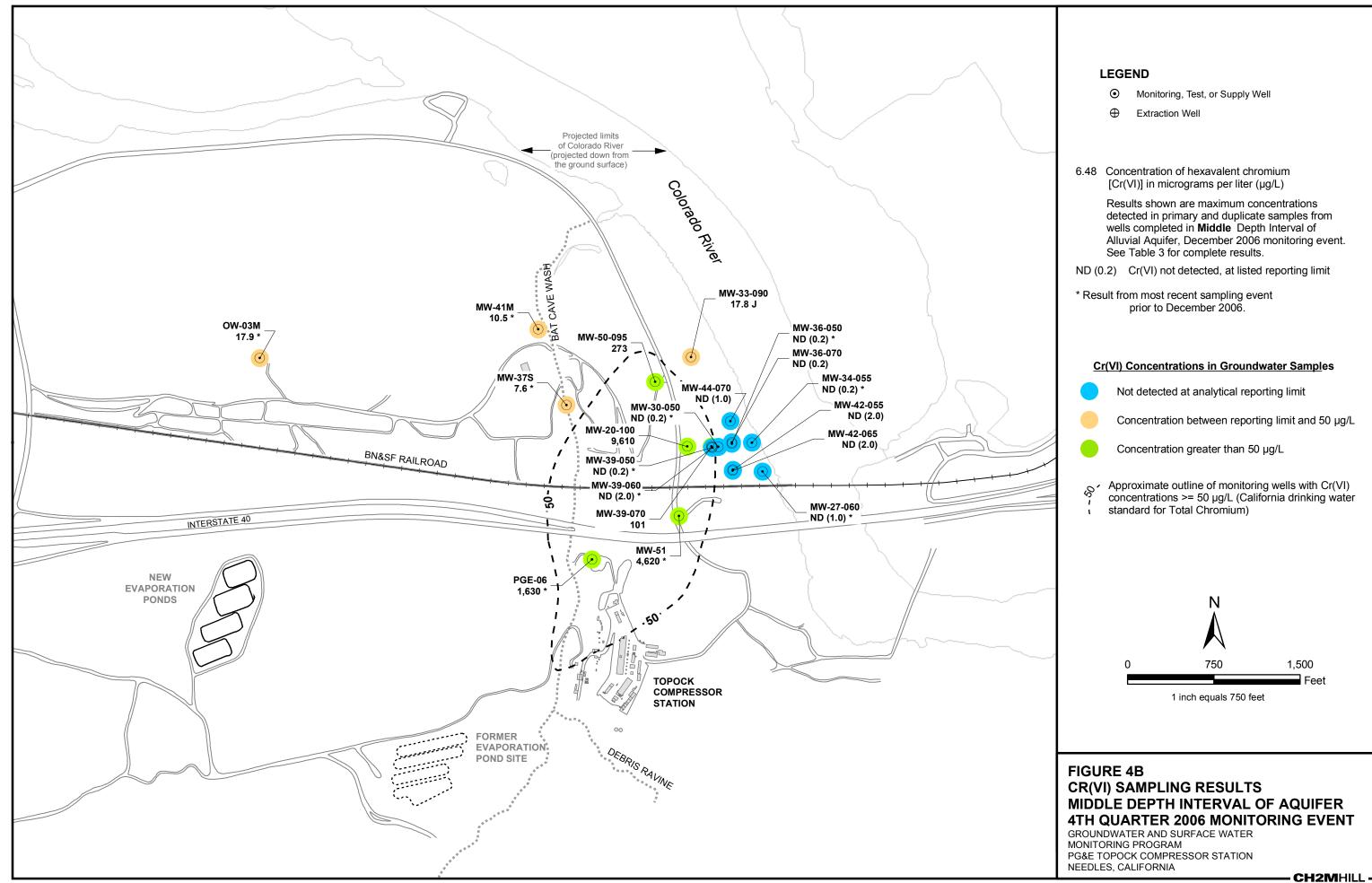


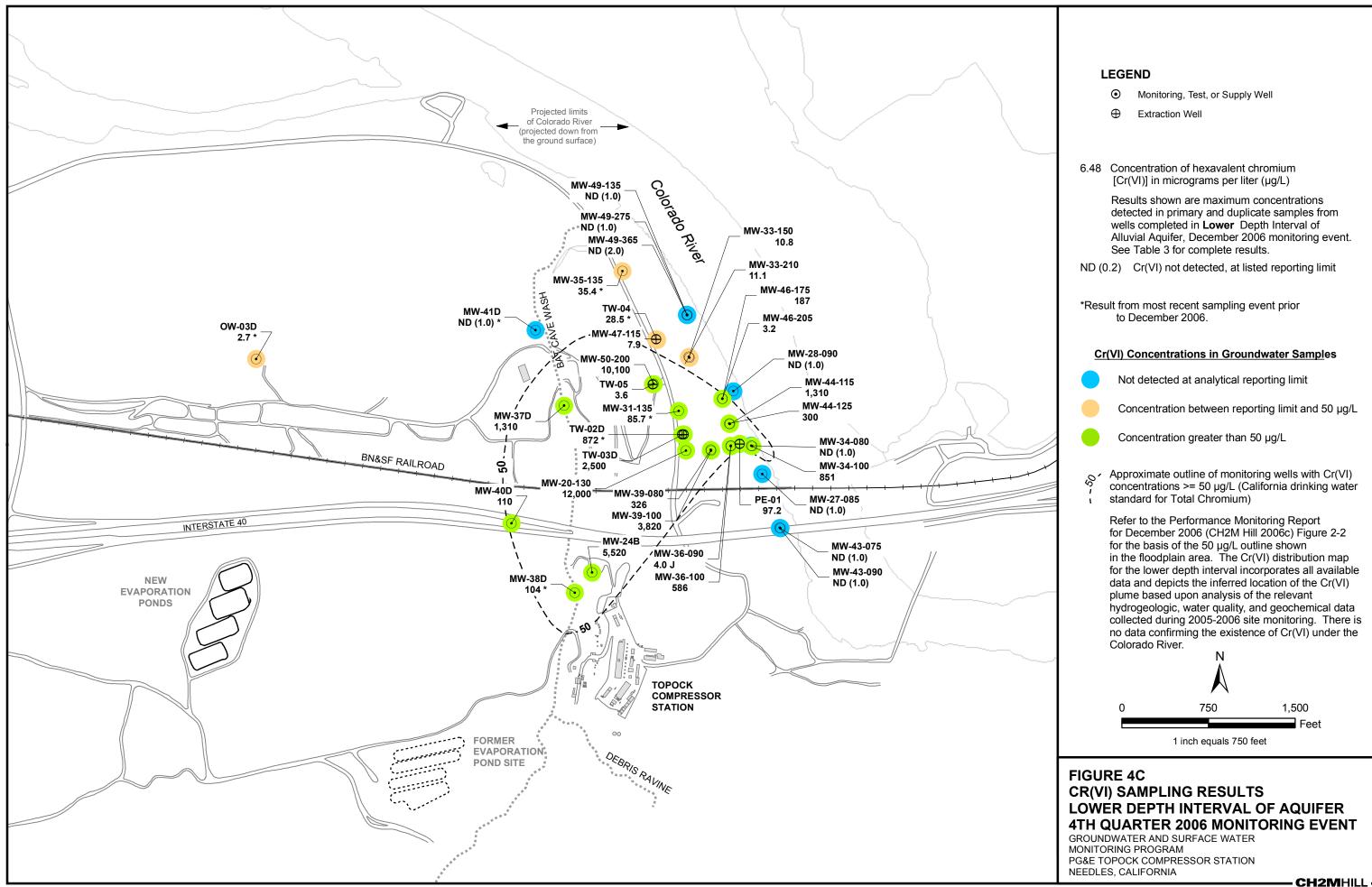


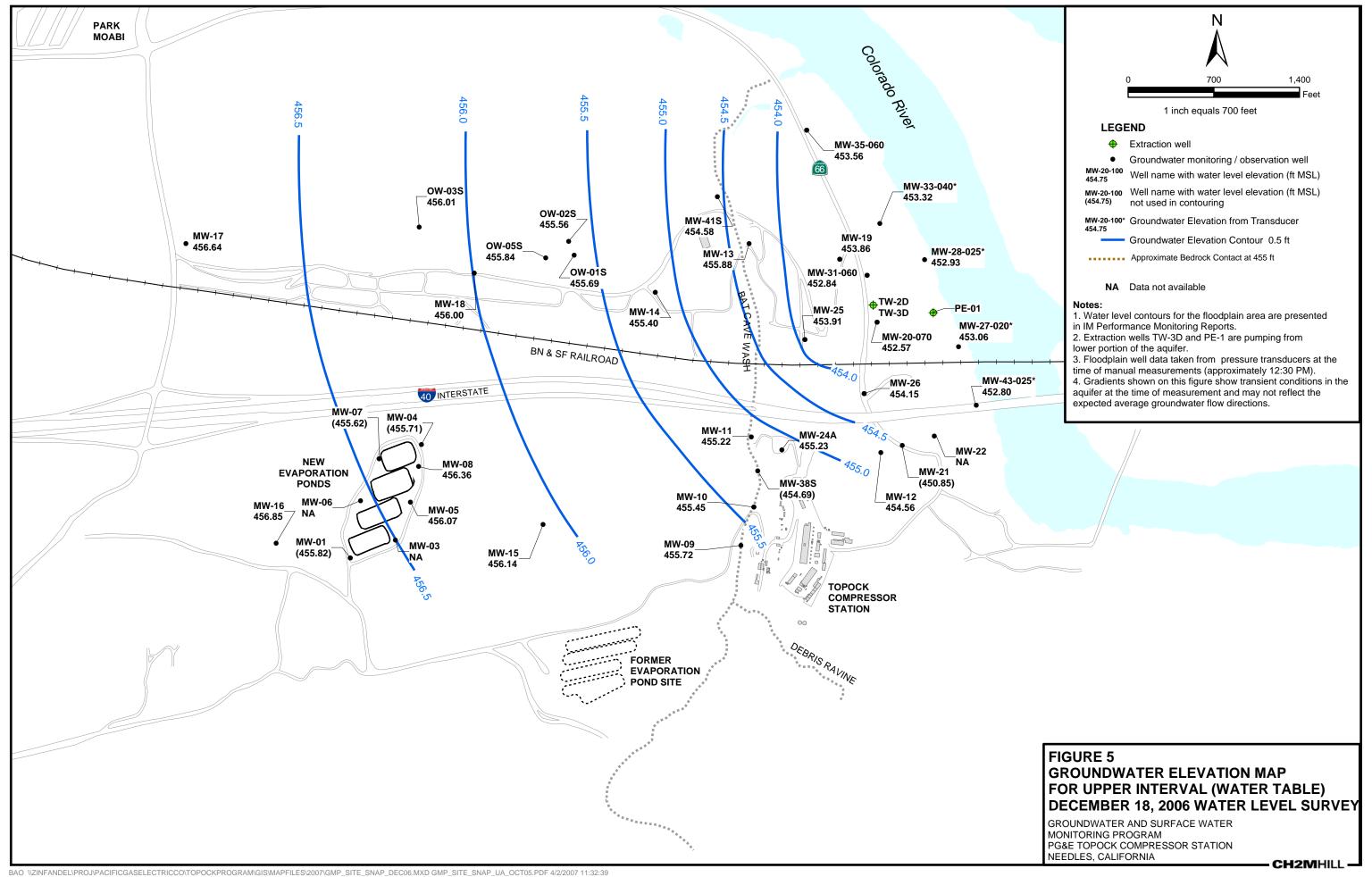


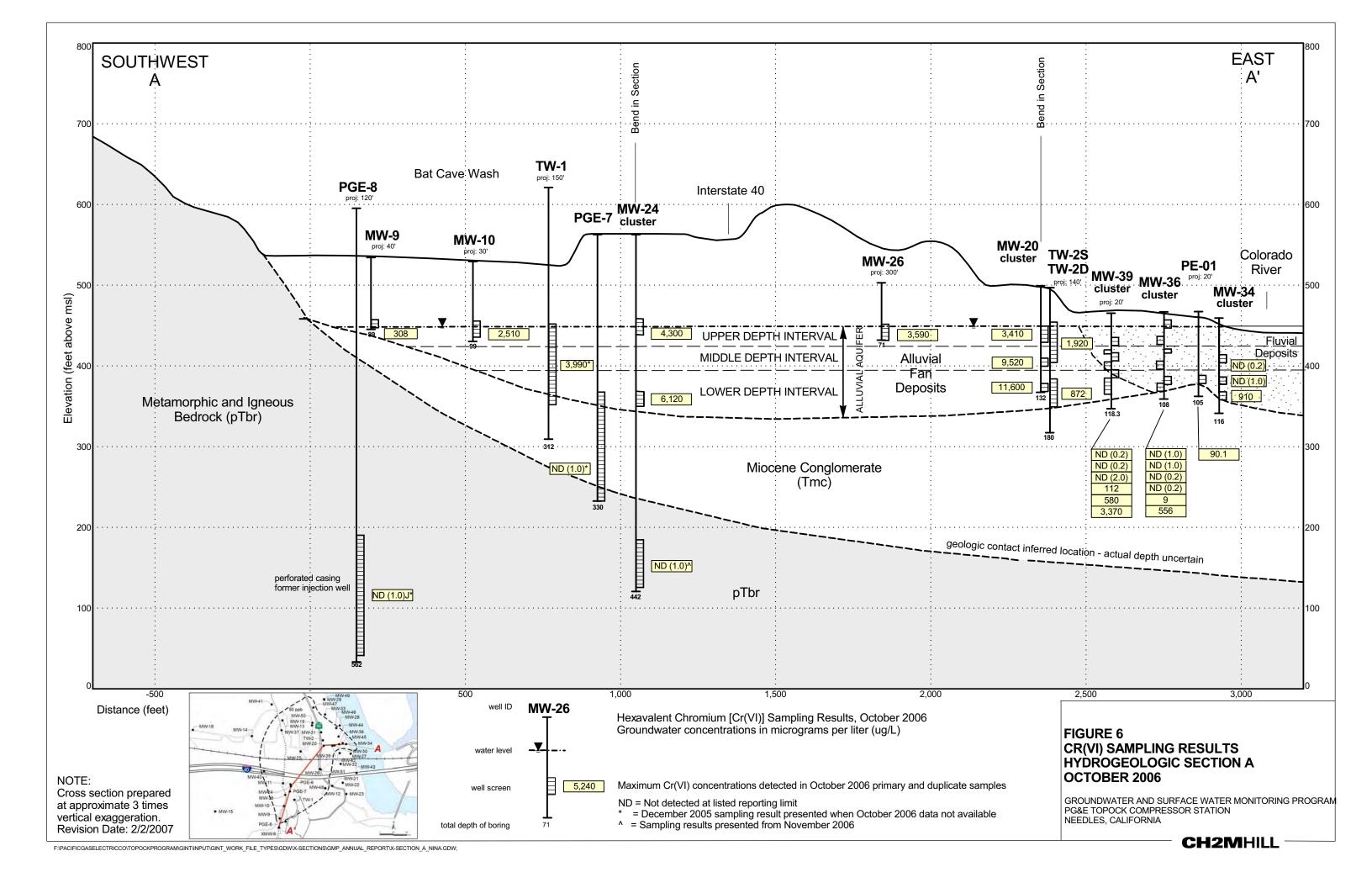












Appendix A Field Data Sheets and Chain of Custody Records, December 2006

Project Na Job Nun		Topock GMP 4.GM.02.00					Sampling	g Event _ Date	2006-GN		
Field To	00020		Field Condition	ins 6 unn	y, Calm	1600F		Page	of		
Well/Samp		mw-10			a topic medical re-	mple ID NA				QC Sample	Time
Purge Start	Time	319		Min.	Purge Purge Volume	Method (gal)/(L) 5	O P	Ded. Pu urge Rate (gpm)/(mLpn	1)_5	
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
75.10	1319	0	7.67	2.88	2.20	4.89	27-99	0.1	2.0	117	areonsh
75.65	1321	10	7.64	2.53	3.38				1.6	113	
75.65	1323	20	7.62	2.46	5.85		29.12		1.7	114	
15.65	1325	30	7.59	2.84	2.27	5.35			1.8	117	
75.60	1327	40	7.57	2.86	2.13	5.57	29.38		1.8	120	
75.58	1329	50	7.57	2.88	2.54				1.8	121	
5.58	1331	60	7.57	2.90	2.36	5.07	the second secon		1.9	122	
			+/- 0.1 pH units	+/- 3%	+/- 10% NTU	+/- 0.3	NA	NA	NA	+/- 10 mV	
arameter Sta	abilization Cri	teria	pri units		units when >10 NTUs	mg/L		51			
d Parameters S	Stablize prior to s	ampling?		HAT THE			NA				
evious Field m	September 1997	()									
ample Time	nts consistent wit	Sample Location	on: pu	Imp tubing	well port	spigo	NA et	bailer	other		1 847
itial Depth to	Water (ft BTO	c):_ 75	10		Measu	re Point: We	II TOC) SI	eel Casing	WATE		Pare zoo 5-0 2 ter serial number:
eld measured	d confirmation	of Well Depth (ft			_				NA	If 7	ransducer
	h - from datab	With the World Control of the			_	V / Before Remo			in After Rei		Time of Removal
	177	t) = WD-Initial De			Time	Initial DT	W	Time	Fi	nal DTW	Time of Reinstallation
The second	no monte monte	2"= 0.17, 4"= 0.66	5, 1"=0.041		Comment			1			
ree Casing \		S Ø	\bigcirc		Comments	sulphur, organi			2.11. E	D	, Med Qu, Large Qu, Particulate, Silt, Sand

									A CONTRACTOR OF THE PARTY OF TH	ARTER DESIGNATION OF THE PARTY	ammon or second cold
Project N		Fopock GMF	7	111111111111111111111111111111111111111	Designation of the control of the co		Sampling	Event _	2006	Gup	115-24
	Team	1	Field Condition	ns Suni	y windy	· 25#		Date		13)200	6
and the same of th											
Well/Sam	nple Number	mw-12	-112			MA CI elqm			4	QC Sample	Time
Purge Star	t Time 09	45			Purge	Method Hob?	le ready	MoDad. Pu	mp 🥒	///	-
	Flow Cel			Min	. Purge Volume				gpm)/(mLpm		
Water Level	Time	Vol. Purged gallons / liters	pН	Conductivity mS/cm	Turbidity N°U	Diss. Oxygen mg/L	Temp.	Salinity 1%	TDS g/L	EMORP mv	Comments (See description below
99.45	0945	0	8.20	4.87	2,94	6	26.00	0.3	3.1	187	
	0947	7	8.26	4.69	77.5	6.28	27.13	0.2	3	155	
	0950	.14	8.25		West and the second sec		27.35		3	154	
29.75		21	8-23		111 +.++	6.24	27.47	1	3	154	
29.75		28	8.24	4.65			27.40	0.2	3	154	
29.76		35	8.24	4.64	20.4	6.19	27.57	0.2	3	154	
29.76		42	8.24	4.66	12.8		27.53	0.2	3	155	
					What are all the control of the cont	The state of the s			- WANTED		
Parameter S	Stabilization Cri	teria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when > 10 NTUs	+/- 0.3 mg/L	NA	VA	NA	+/- 10 mV	
	s Stablize prior to s			V	N	V	NA.	V	~	V	
	ents consistent wit		V	MA	K	I V	NA	V	NA	V	Commission of the Commission o
Sample Time	10:05	Sample Location	on: 4W-12-pu	mp tubing	wall port	spigo	t	baller	other		
Comments: _					<i>-</i>		* * *		•		
Initial Depth t	o Water (ft BTO	.c): 29.	45		Meası	ure Point: Wel	TOC St	eel Casing	WATE	R LEVEL ME	PG E - 200 5-02 TER SERIAL NUMBER:
	pth - from table)	SOME CONTRACTOR OF THE STATE OF	0.4						N	A If T	ransducer
Harris I self Criss- Criss Mark		t) = WD-Initia I De	U. Table	0.95	Initial DTV	V / Before Remo	oval A	Арргск. 5 п	in After Reir		Time of Removal
		2"= 0.17, 4"= 0.66		(4 in)	Time	Initial DT		Tinte	Fir	nal DTW	Time of Reinstallation
4	Volume = D*SW	H	13. 83		9:45	29.45		\			
ACCUMANTAL SOCIETY OF THE SECTION OF	y Volumes =	41.			Comments	:					
Color: clea	grev, yellow, br	own, black, cloud	ly, green		Odor: ne	sulphur, organi	c, other	1	Solids: Tra	aca, Small Qu,	Med Qu, Large Qu, Particulate, Silt, Sand

Color: clear, grey, yellow, brown, black, cloudy, green

										TOPOOR	Crattle 1 il 2 2 2	
Project N Job Nu		opock EMF	2				Sampling	Event	2006		-115- Q4	
Field 1	Feam 🥒		Field Condillo	ne you	du			Page	of			
Well/Sam	ple Number	mw-z	0-070		X	Alf Of elgm				QC Sample	Time	
Purge Star		13:12			Purge	Method	esicoles p	Dad. Pu	mp			
. orgo ora	Flow Cel(Y)	The state of the s		Min.		(gal)/(L) 4 (gpm)/(ml.pm	_		
Water Level	Time	Vol. Purged	pH	Conductivity mS/cm	Turbidity IN**U	Diss. Oxygen mg/l.	Temp.	Salinity 1%	TDS g/L	Eh/ORP mv	Comments (See description below	
42.12	13:12	0	7.42	2.88	5.73	7.84	28.63	0.1	1.4	199	Geensu	
58.2	13:13	9	7.47	7.87	39.4	7.88	28.71	0.1	1.8	200		
59.2	13:14	1.8	7.45	2.86	\$19.9		28.72	0.1	1.8	201		
79.87	Charles and County States of Control of the Control of	27	7.45	2.87	10.4	7.56	28.73	0/	1.8	20/		
60.53	13:16	36	7.45	2.83	6,90		28.78	0.1	1.8	201		
63.63	and the same of th	. /	7.45		63.5.1		29.10		1.9	203		
63.03	13.67		7.1.				/					
Parameter S	tabilization Cri	teria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	VA	NA	+/- 10 mV		
Did Parameters	Slablize prior to s	sampling?	V	V	<u> </u>		NA		W	V		
	ents consistent wit		V	N			NA NA) <u> </u>			
Sample Time Comments:	13:20	Sample Location	w_10-05	mp tubing	hod llew	ogic s	t	baller	other			
	in militaria	2000								-		
1.7	o Water (ft BTO	-,-	7.12		_ Measu	re Point: 'Vei	TOC) St	eel Casing	, 11	R LEVEL ME	TER SERIAL NUMBER:	
		ft btc 69. 5		2 2	N/A If Transducer							
Control of the Contro	ACTION AND PROPERTY OF A STATE OF	t) = WD-Initial De		2.43 14 int	Time Initial DTM Time Final DTM							
4		2"= 0.17, 4"= 0.66	5, 1"=0.04 46.46		13:12			1,111,4	1		Time of Reinstallation	
Cine Casing V Three Casing	/olume =: D*SW Volumes =	44.	4		Comments:							
		own, black, cloud			Oder: (on)	sulphur, organi	c, other		Solids: Tra	ace, Small Qu	, Med Qu, Large Qu, Particulate, Silt, Sand	

			2000 II			eracental transport and the second			Annual Street of the Control of the	, 5000110		
Project N Job Nu		Topock (GM/	9	2 mm 1 mm 2 mm 2 mm 2 mm 2 mm 2 mm 2 mm	Annual that Improvement	The same position and positions	Sampling	Event _	2006	(13(Z	115-84	
Field	Team		Field Condillo	ns Sunn	4,60 F			Page	/ of			
Well/Sam	ple Number	mw-20.				mple ID M	W-90	-115		QC Sample	Time 11:50	
	t Time	(5)			Purge	Method Sedi	coted	Dəd. Pu	mp			
, 2.3	Flow Cel			Min.	Purge Volume		6 P	irge Rate (jpm)/(mLpm	9	And the second s	
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity N°*U	Diss. Oxygen mg/l.	Temp. oC	Salinity 1%	TDS g/L	Et/ORP mv	Comments (See description below	
42.95	11:33	0	729	3.49	10.8	4.21	28.28	0.2	2.2	196		
69.3	11:35	20	7.54	3,47	2.45	3.25	28.43	0.2	22	197	green water	
72.6	11:37	40	7.47	3.49	2.58	3.29			2,2	197	0	
	11:39	60	7.42	3.57	5.19	3.24			2.3	195		
77.22		80	7.39	3.95	7.29	2.93		110000000000000000000000000000000000000	9.6	192		
78.00	11:42	90	7 39	4.40	19.6	2.73	29.14		2.8	191		
78.30		100	7.38	4.68	50.4	2.61	29.23	0.3	3.1	190		
78.60	11:49		7.37	5.01	31.8	2.43	29.14		3.2	189		
78.8	The state of the s	520	7.36	5.2	24.3	2.19	29.11	0.3	3.3	188		
7 0.0			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units	+/- 0.3 mg/L	NA	٧A	NA	+/- 10 mV		
	tabilization Cri				when > 10 NTUs		NIA.					
	Stablize prior to s ents consistent wit		V		N	\ \X	NA NA				The second secon	
an factor of the		Sample Location	on'	au tubica	Luck part	e nigo	1	bailer	other		4	
Comments:		, Gampio Locotti	4w20 - 8	mp tubing	well port	Sigo		Ozine)	Obio			
witial Depth to	o Water (ft BTO	C): 4	7.95		Measu	re Point: "Wel	II TOC St	eel Casing	WATE	R LEVEL MET	TER SERIAL NUMBER:	
	pth - from table)							N	14	If T	ransducer	
Alleria Mallinga Sana		t) = WD-Initial De	pth 5 3	. 45	Initial DTW / Before Removal				in After Rein		Time of Removal	
E (Volume as	per diameter) 2	2"= 0.17, 4"= 0.66		(4 cn)	Time Initial DTW Time Final DTW Time of Reinstallation				Time of Reinstallation			
	/olume =: D*SW	H	35.° 5. 83	4	11: 16 47.95 7							
Three Casing				u Shanse in	Comments				Calida: T-	sea Small Ou	Med Qu, Large Qu, Parliculate, Silt, Sand	
Color: clear,	grey, yellow, br	own, black, cloud	iy, green		Oder: Jone	sulphur, organi	c, other		301105; 178	ica, onian Qu,	Military Large Got, Ferricorate, Ort, Oarid	

Project N		Topock G-MF	2			The second secon	Sampling	Event _	2006	GMP -	115- 29
Job Ni			Field Candilla	nr (/			Date	121	13/06	and a second sec
Field	l eam		Field Conditio	ns Sunhy	,69			Page	of		
Well/Sam	ple Number	mw-2	0-130.	115			w-9			QC Sample T	Time 14:45
Purge Star	t Time 13	:37			Purge	Method Mel	12 realy	¶D∋d. Pu	ımp		
	Flow Cell	N		Min.	Purge Volume	(gal)/(L) 99	7165	irge Rate (gpm)/(mLpr	rı)3	
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity	Dìss. Oxygan mg/l.	Temp. oC	Sialinity 1%	TDS g/L	Eh/ORP mv	Comments (See description below
18.62	13:37	Ø	7.37	43.7	8.17	1.75	29.22	3	29	2/1	
4.40	13:47		1 32	799.9	2.05	0.88	29.71	74	58	201	
5.36	13:57	4260			673	The second secon	29.62		799	192	
	17.07		7.36		0.73		30		>99	188	green vader
And the Control of th	14:17						30.07	294	799	185	
	14:27			7999	0.27		30.07	222	>99	183	
	14:32			799.9	0.28	The second secon	30.09	24	799	181	Shin on water
Parameter S	tabilization Cri	teria	+/- 0.1 pH units	+/- 3%	+/- 16% NTU units when > 10 NTUs	+/- 0.3 mg/L	NA.	VA	NA	+/- 10 mV	
	Stablize prior to s		V	レ	V	· ·	NA	1	4	V	
re measureme	ents consistent wit	h previous?	N	NIA	V	N	NA	MA	-NA	N	
ample Time omments: _	14:40	Sample Location	on: -20-13	mp tubing	too llew	ogic e	t	beiler	other		
		1	1 (2	U8 67				161	14/47	CD I CVEL MET	PGPE 200)
	o Water (ft BTO oth - from table)		76					eel Casing	VVAI		er serial number:
N= W000000000000000000000000000000000000		t) = WD-Initial De		9.428	3.7 Initiat DTV	V / Before Remo	oval	opprex. 5 m	nin After Rei		Time of Removal 13:27
7/7	W 20 1	2"= 0.17, 4"= 0.66	P.1.	(414)	Time	Initial DT	w	Time	Fi	nal DTW	Time of Reinstallation / 4:49
20	/olume == D*SW	2	2.87	55.26	13:2	7 48.6	2 1	4:51	4	8.72	
nree Casing	Volumes =		97.4	7 /65	_ Comments:						
olor: clear.	grey, yellow, br	own, black, cloud	V.,green		Odor: none,	sulphur, organi	c, other		Solids: Ti	aca Small Qu, I	Med Qu, Large Qu, Particulate, Silt, Sand

Page 1 cf 5

Color: clear, grey, yellow, brown, black, cloudy, green

										Topock S	Sampling Log
Project l	vaine PGE	Topock GMP					Sampling	Event	2006-GN	1P-115-Q4	
Job N	umber 33823	34.GM.02.00						Date	12	.12.06	6
Field	Team 1		Field Condition	Sunn	4, Slighte	vercost 4	OF	Page	of		
Well/San	nple Number	MW-23-115			QC Sa	mple ID MW	V-91-115			QC Sample	Time / /: 0 0
Purge Sta	rt Time 🕺	:16		0	Purge	Method Dedic	sted pu	Ded. Pu	ımp _ V	S1040 240 340 74 254	
	Flow Cell Y	/ N		Min	. Purge Volume	920 92) / Pi	rge Rate (gpm)/(mLpn	n) 6	**************************************
Water Level	Time	Vol. Purged gallons / liters	pН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
53.25	8:16	Ö	6.27	17.3	0.93	2.19	24.4	1	10	185	
68.8	8:17	6	6.48	16.9	1.32	24.12	24.2	•	11	155	
71.07		12	6.61	17	1.09	1. 27	23.9	1	11	149	
	8:19:	18	6.67	17.6	105	1.81	23.6	1.1	11	127	dry Techarge setura samp
	10.19.	10	0.0.		0.67	11	22.0		-11	1.	3/
	i. F.								*		
	34 %		7743			18					
							, , , , ,	-		-	
	<u> </u>								-		■ 3.5
Parameter S	Stabilization Cri	iteria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters	s Stablize prior to s	sampling?	V	V	N	N	NA	V	v	N	K)
Previous Field	AMERICA STATE OF STAT	(10/4/2006)	7.62	21200	142	6.14	30.34	1.28		40	
I	ents consistent wit		N	·N	N	. N	NA	V	NIA	N	
Sample Time Comments: _		Sample Location			well port	spigot		bailer	other		
Initial Depth to	o Water (ft BTO	c): 53	.251		_ Measu	re Point: Vell	TOO Ste	el Casing	WATE	R LEVEL MET	PG8E 2005 & 2 & ER SERIAL NUMBER:
Field measure	ed confirmation	of Well Depth (ft	btoc):		_				N	/A If Tr	ransducer
50	pth - from datab	- W	1.45)	, ,	_	/ / Before Remo		With the second state of the second	in After Reir		Time of Removal
3.5	중 중 .	t) = WD-Initial De		7. Z	_ Time	Initial DTV		Time	Fir	nal DTW	Time of Reinstallation
		2"= 0.17, 4"= 0.66		(+ 111)	7:47	53.2	.5		1		
One Casing \ Three Casing		H 18.6	4	. 10 - 27	_ Comments:						
\sim		own, black, cloud			Odor: Anna	sulphur, organic	other		Solide: Tre	ace Small Ou !	Med Qu, Large Qu, Particulate, Silt, Sand
Color: Clear,	Siek, Aellow, Dic	own, black, cloud	y, green.		Odor. Cons	Julphui, Organic	, 50161		Jonus, 110	.oo, oman wu, i	Pogo 0 of 16

Color: clear, grey, yellow, brown, black, cloudy, green

						-				Topock	Sampling Log
Project N	anie PGE	Topock GMP					Samplin	a Event	2006-GN	IP-115-Q4	
Job Nu	ımber 33823	84.GM.02.00					0.7070070 1 0.0070		2/14/06	9	
Field	Team 1		Field Condition	ons B repzy	present ,	55°F		Page _	of		1.
Well/Sam	ple Number	MW-24B-115			QC Sa	mple ID NA	0			QC Sampl	e Time
Purge Start	t Time /0 C	17			Purge	Method		Ded. Pu	mp		
•	Flow Cell			Min		(gal)/(L) 20	8 _P		gpm)/(mLpn) <u>5-</u>	6
Water Level	Time	Vol. Purged gallons / liters	pН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
109.60	1047	.0	8:02	16.6	5.21	3.97	28.71	1-0	10	25	¥
117.10	1049	10	7.84	35.2	\$.06	0.47	29.72	3.1	30	11	
117.10	1051	20	7,80	799.9	1.00	0.39	29.80	The second of the second	799	7.	
117.48	1057	30	7.79	>99.9	3.16	0.46			>99	0	
116.20		100	7.78	799.9	2.06	0.49	29.71	74.0	>99	-0	
115.45	1167	150	7.78	> 99.9	1.70	0.51	29.61		>99	-1	·
115.45	1110	1-2518		>99.9	2.36	0.57	29.79		>99	à.	
11945	1128	200	7.78	≥99.9	1.13	0.51		>4.0	299	4	
(100)		0-40			1			<u> </u>			
Parameter St	tabilization Cri	teria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA -	NA	NA	+/- 10 mV	
	Stablize prior to s		~	V		,~	NA	·	~	V	
Previous Field n	neasurement	(10/3/2006)	7.85	18700	3.98	2.72	30.38	1.1		85	
Are measureme	nts consistent with	h previous?	V	?	N	N	NA	N	7	N	
Sample Time Comments:	11720	Sample Location	on: pu	ump tubing	well port	spigol		bailer	other		
Initial Depth to	Water (ft BTO	c):	60		_ Measu	re Point: Wel	TOC St	eel Casing	WATE	R LEVEL ME	Parez 2005-02 TER SERIAL NUMBER:
		of Well Depth (ft l			_				NA	lf 7	Transducer
		ase) ft btoc(2		2//	_ Initial DTV	/ Before Remo			in After Rein		Time of Removal
		t) = WD-Initial De			_ Time	Initial DT\	N	Time	Fir	nal DTW	Time of Reinstallation
		2"= 0.17, 4"= 0.66	, 1"=0.041	(4 in)							
One Casing V	olume = D*SW	H 69			_ Comments:	r		Fi.			
Three Casing	Volumes =	200									

Color: clear grey, yellow, brown, black, cloudy, green

TOTAL Purged = 150gal. Dury rate at	Losgpm 4	-150gals Pu	no at 25	095	0 12/15/06 DTW=123.84		
Initial Depth to Water (ft BTOC): 108,33'		Point: (Well TOC)	•	P	0 12/14/06 DTW=123.84 G42 2005 - 0 Z ETER SERIAL NUMBER:		
Field measured confirmation of Well Depth (ft btoc·):	_			CA If	Transducer		
WD (Well Depth - from database) ft btoc (441)	Initial DTW	Before Removal	Approx. 5 min	After Reinstallation	Time of Removal		
SWH (Standing Water Height) = WD-Initial Depth 337.67	Time	Initial DTW	Time	Final DTW	Time of Reinstallation		
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)	_				Time of Refistaliation		
One Casing Volume = D*SWH_2 Zo	Comments:						
Three Casing Volumes = 660							

Color (clear, grey, yellow, brown, black, cloudy, green

Initial Depth to Water (ft BTOC): Field measured confirmation of Well Depth (ft btoc): NA WD (Well Depth - from database) ft btoc (80) SWH (Standing Water Height) = WD-Initial Depth D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in) One Casing Volume = D*SWH_ Three Casing Volumes =

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

1044

Comments:

6.60

1120

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Time of Reinstallation

Three Casing Volumes = -

Color; clear, grey, yellow, brown, black, cloudy, green

Page 2 of 28

Color: clear, grey, yellow, brown, black, cloudy, green

Project I	Name PGE	Topock GMP					Samplin	a Event	2006-G	MP-115-Q4		
Job N	lumber 33823	34.GM.02.00		1,000,000,000	nomin-cht			Date _	12/11/	06		
Field	Team 2		Field Condition	ons				Page _	of	B A A		
Well/Sar	mple Number	MW-32-035-11	15		QC Sa	mple ID NA				QC Sample	Time	
Purge Sta	art Time	7			Purge	Method	CV	Ded. Pu	ımp <i>_</i> /	14-2	_	
	Flow Cell(Y)	/ N		Min	. Purge Volume	(gal)/(L)	7P	urge Rate (gpm)/(mLp	m) Z		
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below	
1210	1310	6	7.89	23.5	8-87	2.58	29.13	1-44	15	-152		
10.01	1314	14	7-84	23.5	2.96	1.81	28-54	1.43	15	-148		
10.03	1318	22	7.82	23.4	1.67	1-83	28.44	1.43	15	-144		
10.03	1322	30	7.82	23.6	1.52	1.88	28.11	1.44	15	-142		
10.03	1326	38	7.83	23.6	1-74	1-73	18.01	1.44	15	-145	-	
10-03	1330	46	7-83	23.7	1.42	1.66	27.88	1.45	15	-147	flow rate has dropped below 2	
10.21					1.25	1.52	27.96	1.43	15	-148	flow rate has dropped below 20 turned back -p	
10-21	138	62	7.85	23.7	0.99	1.47	27-95	1.44	15	-149		
Parameter S	Stabilization Cri	teria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV		
	s Stablize prior to s		У	V	V	У	NA			Y		
Previous Field	measurement	(10/2/2006)	7.69		0.66	0.69	26.19			-162		
1.	nents consistent wit		Y	Х	À	À	NA			У		
	1340	Sample Locatio	n: pu	ump tubing	well port	spigot		bailer	other	\		
Comments: _	=											
5-			. 8									
Initial Depth t	to Water (ft BTO	c): 7-58			_ Measu	re Point: Wel	TOC St	eel Casing	WAT	ER LEVEL MET	ER SERIAL NUMBER:	
Field measur	Initial Depth to Water (ft BTOC): 7-58 Field measured confirmation of Well Depth (ft btoc):									If T	ransducer	
508.1	WD (Well Depth - from database) ft btoc (37.15)					/ / Before Remo		Approx. 5 m			Time of Removal	
	WH (Standing Water Height) = WD-Initial Depth					Initial DT\		Time		inal DTW	Time of Reinstallation	
	(Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)				1301	7.58		3:48		.07		
	Volume = D*SW	H_19.51	6		_ Comments:							
Three Casing	y Volumes =	S8.55										

Color: clear, grey, yellow, brown, black, cloudy, green

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Color: clear, grey, yellow, brown, black, cloudy, green

One Casing Volume = D*SWH

Three Casing Volumes = -

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041

Odor: none) sulphur, organic, other

Comments:

Project Name PGE Topo	ock GMP				Sampling	Event	2006-GN	/P-115-Q4	
Job Number 338234.G						Date	12.1	5.06	
Field Team 2	Field Condit	ons Sunny	SOF			Page	of	***************************************	*
Well/Sample Number MV				mple ID MV	V-94-115			QC Sample	Time 9:15
Purge Start Time 7:	57	-	Purge	Method Cru	ndcos	. Ded. Pur	mp —	_	7.2-
Flow Cell(Y) N		Min.	Purge Volume	(gal)/(L)	28 P	urge Rate (g	pm)/(mLpn	n) 2	- .
	ol. Purged pH allons / liters	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
33.75 7:57	0					_		-	
8:02	20					_			
33.75 8:17	\$0 6.63	9.37	5.42	5.03	77.95	0.52	6-1	177	
34.12 8:27	20 6.98	14.6	3.59	2.30	26.13	0.85	9	160	
34.15 8:37	40 7.19	14.8	2.12 0.22	2.06	25.35	_	10	146	
34.16 8:47	60 7.40		2.78	1.74	28.86	77-77-1-12-12-12-12-12-12-12-12-12-12-12-12-1	10	129	
34.15 8:57	80 7.55	14.6	2.16	1.75	28.85		9	119	
34.16 9:07	100 7.61	14.5	2.06	1.74	28.93		9	114	
34.16 9:12	108 7.65	14.6	1.67	1.74	28.59		9	110	
Parameter Stabilization Criteria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to samp	ling?	V	~	ン	NA	V	V	V	-
	/6/2006) 7.47	12500	0.47	0.95	27.28	0.72			
Are measurements consistent with pre	vious?	M	レ	N	NA	L	\sim	~	14
Sample Time 9:13 Sa	ample tocation:	ump tubing	well port	spigot		bailer	other		
Initial Depth to Water (ft BTOC): 3 3. 75 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:									
Field measured confirmation of W	CONTRACTOR		If Transducer						
WD (Well Depth - from database) SWH (Standing Water Height) = \		1.53	Initial DTW / Before Removal Approx. 5 min After Reinstallation Time of Removal 7:58						
D (Volume as per diameter) 2"= 0		AND IN CONTRACT OF	Time Initial DTW Time Final DTW Time of Reinstallation 9:25						
One Casing Volume = D*SWH	3 5. 99		Comments:	٠٠٠ د د	. : د ۱	,,50		- 6 1	
Three Casing Volumes = ——	107.9	7	- Locumento.		50				***************************************
Color: clear grey, yellow, brown,	black, cloudy, green		Odor: fond,	sulphur, organic	, other	9	Solids: Tra	ace, Small Qu, I	Med Qu, Large Qu, Particulate, Silt, Sand

Project I		Topock GMP					Samplin	g Event	2006-GI	/P-115-Q4	
Job N	lumber 3382	34.GM.02.00						Date	12/13/	06	
Field	Team 2		Field Conditi	ons				Page _	of		
Well/Sar	mple Number	MW-33-150-1	15		QC Sa	mple ID NA				QC Sample	e Time
Purge Sta	irt Time 135	5			Purge	Method 3	(V_	Ded. Pu	ımp <u> </u>	14	-
	Flow Cell: Y	/ N		Min	. Purge Volume	(gal)/(L) 6 2	<u>7 </u>	urge Rate	gppr)/(mLpi	m)	
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
37.18	1401	18	7.50	19.0	1-55	3.68	26-3	1-1	12	102	
37.22	1404	٦7	7.34	17.6	b.73	2.66	26.4	1.0	11	70	
37.02	1407	36	7.39	17.0	0.57	1.51	26.9	1.0	11	65	
37.13	1410	45	7.46	17.2	0.46	2.00	27.4	1-0	11	28	
37-17	1413	54	7.47	17.5	1.02	0.54	27.5	1.0	11	5	
37.19	1416	63	7.48	17.5	0.56	0.42	27.3	1-0	11	-3	
37.21	1419	72	2-47	17.5	0.52	0-41	27.3	1-0	11	-7	
37-21	1422	81	7.47	17.5	0.43	0.39	27.2	1.0	1(-5	
Parameter S	Stabilization Cr	iteria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameter	s Stablize prior to	sampling?					NA				
		(10/6/2006)	7.45	20500	0.62	0.91	28.1	1.24		15	L one :
Contract of the Contract of th	ents consistent wi						NA				
Sample Time Comments: _	1424	Sample Locatio 子/ほん	n: pı	ump tubing	well port	spigot	·	bailer	other		
			- M2								***************************************
Initial Depth t	to Water (ft BTO	ic):		1.2z	_ Measu	re Point: Well	TOC St	eel Casing	WATI	ER LEVEL ME	TER SERIAL NUMBER:
Field measur	ed confirmation	of Well Depth (ft I	otoc)://		_					If 7	ransducer
WD (Well De	pth - from datab	ease) ft btoc(1	55)	M	53	/ / Before Remo	val	Approx. 5 m	in After Rei	The second secon	Time of Removal 10 58
22	2 2 2	t) = WD-Initial De		5 Time Initial DTW Time Final DTW Time of Reinstallation						Print Control to Print House	
D (Volume as	s per diameter)	2"= 0.17, 4"= 0.66		(2 in) , 17		11/00-	12/13/06	1433	34	1.15	
One Casing \	Volume = D*SW	H 30-66	70.5		_ Comments:	34.22					
Three Casing	Volumes = —	649	4 61,5°		- 1350						
Color: clear	arey vellow br	own black cloud	v green		Odor: none	sulphur organic	other		Solids: Tr	ace Small Ou	Med Qu. Large Qu. Particulate, Silt, Sand

		Topock GMP 34.GM.02.00	Field Condition	ons			Samplin	Date	12/11/0	4P-115-Q4			
	1980 E	MW-33-210-1	15			mple ID NA				QC Sampl			
Purge Sta	rt Time _/00	0				Method 3 C					_		
	Flow Cell(Y)	N N		· Min.	. Purge Volume	(gal)/(L) 77.	O P	urge Rate (gpm)/(mLpr	n)			
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below		
35.23	204	26	6.95	24.5	0. z8	1-55	26-78	1.5	15	741			
35.23	1809	34.4	7-16	29.5	0 20	1.41	27.08	1-9	18	232			
35,22	1214	49	7.28	22-6	0-66	1.11	27.57	1.43	45×	221			
35,25	1819	64	6.90	26-1	0.40	1.18	31.41	1.60	17	198	-		
35.25	01	79	7-24	27-1	0-22	1-16	30.59	1.67	18	177			
35,25	1827	88	7.34	27.3	0.21	1.18	30.49	1-69	18	167			
35.25		97	7.42	27.6	0.23	1.19	30.30	1-71	18	158			
35.25	2033	106	7.43"	27.6	0-20	1-17	30.26	1-71	18	157			
			7.43										
Parameter S	Stabilization Cri	iteria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV			
	s Stablize prior to s		У	У	- V	Y	NA			У			
Previous Field		(10/6/2006)	7.27	24000	0.32	0.94	27.36	1.47		28			
3.	ents consistent wit		Y	У,	<u>y</u>	Ý	NA			N			
	11035 * (hange		on: pu	mp tubing	well port	spigot		bailer	other				
	o Water (ft BTO		-5-14 27	7.4	_ Measu	re Point: Well	TOC St	eel Casing	WATE	ER LEVEL ME	TER SERIAL NUMBER:	_	
		of Well Depth (ft	JA	- Initial DTA	/ / Defers Dame	wal .	420			Fransducer			
WD (Well Depth - from database) ft btoc (223) SWH (Standing Water Height) = WD-Initial Depth						/ / Before Remo	•	• •	in After Reir		Time of Removal		
	SWH (Standing Water Height) = WD-Initial Depth 17 1.6 D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in) 17					Time			Time Final DTW Time of Reinstallation				
	(Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041					Comments:							
Three Casing		96.70)		PT was ruised above tocupon arrived, set the brechet property								
Color: clear,	grey, yellow, br	own, black, cloud	y, green		Odor: none, sulphur, organic, other Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand								

7-10000 0000	Project Name PGE Topock GMP Sampling Event 2006-GMP-115-Q4 12/12/06												
	Team 2		Field Conditi	ons				Page _	60		-		
			15	Min			cV	Ded. Po		QC Sample	e Time	-,	
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comme (See descripti		
9.25	1018	24	7.27	8.47	21.2	1.08	20.02	0.5	5.5	28			
9.29	1025	35	7.18	8.53	7.30	0.38	20.75	0.5	5.6	2			
9.29	1032	66	7.17	15.2	0.56	0.43	21.00	0.9	10	-10			
9.31	1039	\$77	7.17	15.1	1.40	0.38	21.06		10	-15			
9.31	1046	98	7.17	45.1	0.61	0.28	21.08	The state of the s	10	-18			
9.31	1053	119	7.18	15.1	0.53	0.25	21.07	0.9	10	- 20			
9.32	1100	140	7.18	15.0	0.89	0.25	21.09		10	-22			
9.32	1105	155	7.18	15.0	1.10	0.26	21.11	0.9	10	-23			
Parameter S	Stabilization Cri	iteria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV			
	s Stablize prior to s	sampling?	Y	Y	Y	У	NA	*	-	У			
Previous Field Are measurem		(11/16/2006) th previous?	7.18	13200 Y	1.64	1.09	20.4	0.76 V		-86			
Sample Time													
	o Water (ft BTO	·	02		_ Measu	re Point: Well	TOC Ste	eel Casing	WAT	ER LEVEL ME	TER SERIAL NUMBER:		
	ed confirmation pth - from datab	of Well Depth (ft i	btoc): 4.3)		- Initial DTM	/ / Before Remo	val			0.00	Fransducer	- //	
A STATE OF THE PROPERTY OF THE PARTY.	Committee of the control of the cont	t) = WD-Initial Dep		7-28	Time	Initial DTV		pprox. 5 m	in After Re	installation inal DTW	Time of Removal	NA	
2/	100	2"= 0.17, 4"= 0.66	1006	7.02		1221		17	Time of Reinstallation	10 A			
	/olume = D*SW				Comments:				10 3150			:	

Color: clear, grey, yellow, brown, black, cloudy, green

	Project Name PGE Topock GMP Sampling Event 2006-GMP-115-Q4 Job Number 338234.GM.02.00 Date 12/12/06												
	d Team 2		Field Condit	ions									
10/10/04			771712	1				, ugo _		RECOUNTED AND			
	1950	MW-34-100-1	15			mple ID NA				QC Sampl	e Time		
Purge St	art Time	25				Method 3			ump <u>Ki</u>				
	Flow Cell: Y	/ N		Min	. Purge Volume	(gal)/(L) 5 (• P	urge Rate (gpm)/(mLp	m)_Z_			
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below		
8.10	1228	6	7.37	20-0	0.85	1.17	19.65	1.2	13	8			
8.10	1232	14	7.63	20.6	0.47	0.26	20.38	1.2	13	-13			
8.10	1236	27_	7.64	20.7	0-73	152	21.52	1.2	13	-18			
8-10	1240	30	7.63	20.8	0.46	0.24	21.83	1.3	14/	-19			
8.10	1244	38	7.63	20.9	0.49	0.24	2 1.40		14	-18			
8:10	1248	46	7.63	20.9	0.41	0.25	72.02	120	14	-17			
8:10	1253	56	7.62	21.0		0.25	21.95	1.3	14	-16			
											-		
Parameter	Stabilization Cr	riteria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV			
	ers Stablize prior to		٧	Υ	4	У	NA	-	_	У			
Previous Field	d measurement	(11/30/2006)	7.72	21900	1.83	0.93	25.62	1.33		115			
Are measurer	ments consistent w	ith previous?	У	, A	Y	Y	NA	Y		N			
Sample Time Comments:	e <u> 12<i>5</i>5</u>	Sample Location	on: p	ump tubing	well port	spigol	·	bailer	other				
	to Water (ft BTC				_ Measu	re Point: Well	ITOC St	eel Casing	WAT	ER LEVEL ME	TER SERIAL NUMBER:		
Field measured confirmation of Well Depth (ft btoc): If Transducer													
		pase) ft btoc(1	The state of the s	a 47	-19 <u>unousessureur</u>	/ / Before Remo		The state of the s	in After Re		Time of Removal		
90	(1.00)	nt) = WD-Initial De		9.47	_ Time	Initial DT\		Time		inal DTW	Time of Reinstallation		
D (Volume a	s per diameter)	2"= 0.17, 4"= 0.66	5, 1"=0.041 _	(Z III) 1 1 /	1224	7.53	13	04	1.5	55			
		/H <u> 18.61</u> 55.83		_ Comments:									
Three Casing Volumes =													
Color: clear	, grey, yellow, bi	rown, black, cloud	y, green		Odor: none,	sulphur, organic	c, other		Solids: Ti	race, Small Qu	, Med Qu, Large Qu, Particulate, Silt, Sand		

Color: clear, grey, yellow, brown, black, cloudy, green

Color: clear, grey, yellow, brown, black, cloudy, green

Project	Name PGE	Topock GMP	V				Samplin	g Event	2006-G	MP-115-Q4	
Job N	Number 33823	34.GM.02.00					**************************************	Date	12/11/	06	
Field	d Team 2	_	Field Condit	ions							
Well/Sa	mple Number	MW-36-100-1	15		QC Sa	mple ID NA	١			QC Sample	e Time M
Purge Sta	art Time 124	10			Purge	Method		Ded. Pu	ump		
	Flow Cell: Y			Min	. Purge Volume			urge Rate (
Water Level	Time	Vol. Purged gallons / liters	pН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
18.02	1244	8	7-98	14.8	0-61	1-36	32-23	0-94	10	-165	
18.07	1249	14	7.92	20.4	1-10	1.35	27.93	1-24	13	-119	
18.09	1254	28	7-93	21,4	0.70	1.19	28.04	1-30	14	-83	
18.09	1259	38	7.94	21.6	0.54	1.11	78.02	1.31	14	-73	
18.09	1202	44	7.94	21.6	0.73	1.10	28.06	1.31	14	-68	
18.09	1204	48	7.94	21.7	0.82	1.08	28.08	1.31	14	-64	
Parameter	Stabilization Cr	iteria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Paramete	rs Stablize prior to s	sampling?					NA				
	I measurement	(11/14/2006)	7.78	17900	0.59	1.04	27.6	1.1		13	
Are measuren	nents consistent wit	th previous?					NA			0	
Sample Time	1205	Sample Location	in: p	ump tubing	well port	spigo	ıt	bailer	othe	r	
Comments:										o - em	- III
Initial Depth	to Water (ft BTO	oc): 16.2	4		_ Measu	re Point: We	II TOC St	eel Casing	WAT	ER LEVEL ME	TER SERIAL NUMBER:
Field measu	red confirmation	of Well Depth (ft I	otoc):		_				((4	If 7	ransducer
		pase) ft btoc(1		- 7	_ Initial DTW	/ / Before Remo	30300C) SE	Approx. 5 m	in After Re	installation	Time of Removal
100	7.23	t) = WD-Initial De	10	,76	Time	Initial DT		Time		inal DTW	Time of Reinstallation
		2"= 0.17, 4"= 0.66	, 1"=0.041 _	(2 in) .\7	- 1130	16.24	12	u	16.	24	The state of the s
One Casing	Volume = D*SW	H 15.99			_ Comments:						
Three Casing	g Volumes =	47.82		/a	-						

Color: clear, grey, yellow, brown, black, cloudy, green

Solids:/Track

Topock Sampling Log

Page 12 of 28

Color: clear, grey, yellow, brown, black, cloudy, green

Project N	ame PGE T	opock GMP					Sampling	g Event	2006-GN	/P-115-Q4		
Job N	umber 338234	4.GM.02.00						Date _	12/14/0	16		
Field	Team 3		Field Condition	ons				Page	of			
Well/San	nple Number	MW-39-070-11	5		QC Sai	mple ID NA	09			QC Sample	e Time	
Purge Star	rt Time 318	4			Purge	Method		_ Ded. Pu	ımp			
	Flow Cell: Y /	N		Min.	Purge Volume	(gal)/(L)	P	urge Rate (gpm)/(mLpr	n) <u>, 25</u>		
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below	
~	13-23	1	7.52	5.89	1.71	2,47	28.4Z	0-31	3.8	-60		
	1327	2	7.50	5.73	2.06	2.09	27.32	0-31	3.7	-69		
	1331	3	7.42	6.17	1-30	1-97	27.11	0.33	4.0	-64		
	1335	4	7-31	7.08	1.61	1.91	27.12	0.40	4.8	-45		
_	1339	5	7.29	7-90	2.09	1.85		0.44	5.7	-29		
1	13 44	6	7.28	8.08	2.73	1.85	27.11	0.44	5.2	-13		
)	1348	7	7.28	8.08	1.59	1.82	27.10	0.44	5-3	-6		
	1351	7.75	7.27	8.16	0.98	1.80	27.12	0.45	5.3	-1		
_	1354	8-50	7.27	8.19	0.84	1.79	27.15	0.45	5.3	2		
Parameter S	tabilization Crit	eria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV		
Did Parameters	Stablize prior to sa	ampling?	Υ	Y	Χ	У	NA			У		
Previous Field	measurement	(10/5/2006)	7.01	12200	1.92	1.24	25.78	0.7		-1		
Are measureme	ents consistent with	previous?	1	\mathcal{N}	N		NA	N		V		
Sample Time 1355 Sample Location: pump tubing \(\text{ well port _ spigot _ bailer _ other _ } \) Comments: \(\text{ xtructor system is down.} \)												
	o Water (ft BTOC		5	a -	_ Measur	re Point: Well	TOC Ste	eel Casing	WATE	ER LEVEL ME	TER SERIAL NUMBER:	
	ed confirmation o		variable of the second	ή		9750048 WO 1990				If T	Fransducer	
	oth - from databa	-	/ / Before Remo	35007A	Marie Committee	in After Reir		Time of Removal				
SWH (Standing Water Height) = WD-Initial Depth 57.3 4					Time	Initial DTV		Time		nal DTW	Time of Reinstallation	
						1315 17.35 1405 14.97 Time of Neinstallation						
	olume = D*SWH	7.05			_ Comments:						THE PERSON OF TH	
Three Casing	Volumes =	1.03		-	= ,-							

Color: clear, grey, yellow, brown, black, cloudy, green

Project h	vame PGE T	opock GMP					Samplin	a Event	2006-GI	MP-115-Q4			
Job N	umber 33823	4.GM.02.00					- A TORNE TORNE	Date		14/06			
Field	Team 3	-36	Field Condition	ons				Page	of	*			
	- N-	MW-39-080-11	15			mple ID NA				QC Sample	e Time		
Purge Sta	rt Time _ 2 3	5			0.000		i.V			istaltic	<u></u>		
	Flow Cell: Y /	N		Min.	. Purge Volume	(gal)/(L) <u></u>	<u> </u>	urge Rate (gpm)/(mLpi	m) 0.24	<u></u>		
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below		
_	121920	1.25	7.10	14.7	2.06	1-95	29.21	0-86	10	-34			
~	1225	7.50	7.05	15.1	2.75	1.77	28.37	0.88	10	- 2-			
_	1230	3,75	7.00	16.2	7.23	1-75	27.80	0.96	11	17			
_	1235	5.0	6.97	16.8	1.34	1.72	27.74	0.99	11	28			
,	1240	6.25	6.95	16.9	1.26	1-70	27.78	1.00	11	36			
<u> </u>	1245	7.50	6.95	17.2	1.95	1-70	27.67	1.02	11	42			
_	1250	8.75	6.94	17.3	2.03	1-70	27.69	1.02	11	44			
			_			7.							
Parameter S	tabilization Crit	eria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV			
Did Parameters	Stablize prior to sa	ampling?					NA						
Previous Field	measurement	(11/15/2006)	7.41	17600	0.64	0.95	28.75	1.05		52			
	ents consistent with						NA						
Sample Time Comments: _	1252	Sample Location	n: pu	Imp tubing	well port	spigot		bailer	other				
		27 77 45				=							
		c): <u>14-3</u>		٨	_ Measu	re Point: Well	TOC St	eel Casing	WATI	ER LEVEL ME	TER SERIAL NUMBER:		
		of Well Depth (ft t	otoc):/ 2.55)	<u>'</u>	- 1574	// D-6 D	10 B			5245 (2)	Fransducer		
200	oth - from databa	-	/ / Before Remo	-	pprox. 5 mi Time		nstallation nal DTW	Time of Removal					
SWH (Standing Water Height) = WD-Initial Depth					_ Time	14.37		(April		48	Time of Reinstallation NA		
The state of the s						Comments:							
Three Casing Volumes = 8.39													

Color: clear, grey, yellow, brown, black, cloudy, green

Description		Project Name PGE Topock GMP Sampling Event 2006-GMP-115-Q4												
Well/Sample Number MW-39-100-115	10000000000		34.GM.02.00	130-7571 W.W.S.P. 3.3110					Date	12/12	106	<u></u>		
Purge Start Time	Field	Team 2		Field Conditi	ons				Page _	of	-			
Min. Purge Volume (gall/(L) S_2	Well/Sar	mple Number	MW-39-100-1	15								e Time $\mathcal{N}\mathcal{A}$		
Note	Purge Sta	art Time 13/	5			Purge	Method _3	CV	Ded. Pu	ump RF	9-2			
Level gallons / iters mS/cm NTU mg/L oC % g/L mv (See description below 15.66 1319 8 7.20 20-1 8.23 1-5L 26.04 1.2 13 114 15.68 13.23 16 2.14 24.0 2.99 0.91 26.58 1.5 16 96 15.68 13.3Z 3-1 7.09 24.1 2.26 6.41 26.6Z 1.5 16 95 15.68 13.3Z 3-1 7.09 24.1 2.26 6.41 26.6Z 1.5 16 95 15.69 13.40 90 7.04 24.2 2.78 0.43 26.57 1.5 16 97 15.69 13.40 90 7.04 24.2 2.78 0.43 26.57 1.5 16 95 15.69 13.40 90 7.04 24.2 2.56 0.43 26.61 1.5 16 95 15.69 13.40 90 7.04 24.2 2.56 0.43 26.61 1.5 16 95 15.69 13.40 90 7.04 24.2 2.56 0.43 26.61 1.5 16 95 15.69 13.40 90 7.04 24.2 2.56 0.43 26.61 1.5 16 95 15.69 13.40 90 7.04 24.2 2.56 0.43 26.61 1.5 16 95 15.69 13.40 90 7.04 24.2 2.56 0.43 26.61 1.5 16 95 15.69 13.40 90 7.04 24.2 2.56 0.43 26.61 1.5 16 95 15.69 13.40 90 7.04 24.2 2.56 0.43 26.61 1.5 16 95 15.69 13.40 90 7.04 24.2 2.56 0.43 26.61 1.5 16 95 15.69 13.40 90 7.04 7.06 7.04 7.06		9.00			Min.	. Purge Volume	(gal)/(L) <u></u> ろ)	PP	urge Rate	gpmy(mLp	m) Z			
15.68 13.23 16 2.74 2.94 2.2 7.57 26.50 7.9 7.9 7.00 7.		Time		рН										
15.68	15.66	1319	8	7.20	20-1	8,23	1-56	26.04	1.2	13	114			
15.68 13.2	15.68	1223	16	7.14	29.2	4.22	1.57	26.50	1.9	19	102			
15.68	15.68	1 -	26	7.11	24.0	2.99	0.91	26.58	1.5	16	96			
15.68 13.36 4.2 7.06 2.4.2 1.19 0.43 26.57 .5 16 94 15.69 13.40 50 7.04 2.4.2 2.78 0.4.5 26.57 .5 16 95 13.42 54 7.04 2.4.2 2.56 0.4.3 26.61 1.5 16 95 2.56 0.4.3 26.61 1.5 26 2.56 0.4.3 26.61 1.5 26 2.56 0.4.3 26.61 1.5 26 2.56 0.4.3 26.61 1.5 26 2.56 0.4.3 26.61 1.5 26 2.56 0.4.3 26.61 1.5 26 2.56 0		35 our Town	To the second se			1.	25 25 25			1000				
15.69	4.5. 7.8		42	7.06	24.2	1.19				16	-			
1342 54 7.04 24.2 2.56 0.43 26.61 1.5 16 95				(2.78		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		16	95			
Parameter Stabilization Criteria Did Parameters Stabilize prior to sampling? Previous Field measurements consistent with previous? Initial Depth to Water (it BTOC): When > 10 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: PGF - 2005 - 0.75 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: PGF - 2005 - 0.75 Initial Depth - from database) ft bloc (117.71) SMM (Standing Water Height) - WPI Initial Depth (2.2.56) Image: Water Height) - WPI Initial Depth (3.2.56) Image: Water Height) - Water Height) - WPI Initial Depth (3.2.56) Image: Water Height) - Water Height) - WPI Initial Depth (3.2.56) Image: Water Height) - Water Height) - WPI Initial Depth (3.2.56) Image: Water Height) - Water Height) - WPI Initial Depth (3.2.56) Image: Water Height	1000	1342	54	7.04	24.2	2.56	0.43		0.00	16	95			
Parameter Stabilization Criteria Did Parameters Stabilize prior to sampling? Previous Field measurement (11/15/2006) 6.97 23000 1.43 2.48 26.3 1.4 96 Are measurements consistent with previous? Sample Time 1345 Sample Location: pump tubing well port spigot bailer other Comments: Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: P66-2005-03 Field measured confirmation of Well Depth (ft btoc): WD (Well Depth - from database) ft btoc (117.71) SWM (Standing Water Height) - WD Initial Dayth (12.56) Time Initial DTW / Before Removal Approx. 5 min After Reinstallation Time of Removal Appr														
Parameter Stabilization Criteria Did Parameters Stabilize prior to sampling? Previous Field measurement (11/15/2006) 6.97 23000 1.43 2.48 26.3 1.4 96 Are measurements consistent with previous? Sample Time 1345 Sample Location: pump tubing well port spigot bailer other Comments: Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: PGF-Z005-05 Field measured confirmation of Well Depth (ft btoc): WD (Well Depth - from database) ft btoc (117.71) SWM (Standing Water Height) = WO height) Reports WATER LEVEL METER SERIAL NUMBER: MATER LEVEL METER												_		
Did Parameters Stablize prior to sampling? Y Y Y NA - Y Previous Field measurement (11/15/2006) 6.97 23000 1.43 2.48 26.3 1.4 96 Are measurements consistent with previous? Y Y NA Y NA Y Y NA Y NA Y Y NA Y NA Y	Parameter S	Stabilization Cr	iteria		+/- 3%	units	(7) 1 17,077	NA	NA	NA	+/- 10 mV			
Previous Field measurement (11/15/2006) 6.97 23000 1.43 2.48 26.3 1.4 96 Are measurements consistent with previous?	-			4	Y	Y	У	NA	-	_	У			
Sample Time 1345 Sample Location: pump tubing well port spigot bailer other Comments: Initial Depth to Water (ft BTOC): 15.15 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: PGF. 7005.03 Field measured confirmation of Well Depth (ft btoc): WD (Well Depth - from database) ft btoc (117.71) SWH (Standing Water Height) = WD-Initial Depth (12.56) Time Initial DTW Time Final DTW T	Previous Field	measurement	(11/15/2006)	6.97	23000	1.43	2.48	26.3						
Initial Depth to Water (ft BTOC):	Are measurem	nents consistent wit	th previous?	Y	Y	γ	N	NA	l Y	_	У			
Field measured confirmation of Well Depth (ft btoc): WD (Well Depth - from database) ft btoc (117.71) SWH /Standing Water Height) = WD-Initial Depth 1/2.56 Time Initial DTW Time Final DTW Final DTW Time F		Sample Time 1345 Sample Location: pump tubing well port spigot bailer other												
WD (Well Depth - from database) ft btoc (117.71) Initial DTW / Before Removal Approx. 5 min After Reinstallation Time of Removal Approx. 5 min After Reinstallation Time of Removal Approx. 5 min After Reinstallation Time of Removal Approx. 5 min After Reinstallation Time of Removal Approx. 5 min After Reinstallation Time of Removal						_ Measu	re Point: Well	TOC St	eel Casing	WAT	ER LEVEL ME	TER SERIAL NUMBER: PGF. 2005.03		
SWH (Standing Water Height) = WD-Initial Depth 102.56 Time Initial DTW Time Final DTW			i del company de la company	Orana alta <u>ar</u>		-					2455	A PER CONTRACT CONTRACT AND A CONTRA		
SWH (Standing Water Height) = WD-Initial Depth VE-130 IIIme Initial DTW Time Final DTW IIIme IIme I	Time of Removal 707													
Lime of Reinstaliation	(3)	- T	(5)		17. 52	T 980		-				Time of Reinstallation	_	
				, 1"=0.041 _	(- m) / t /		12.12	13	20	15	. 20		_	
One Casing Volume = D*SWH 17.44 Comments:			52.3			_ Comments:	•	-						
Three Casing Volumes = 52.3 Color: clear, grey, yellow, brown, black, cloudy, green Odor: none, sulphur, organic, other Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand				v dreen	t .	Odor: none	sulphur organic	other		Solide: Tr	ace Small Ou	Med Qu. Large Qu. Particulate, Silt, Sand		

										Topock	s Sampling Log		
Project N		Topock GMP					Sampling	Event	2006-GM	IP-115-Q4			
Job Nu	ımber 33823	4.GM.02.00					23000000000000000000000000000000000000	Date	12.	13.06	,		
Field 1	Team 1		Field Condition	ons Char	45F			Page _	of				
Well/Sam	ple Number	MW-40D-115				mple ID NA		~ `		QC Sampl	le Time		
Purge Start	(c) 50	8:20	_		Purge Method Mobile Clay Flo Ded. Pump								
	Flow Cell			Min.		(gal)/(L) 7			(gpm)/(mLpm	1) 3,5	5		
	1 low cell												
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below		
111.45	8:20	0	6.87	17.0	1.09	0.85	28.5	1	11	267			
112.82	8.26	15	6.91	17.5	0.54	0.61	28.86	1.1	11	262			
11285	8:32	30	7.27	>99.9	0.34	0.36	30.13	>4	799	220			
112.85	8:38	45	7.38	799.9	0.87	0.29	29.19	>4	>99	205			
112.85	8:44	60	7.38	7999	0.53	0.32	30.75	>4	>99	183			
112.85	8.50	75	7.39	7999	0.27	0.29	30.86	41	799	165			
112.85	8:52	80	7. 39	799.9	0.33	0 27	30.85		799	158	()		
112.85	8:54	85	7.39	799.9	0.27		30.81		>99	154			
112.85	8:56	90	7.40	799.9		0.26	30.86		>99	150			
Parameter St	abilization Crit	teria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV			
Did Parameters	Stablize prior to sa	ampling?	V	1/	V	V	NA	· V	V	V	4		
Previous Field m		(10/5/2006)	7.57	20900	0.75	2.14	32.05	1.3	10	84			
	nts consistent with		V	NH	V	K	NA	N	MA	N			
Sample Time 9:00 Sample Location: well port spigot baller other													
											2015 2725 03		
Initial Depth to	Water (ft BTO	c): <u>///</u>	45		_ Measu	re Point: Vell	TOC Ste	el Casing	WATE		PG 9 E 2005 - 02 TER SERIAL NUMBER:		
Field measured	Field measured confirmation of Well Depth (ft bloc): **Property of the c												
	th - from databa	0.9	66)		Initial DTW	/ / Before Remo	val A	pprox. 5 m	in After Rein		Time of Removal		
) = WD-Initial De			_ Time	Initial DTV		Time	Fin	al DTW	Time of Reinstallation		
		"= 0.17, 4"= 0.66	, 1"=0.041((2 in)	8:12	111.43	r				10000000000000000000000000000000000000		
One Casing Vo	olume = D*SWH	26.			_ Comments:								
Three Casing \	Volumes =	78.	62		-								

Color: clear, grey, yellow, brown, black, cloudy, green

PGE Topock GMP **Project Name** Sampling Event 2006-GMP-115-Q4 Job Number 338234.GM.02.00 Date Field Team **Field Conditions** Page Well/Sample Number MW-42-055-115 QC Sample ID QC Sample Time Purge Method Mobile ready Ded. Pump Purge Start Time 11:20 Min. Purge Volume (gal)/(L) 23 24 Purge Rate (gpm)/(mLpm) Flow Cell(Y) Water Time Vol. Purged pH Conductivity Turbidity Diss. Oxygen Temp. Salinity TDS Eh/ORP Comments mS/cm NTU % g/L (See description below Level gallons / liters mg/L oC mv 0.58 23.6 -130 0 7.16 11:20 6.5 0.60 6 23.6 -129 40 11:21 16.5 0 0.57 11:22 234 12 40 -129 7.16 1 22 10 129 16.5 237 0 26 0.54 23.7 -129 11:24 12 16.5 10 11.41 0.5 10 11.42 15 23.8 11.25 7.15 16.6 -129 18 85 7,15 0.54 24.1 11.43 11:26 6.5 10 -130 21 11.42 11:27 16.5 24.3 10 7.15 2.00 0.52 -13124 11.42 11: 28 24.3 7.15 81 0.50 -132 10 +/- 0.1 +/- 3% +/- 10% NTU +/- 0.3 NA NA NA +/- 10 mV pH units units ma/L when >10 NTUs Parameter Stabilization Criteria 1 V L Did Parameters Stablize prior to sampling? V レ NA Previous Field measurement (10/3/2006) 7.3 19100 8.0 0.76 26.35 1.14 -126Are measurements consistent with previous? ~ NA 11:30 Sample Location: Sample Time bailer pump tubing PGQE 2005-C-3 10.43 Well TOC Initial Depth to Water (ft BTOC):_ WATER LEVEL METER SERIAL NUMBER: Measure Point: Steel Casing Field measured confirmation of Well Depth (ft btoc): If Transducer WD (Well Depth - from database) ft btoc (56) Initial DTW / Before Removal Approx. 5 min After Reinstallation 10:56 Time of Removal SWH (Standing Water Height) = WD-Initial Depth Time Initial DTW Time Final DTW 11:36 Time of Reinstallation D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in) 10.56 10.43 11: u 1 10.43 7.75 One Casing Volume = D*SWH_ Comments: 24 Three Casing Volumes = -

Odor none sulphur, organic, other

Color: dear grey, yellow, brown, black, cloudy, green

Color: clear, grey, yellow, brown, black, cloudy, green

	\					(``)_				Гороск	Sampling Log			
Project		Topock GMP					Sampling Event 2006-GMP-115-Q4							
Job N	Number 33823	34.GM.02.00						Date	12/12	06				
Field	Team 2		Field Conditi	ons				Page	of					
Well/Sai	mple Number	MW-43-075-1	15		QC Sa	mple ID NA		-		QC Sampl	e Time $\mathcal{N}A$			
Purge Sta	art Time 81	3			Purge Method 3CV Ded. Pump 18F-2									
	Flow Cell; Y	/ N		Min	Purge Volume (gal)/(L) 25 Purge Rate (gpm)/(mLpm)									
Water Level	Time	Vol. Purged gallons / liters	pН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below			
8.75	818	10	6.98	13.7	2.78	1.21	20.63	0.8	8	41				
8.76	810	14	7.24	14.0	1-31	1.23	21.05	0.5	9	-29				
8.78	823	20	7.29	15-7	1-88	1.31	21.13	0-9	10	-74				
8.79 826 26			7.23	18.2	1.19	1-28	21.07		1)	-94				
8.80	829	3 2	7-33	20.8	1-30	1.23	z1.03		13	-101				
8.80	832	38	7.34	24.5 ×	1.09	1.13	21.04	100	15	-107				
8.80	736	42	7.34	17.4	1.21	1.1%	21.05		10	-109				
8.80	837	46		17.7										
8.80	840	50		18.1										
Parameter S	Stabilization Cri	iteria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV				
Did Parameter	rs Stablize prior to s	sampling?	Y	٧٠	γ.	Y.	NA	_		Υ:				
Previous Field		(10/2/2006)	7.68	17900	0.51	1.18	22.33	1.06		-128				
	nents consistent wit	- 1		γ	Υ	Y *	NA	7:	ب	Ÿ	_			
		Sample Location	P.	h-skric	well port	spigo engle to d		bailer horiba	other					
Initial Depth t	to Water (ft BTO	c):	39		_ Measu	re Point: Wel	I TOC St	eel Casing	WAT	ER LEVEL ME	TER SERIAL NUMBER: PGF 2005-C3			
		of Well Depth (ft	btoc):		-	141-02-10-125				If 7	Fransducer			
SHIPS IN CHESTORICATE	pth - from datab	STANSFER PRODUCES AND ADDRESS OF THE PARTY O	71		/ / Before Remo	78.00 J	Approx. 5 mi			Time of Removal				
SWH (Standing Water Height) = WD-Initial Depth 68.6					Time	Initial DT\	-	Time	0.000	inal DTW	Time of Reinstallation			
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in) . \7					809	8.39	8	45	8	.39				
	Volume = D*SW	н <u>11.66</u> 34.94	•		Comments:		13							
Three Casing	y Volumes =	۲۰۰۲ ر	1		_									

Color: clear, grey, yellow, brown, black, cloudy, green

Project I	Para de la composición dela composición de la composición de la composición de la composición dela composición dela composición dela composición de la composición dela composición de la composición dela composición del	opock GMP 4.GM.02.00					Samplin	ng Event _		MP-115-Q4			
	Team 2		Field Conditi	ons				Page _	of	/ 06			
	rt Time _ 9.4		15	Min	QC Sample ID NA QC Sample Time NA Purge Method 3 < V Ded. Pump RF - X . Purge Volume (gal)/(L) 4 % Purge Rate (gpm)/(mLpm) X								
	Flow Cell (V)	N		IVIII.	. ruige voiume	(gar)/(L) <u>4</u>	<u>o</u> _	Turge Nate (m) <u> </u>			
Water Level	Time	Vol. Purged gallons / liters	pН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below		
9.69	×53_	8	7.20	18.4	2.08	4.94	70.83	1.1	11	- 25			
9.69	856	16	6.79	21.7	1.130.8	11-13	21.63	1-3	14	-63			
9.69	1000 900		6.77	24.0	0.88	1.01	21.57	1.5	16	-75			
9.69	1004 904	34	6.77	24.5	1.73	0.60	21.61	1.5	16	-81			
9.70	1008 908	42	6.76	25.1	1.02	0.54	21.61	1.5	16	-83			
9.70	19/2 9/2	50	6.76	25. 2	0.75	0.48	21-63	1.6	16	-85			
9-70	1914 914	54	6.76	25.2	0-71	0-46	21.62	1.6	16	-85	The state of the s		
Parameter S	itabilization Crit	eria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV			
	s Stablize prior to sa		Y	Y	V	У	NA	-	_	Y			
Previous Field	Street Harman on Street Service	(10/2/2006)	7.22	23600	0.67	0.39	22.65	1.44		-108			
Are measurements consistent with previous? NA Y Y													
				-									
Initial Depth to	o Water (ft BTOC	S):	66		_ Measu	re Point: Well	TOC S	teel Casing	WAT	ER LEVEL ME	ETER SERIAL NUMBER:		
		of Well Depth (ft b	otoc):		-					lf ·	Transducer		
#H 40 05	pth - from databa		-	/ Before Remo		Approx. 5 m			Time of Removal				
SWH (Standing Water Height) = WD-Initial Depth 93.34					_ Time	Initial DTV		Time		inal DTW	Time of Reinstallation		
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in) . [7] One Casing Volume = D*SWH 15. 87						847 8.66 \$24 8.73							
	ree Casing Volume = D*SWH 15.87 Comments:												

Color: clear, grey, yellow, brown, black, cloudy, green

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Color: clear grey, yellow, brown, black, cloudy, green

Three Casing Volumes = -

Color: clear, grey, yellow, brown, black, cloudy, green

	Project Name Job Number 338234 GM 02 00 Sampling Event 2006-GMP-115-Q4													
		4.GM.02.00	Field Condition	ne.				Date _		2/13/06				
rield	Team 2	*	Fleid Conditio	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1-11-11-11-11-11-11-11-11-11-11-11-11-1		Page	of					
	nple Number[nt Time 850	MW-44-125-11	5			QC Sample ID NA QC Sample Time VA Purge Method 3 CV Ded. Pump Vo								
ruige Stai	Flow Cell:			Min.	10 Sec.	(gal)/(L) _57		Purge Rate (p	1000	-3/4			
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv		ments iption below		
ю	900	restrt a	inp		-									
36.34	908	8	7.22	6.93	29.5	3-11	21-7	0.4	4.4	-91	*			
41.12	917	14.75	7.43	9.10	13.0	1-97	13.0	0.5	6.0	-75	2			
41-16	926	21.5	7-77	13.1	3.45	1.61	23.6	0-8	8	-68		1912		
41.16	935	28,25	7.90	13.7	2.09	1-36	23.8	0.8	9	-71				
41.16														
41.16	955	43.25	8.03	14.2	3.25	0-96	23.7	0.8	9	-72				
41.16	1002	48.5	8.05	14-2	3.15	0-86	24.1	0.8	9	-69				
41.12	1011	56	8.07	14-2	2.27	0.76	24-0	0-8	9	-67				
Parameter S	tabilization Crit	eria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV				
Did Parameters	Stablize prior to sa	ampling?					NA							
Previous Field	measurement ents consistent with	(11/15/2006)	7.98	14200	3.01	1.26	24.5	0.82		-119				
Sample Time),''		V 985	-te 125	000 0	NA	31 19	(68)					
		Sample Location		mp tubing Decressed p	_ well port urge nute	+0 3/4		bailer	other					
	nitial Depth to Water (ft BTOC): 18, 43 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:													
	eld measured confirmation of Well Depth (ft btoc): 127.6 [D (Well Depth - from database) ft btoc (128.8) Initial DTW / Before Removal Approx. 5 min After Reinstallation Time of Removal \$25													
			17.5	57				110.191			Time of Removal	825		
9.		= WD-Initial Dep = 0.17, 4"= 0.66,	100000000000000000000000000000000000000		723	18.43		Time :3 \	19.5	nal DTW	Time of Reinstallation	1024		
	olume = D*SWF	Comments:	1 10.13		\	1 1.3	,,,							
Three Casing	Volumes =		=											

Color: clear, grey, yellow, brown, black, cloudy, green

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project N		Topock GMP		r			Samplin	g Event	2006-GI	MP-115-Q4	
Job N	00020	4.GM.02.00					The control of the co	Date	12 13	106	<u> </u>
Field	Team 2	_	Field Condition	ons	-			Page _	of		
Well/San	nple Number	MW-46-175-11	15		QC Sa	mple ID NA				QC Sample	e Time
Purge Star	rt Time IZ	17			Purge	Method _ & C		Ded. Pu	ımp R	F-Z	
	Flow Cell(Y)			Min	. Purge Volume	(gal)/(L)	P	urge Rate (pm/(mLpi	m)2_	
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
33.40	1253	12	8.26	17.6	0.43	3.31	22.0	1.0	11	69	
33.40	1258	24	8.27	17.5	0.86	1-76	23.1	1.0	11	18	
33.42	1305	36	8.30	17.8	0.41	2.54	23.8		11	3	
33.42	1311	48	8.32	17.6	6.43	3.37	24.0	1.0	N	-12	
33.46	1317	60	8.31	17.7	0.91	1.56	24.6	1.1	11	-17	
23.51	1323	72	8-31	17.7	0.64	0-34	24-7	1-0	1/	-76	
33.51	1326	78	8.31	17.7	0.41	0.28	24.7	1.6	l i/	-30	
33.51	1379	84	8-31	17.7	0.87	0.28	24-6	1.0	11	-33	
-											
Parameter S	tabilization Crit	teria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
	Stablize prior to s		Y	У	γ	Y	NA	_		7	
Previous Field	measurement	(11/15/2006)	8.28	17100	1.52	1.11	24.4	1		-118	
1	ents consistent with	n previous?	У	1	У	N	NA	4		N	
Sample Time Comments: _	_1330	Sample Locatio	n: pı	ump tubing	well port	spigot		bailer	other		
									- 12		
Initial Depth to	o Water (ft BTO	c): 28-	85		_ Measu	re Point: Well	TOC St	eel Casing	WAT	ER LEVEL ME	TER SERIAL NUMBER:
Field measure	ed confirmation of	of Well Depth (ft I	otoc):	9. 1	_					If 7	Fransducer
WD (Well Dep	oth - from databa	ase) ft btoc(1	81.8)		Initial DTW	/ / Before Remo	val /	Approx. 5 m	in After Rei		Time of Removal
) = WD-Initial De		2.95	Time	Initial DTV	1 100000000	Time		nal DTW	Time of Reinstallation
D (Volume as	per diameter) 2	"= 0.17, 4"= 0.66	, 1"=0.041 _	(2 in) -17	1246	28-85	133	39	28.	90	INVESTIGATION CONTINUES CO
One Casing V	olume = D*SWI	1 26	.0		_ Comments:			11			
Three Casing	Volumes =	18.0			_						

Color: clear, grey, yellow, brown, black, cloudy, green

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project I	Name PGE	Topock GMP				Samplii	ng Event	2006-GI	MP-115-Q4					
Job N	umber 3382	34.GM.02.00			Date 12/13/06									
Field	Team 2		Field Condit	ions				Page _	of					
Well/Sar	nple Number	MW-46-205-1	15		QC Sa	mple ID NA	V			QC Sample	e Time <i>NA</i>			
Purge Sta	rt Time /Z/	4			Purge	Method 3	cv	_						
	Flow Cell:			Min	. Purge Volume	(gal)/(L) /o	0 1	Purge Rate	gpm)/(mLp	m)Z				
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv		mments cription below		
33.78	1121	14	8.13	21.0	0.29	1.35	22.1	1-3	13	5				
33.83	1127	26	8.14	21.0	0.59	1.14	23.7	1.3	13	8				
33.85	1134	40	8-21	21.2	0.78	1.22	24.1	1.3	13	7				
33.85	1141	54	8.23	21.2	0.89	1.29	23.8	1-3	13	5				
33.90	1148	68	8.22	21.(0.93	1.28	23.5	13	1.3	14	=			
33.90	1153	82	8.22	71.1	0.68	1.23	23.6	1-3	13	20				
33.99	1200	92	8.21	71.0	0.66	1.04	25.2	1-3	13	12				
33.94	1205	102	8.21	71-0	0.42	0-97	55.1	1.3	13	10				
Parameter S	Stabilization Cr	iteria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV				
Did Parameter	s Stablize prior to	sampling?					NA							
Previous Field	ALCHIOCOL CONTROL CONT	(10/5/2006)	8.65	27500	1.35	2.41	26.98	1.7		-96				
	ents consistent wi						NA			***************************************	<u></u>			
	1207		on: p	ump tubing	_ well port	spigot	t	bailer	other					
		oc):			_ Measu	re Point: Wel	ITOC S	teel Casing	WAT	ER LEVEL ME	TER SERIAL NUMBER:			
		of Well Depth (ft								lf 7	Fransducer			
	pth - from datat	X3	(24.67)	^ <u>_</u>	-	/ / Before Remo		Approx. 5 m			Time of Removal	1105		
- E	(F) (SE)	t) = WD-Initial De	50	5.59 (2 in) 17	_ Time	Initial DT\		Time		inal DTW	Time of Reinstallation	12 40		
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in) . 17				1 2 2 A 10	1104 29-08		240	29.						
	/olume = D*SW	и <u>33.7</u> 99.7	3		_ Comments:			245	29.	05	The second secon			
Three Casing					Lagrence		15 150 0 44 AV1		12703200		11001-2001-200-200-200-200-			
Color: clear,	grey, yellow, br	own, black, cloud	y, green		Odor: none,	sulphur, organic	c, other		Solids: Tr	race, Small Qu	, Med Qu, Large Qu, Pa	rticulate, Silt, Sand		

29.59

11:59

Comments:

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)

Color: ¿lear, grey, yellow, brown, black, cloudy, green

One Casing Volume = D*SWH

Three Casing Volumes = -

Time of Reinstallation

12:39 29.98 Comments:

One Casing Volume = D*SWH_

Color: clear, grey, yellow, brown, black, cloudy, green

Three Casing Volumes = -

Project N	A CONTRACTOR OF THE PARTY OF TH	opock GMP					Sampling	Event _	2006-GM	P-115-Q4			
Job Nu	- 33020	4.GM.02.00	F: 110 III					Date _	121	13/06			
Field ⁻	l eam 2		Field Condition	ons Sun	ny, 65			Page _	of				
Well/Sam	ple Number	50 0000 <u>111</u>			QC Sa	mple ID NA		٠.		QC Sample	Time _		-
Purge Star	t Time	:07			Purge	Method	ailor	_ Ded. Pu	ump				
	Flow Cell	N		Min	. Purge Volume	(gal)/(L)	5 9 Pi	ırge Rate ((gpm)/(mLpm	n)	10		
Water Level	Time	Vol. Purged gallons / liters	pН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv		Comme (See descripti	
31.85	15:07	0.3	7.48	18.4	18.69	3.97	25,6	2.2	23	105			
56.00	15,27	5	7.23	799.9	14.2	1.12	26.24	×	799	42			
79.75	15.44	10	7.26	799.9	15.9	2.89	25.47	3 24	799	-24			
100.21	16:03	15	7.26	799.9	131	2.81	26.13	74	>99	-51			
117.0	16:30	22	7.39	58.2		3.51	25.46		57	-8	DRY		
121.00		250			07		2 1. 10		1		400		
					<u> </u>								
										ne sin-			
Parameter St	abilization Crit	teria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV			
	Stablize prior to sa		V	V	N	r	NA	V	V	r			
Previous Field n	neasurement	(10/6/2006)	7.01	21600	4.66	1.49	33.61	1.3		-65			
Are measureme	nts consistent with	previous?	V	NIA	N	N	NA	MA	NA	\sim			
Comments:	Cont.	Sample Location d not n 6 Sam	ple c	pump	well port in 11 15/06	spigot Well	u / a	bailer bailer	- dis	6 09		ilor DTW=	87.92
Initial Depth to	Water (ft BTO	31.	85		_ Measu	re Point: Well	TOC Ste	el Casing	WATE	R LEVEL MET	ER SERIAL	. NUMBER:	
		of Well Depth (ft b			-				11/1	4 If T	ransduce	ir-	
70		ese) ft btoc(1			-	/ Before Remo	<i>-</i>	pprox. 5 m	in After Rein	stallation	Time of Ren	noval	
) = WD-Initial Dep			Time	Initial DTV		Time	Fin	al DTW	Time of Rei		
		"= 0.17, 4"= 0.66,			15:07	31.85					artina de la color de la c		
	olume = D*SWF		13.0	}	_ Comments:								
Three Casing	Volumes =	S	4.14		_								

Color: clear, grey, yellow, brown, black, cloudy, green

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project N	200 page 144 and 200 a	opock GMP 4.GM.02.00					Samplin			IP-115-Q4				
Field	00020	Manager Charles Indianae	Field Condition	ons (una	14,75F			Date _ Page	12.15 (of	r. 06 _1				
Well/Sam	nle Number	MW-49-135-11	5		•	mple ID NA		_		00.000010	Time			
	- E		3			Purge Method Wattera pumped. Pump								
Purge Star	rt Time /0			Min	Purge Volume	(cal)(L) 3 O	ine or pr	urao Pato (apm)//ml.pm	1) 0.5	-			
r	Flow Cell: (Y)	N	22	IVIII I	ruige volume	(gai)/(L) 3 U		inge itale (gpm//(mcpm	"				
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description bel	ow		
•	(0:36	0	7.30	9.99	9.02	0.37	24.91	1.2	15	-16				
-	10:48	5	7.42	>99.9	8.54	0.08	25.05	34	799	-65				
_	10:56	10	7.43	84.0	\$7.7	0.23	25.15	>4	50	-118				
_	11:06	15	7.46	50.7	501	0 26	25.24		31	-139		-		
	11:16	20	7.48	38.8		0.27	25.23		23	-147				
_	11:26	25	7.49	32.7	63.9	0.26	25,20		20	-152				
	11:36		7.49	28.4	58.4	0.26			18	-156				
	11:40		7.5	27.7	53.7	0.26	25.3	1.7	17	-157				
-i		aleale												
Parameter Si	tabilization Crit	eria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	,			
	Stablize prior to sa			<u></u>	V	レ	NA	レ						
Previous Field n	measurement	(10/12/2006)	7.73	21200	96.2	1.9	24.94	1.3		-200				
Are measureme	ents consistent with	previous?	~	N	N	~	NA	V	NA	\sim	×			
Sample Time	11:40	Sample Locatio	n: pui	mp tubing	well port	spigot		bailer	other					
Comments: _	No 1	-0:111		1, 00	20-	lenne	* * * * * * * * * * * * * * * * * * * *	h	Q - 41 -	anu	e, replaced with			
	To tu	vbi lih	, lea	ding to	, is g	allons 5	ILCE	400	DU 4 P	. 6106	C) IEB lates Win	- wew or		
Initial Depth to	Water (ft BTOC	29.	98		_ Measur	e Point: Well	TOC Ste	eel Casing	WATE	R LEVEL MET	ER SERIAL NUMBER:	£ 2005-1		
Field measure	ed confirmation o	f Well Depth (ft b	otoc):		_					If T	ransducer			
WD (Well Dep	oth - from databa	se) ft btoc(1			Initial DTW	/ Before Remo	val A	pprox. 5 mi	in After Rein	VENEZI WAY 100 - VANO 100	Time of Removal	2		
SWH (Standin	ng Water Height)	= WD-Initial Dep		6.62	Time	Initial DTV	-	Time	2000000	nal DTW	Time of Reinstallation	COL 17 (1)		
D (Volume as	per diameter) 2"	= 0.17, 4"= 0.66	1"=0.041(1.5 in)		29.91	3	11:49	30.	34				
One Casing V	olume = D*SWH		2 =		Comments:			·*/						
Three Casing	Volumes =		30		_									

Color: clear, grey, yellow, brown, black, cloudy, green

			=		-					Topock	Sampling Log	
Project N	vaine PGE	Topock GMP					Samplin	a Event	2006-GI	MP-115-Q4		
Job No	umber 33823	4.GM.02.00						Date	12.1	5.02		
Field	Team 2	(C	Field Condition	ons Sana	4,75			Page	i of	1		
Well/Sam	nple Number	MW-49-275-1	15		QC Sa	mple ID NA	ř			QC Sampl	le Time	
Purge Star	rt Time /	0:26			Purge	Method Frad	1 ston	Ded. Pu	ımp	<u>=</u> -		
	Flow Cell:			Min		(gal)/(L) 12	,	urge Rate (m)3		
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below	
31.01	10:26	0	7.61	22.8	36.7	4.14	29.37	1.74	18	-164		
48.51	10:33	28	7.77	28.7	7.91	2.33	28.99		(文	-195		
38.75	100 × 100 100 100 100 100 100 100 100 10	49	7.98	30.1	23.5	1.69	29.56	1.		701		
38.45		(8.09		494	1.65	29.85	-	20	-209		
38.39	10:08	1 12	8.16	29.9	3.58	1.63	29.97		19	-211		
39.34	11:01	108	8 24	The state of the s	531.	1.66	29.7	1.87	19	-215		
37.57		-	8.29	-	55.2	1.68		1.87		-213		
34.54	11:43	147	0.07		05.0.	1.00	07.5	(,),	00			
7 7	4-13	1 1 1										-
Parameter S	tabilization Cri	teria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV		
	Stablize prior to s		V	1/	N	1/	NA	V	~	V		
Previous Field r	measurement	(10/12/2006)	8.21	31100	696	1.82	28.34	2		-252		
Are measureme	ents consistent with	n previous?		\sim	N	V	NA		MA	4 N		
Sample Time	_11:10_	Sample Location	on: (pu	ımp tubing	well port	spigot	·	bailer	other			
Comments: _										• • • • • • • • • • • • • • • • • • • •		
Initial Depth to	o Water (ft BTO	c): 3/. 6) <i>I</i>		_ Measu	re Point: (Well	TOC St	eel Casing	WAT	New Section in the Section of the Contract Contr	PGQE 2005-01	A
Field measure	ed confirmation	of Well Depth (ft l	btoc):				_	1150		lf "	Transducer	_
WD (Well Dep	pth - from databa	ase) ft btoc (2	.74.7)		Initial DTW	/ / Before Remo	val A	Approx. 5 mi	in After Rei	APA 50	Time of Removal 10:00	-
SWH (Standin	ng Water Height) = WD-Initial De	pth	13.7	_ Time	Initial DTV		Time		inal DTW	Time of Reinstallation / 1:45	_
D (Volume as	per diameter) 2	"= 0.17, 4"= 0.66	, 1"=0.041	(2 in)	9:50	3 31.01		11:50	. 31	.05	Time of Nemstallation	
	olume = D*SWI	4 41.	43		_ Comments:				1	William China Committee		
Three Casing	Volumes =	12	24.28		-							
Color: clear,	grey, yellow, bro	own, black, cloud	y, green		Odor: none	sulphur, organic	, other		Solids: Tr	race, Small Qu	, Med Qu, Large Qu, Particulate, Silt, Sand	

Initial Depth to Water (ft BTOC): 32.61

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

Field measured confirmation of Well Depth (ft btoc):

WD (Well Depth - from database) ft btoc (367.35)

SWH (Standing Water Height) = WD-Initial Depth 334.24

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)

One Casing Volume = D*SWH 56.21

Three Casing Volumes = 170.72

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

If Transducer

Initial DTW / Before Removal Approx. 5 min After Reinstallation Time of Removal Time of Reinstallation 13.23 8

Time Initial DTW | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 13:43 | 32.73 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43 | 33:43

Odor: none, sulphur, organic, other

Color: (clear, grey, yellow, brown, black, cloudy, green

Color: clear, grey, yellow, brown, black, cloudy, green

Page 14 of 16

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Field measured confirmation of Well Depth (ft btoc): WD (Well Depth - from database) ft btoc SWH (Standing Water Height) = WD-Initial Depth D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in) 27.00 One Casing Volume = D*SWH Three Casing Volumes =

Color: clear, grey, yellow, brown, black, cloudy, green

		(If Transducer										
Initial DTW /	Before Removal	Approx. 5 min Aff	ter Reinstallation	Time of Removal 11:58								
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 12:27								
11:28	42.75	.12:32	42.85	-Time of Reinstallation								
Comments:												

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Comments:

One Casing Volume = D*SWH_

Color: glear, grey, yellow, brown, black, cloudy, green

Three Casing Volumes = -

Field measured confirmation of Well Depth (ft bloc):

WD (Well Depth - from database) ft bloc (113.25)

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)

One Casing Volume = D*SWH 43 3 4 36 7 4

Three Casing Volumes = 13 0 03

Color: clear grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Initial DTW

Time

Final DTW

7.51

Time

Comments:

Time of Reinstallation

	9	73		Topock	Sampling Log
Project Name PGE Topock GMP			Sampling Event	2006-GMP-115-Q4	
Job Number 338234.GM.02.00			Date _	12/02/06	
Field Team 1	Field Conditions In	nny, 70	Page	2 of 2	
CONTINUED	51-115	QC Sample ID NA		QC Sample	e Time
Purge Start Time /9:09		9	Ded. Pu	100	
Flow Cell / N	Mir	n. Purge Volume (gal)/(L)	Purge Rate (gpm)/(mLpm) 2	
Water Time Vol. Purged gallons / liters	pH Conductivity mS/cm	Turbidity Diss. Oxygen MTU mg/L	Temp. Salinity oC %	TDS Eh/ORP g/L mv	Comments (See description below
5242 14:09 58	7.41 11.2	1.42 2.44	28.7 0.6	7 140	:
52.89 14:14 68	7.42 11.1	0.10 2.37	297 0.6	7 /33	
53.00 14:19 08	7.42 11.0	00723	29.9 0.6	7 130	
53.03 14:24 88	7 47 11.0	209 7.09	29.9 0.6	7 128	
53.08 14:29 98	7.42 11.0	0.46 2.58	29 9 0.6	7 128	
53.15 14: 34 108 4	7.41 10.9	0. 21 2.49	29.9 0.6	7 128	
53 /5 14:39 118 1	7.41 10.8	0.18 2.80	299 n C	7 127	
(2,514,44 128	7:40 10.8	0 25 3.01	30.00.6	7 128	
53.15 14:49 /30	7.40 10.8	2960 3.07		7 129	
Parameter Stabilization Criteria	+/- 0.1 pH units +/- 3%	+/- 10% NTU +/- 0.3 units mg/L when >10 NTUs	NA NA	NA +/- 10 mV	
Did Parameters Stablize prior to sampling?	VV	N	NA V	VV	
Previous Field measurement (10/12/2006)	7.43 3090	2.53 7.59	28.61 0.15	113	
Are measurements consistent with previous?	V	NN	NA —	- N	
Sample Time 14:55 Sample Location Comments:	on: //w- ST pump tubing	well port spigot	t bailer	other	
Initial Depth to Water (ft BTOC):	see P.1	Measure Point: Wel	I TOC Steel Casing	WATER LEVEL ME	TER SERIAL NUMBER:
Field measured confirmation of Well Depth (ft	btoc):			18-1	ransducer
WD (Well Depth - from database) ft btoc (9	-	Initial DTW / Before Remo	val Approx 5 mi	in After Reinstallation	AND CONTRACT CONCENTRACTOR
SWH (Standing Water Height) = WD-Initial De		Time Initial DT\		Final DTW	Time of Removal Time of Reinstallation 14:56
D (Volume as per diameter) 2"= 0.17, 4"= 0.66	6, 1"=0.041 <u>(4 in)</u>	13:55 47.5	5 15:01	47.51	Time of Reinstallation 22
One Casing Volume = D*SWH		Comments:			
Three Casing Volumes = 130.	03	(A			
Color: clear, grey, yellow, brown, black, cloud		Odor: none/ sulphur, organic	c, other	Solids: race Small Qu,	Med Qu, Large Qu, Particulate, Silt, Sand

Page 2 of 16

(TUE)DEC 12 2006 8:26/ST. 8:25/No. 6800000339 P

w

461451

	/	-
f		B)
ł	J	Γ.
٦	\ <u>`</u>	

TRUESDAIL LABORATORIES, INC. 14201 Franklin Avenue, Tustin, CA 92780-7008 (714)730-6239 FAX: (714) 730-6462 www.truesdail.com

CHAIN OF CUSTODY RECORD [2006-GMP-115-Q4]

TURNAROUND TIME	10 D	ays
DATE 12/11/06	PAGE	OF

V	MOSCHILCOM																							
COMPANY	E2						7	\mathcal{I}	7	7	7	7	\mathcal{T}	T	7	7	/					7	COMME	ENTS
PROJECT NAME	PG&E Topock						/-	/	/	/		/	/ /	/	Ι,	/	/	/			/ /	/		
PHONE	(530) 229-3303	3 r	ax (530	339-3303		1	/ /	/ /	/ /	/	/ /	E /	' /			1	/	' /	/ /	/ /	2			
ADDRESS	155 Grand Ave Oakland, CA 9		<u> </u>	*		Jaga .	. /8	PH(150		/.	A Files	Total Chronium	/,		/	/	/	/	/	SEROFCONTA.				
P.O. NUMBER	338234.GM.02	2.00	÷		/	SP FIRM	P. Fille	trains	/ /	/ /	100 F	/ /	/ /	1	/	/	/ /	/	/ /	8				
SAMPLERS (SIGN	ATURE /	+ là	<u> </u>		/ /8	के हि	F / S		: /ā	/	8/						/	/		£/				
SAMPLE LD.	•	DATE	TIME	DESCRIPTION	188	CAS (7100) Lab Fillered	Specific Lab Fillered	PH(TS	78 (1807)	Parks		/	/ /	Ι,	/ /	Ι,	/ ,		3					
mu-33-2	10-115	12/11/06	935	GW		X	X	X		X									3		РН	~ (5	
MW-27-0		12/11/06		6-W		X	У	X		X									3		PH.	<u> - 0</u>) ————	
MW- 36-1	The state of the s	12/11/06	1205	6W	X		X	X		X									3		DH-	- 0		
MW-32.	35-115	12/11/06	1340	6w		X	X	X	Ÿ	X									3	Í) <u>H</u>	-0		
MW.32.	020-115	12/11/06	1410	6W	<u> </u>	X	Χ	×	X	A					2	20	itio	กร	3	5	^{9}H	<u>- D</u>		
, , ,					-	<u></u>				1	O	50	mp	16	AH	96	'nР	d	H	_				
										1		ee	For		Au	au			1				- 10	
				- WWW.	-	_	├			1	F	Ħ									- 10-15-0			
-		CHAIN OF	CUSTO	DY SIGNATU	DE D	ECC	IBD	L .	69									-	AMPI	E CO	NDITIO	NS.		
Signature		Drietad		Company		7			Tie		2/11/				ECEIV	ΈD	C	OOL			WARM			°F
(Relinquished)// Signature (Received)////	halle RI	Name /	icholle	V Company	<u>"</u>	I			Da Tir	te/ ka	√ 1,€	િક	40	С	usto	DÝ S	EALE	D	YE	s 🗖		NO 🗆	1	
Signature (Relinquished)		Printed Name		Company Agency	d				Da Tir	te/ ne					CIAL R	EQUI	REMEI	N75:						
Signature (Received)		Printed Name		Company Agency	ıt .				. Tic	_														
Signature (Relinquished)		Printed Name		Company Agency					Tir															
Signature (Received)		Printed Name		Company Agency	el .				Da Tir	te/ ne			2.0											

06/139

EMAX Laboratories, Inc. 1835 W. 205th Street, Torrance, CA 90501 Tel: (310) 618 8889 Ext. 119 Fax: (310) 618 0818 Joe Kelbley jkelbley@emaxlabs.com

CHAIN OF CUSTODY RECORD [2006-GMP-115-Q4]

COC Number

TURNAROUŅD ŢĪME	12	Days		
DATE 12/11/06 -	PAGE	i	OF	7

COMPANY	E2					- /	Diss Me.	/3	N/A'B	7	7	/	7	7	7	7	7	7	///	COMMENTS
PROJECT NAME	PG&E Topock	GWM					/8	a.M.	6/		/				/	/	/		////	
PHONE	(530) 229-3303	3	fax <u>(</u> 530	0) 339-3303		Solute	Title	16.22 (/ /	/ /	/ /	/ /	/ /	/ /	/ /	/ /	/ /	/ /	/ / / /	
ADDRESS	155 Grand Ave	e Ste 1000			li 3		[ge 68]	# Pag	Pa ₀₀	/8	₃ /		/	/			/			
ā	Oakland, CA 9	4612				A A	A Filt	ielo E		18. NO.				/	/		/		MEN	
P.O. NUMBER	338234.GM.02	2.00			1		78/ Fe	100	/_ /	igs/	/ /	/ /	/ /	/ /	/ /	/ /	/ /	/ /		
SAMPLERS (SIGN.	ATURE MAT.	Mir.				Diss Metals Candal Liba A	100)	Alkalinin, C	1910	Br.Cl.SON.NOZA.	/						/		SER OF CONTRAINERS	
		· W			A PAGE	S.Met.	S Metal	alini,	100	2/				/	/	/	/	Mar.	<i>"</i>	
SAMPLE I.D.		DATE	TIME	DESCRIPTION	F	18 18	1/2	1 1 1	4		_						_	Z		
MW-32-0	535	12/1/06	1340	GW	X			X	X										A Commence of the Commence of	
MU-32-		12/11/06	1410	6-W	X			X	X											
																	-			
															N.					
										5 - State					-					
-													SPERIOR I							
L		.1					1												TOTAL NUMBE	R OF CONTAINERS
																			All and the second seco	

CH	IAIN OF CUSTODY SIG	SNATURE RECORD		SAMPLE CONDITIONS
Signature (Relinquished)	Printed Marth Ringier	Company/ Agency EZ	Date/ 12/11/06 Time /530	RECEIVED COOL WARM °F
Signature (Received)	Printed GEORGE L'in	Company/ Agency EMAX	Date/ /2/12/06 Time	CUSTODY SEALED YES NO NO
Signature (Relinquished)	Printed GEOPGE Lan	Company/ Agency	Date/ 12/12/06 17:45	SPECIAL REQUIREMENTS:
Signatura	Printed TON LUND	Companyl	Date/ 12-12-05 Time 1745	
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	*
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	

TRUESDAIL LABORATORIES, INC. 14201 Franklin Avenue, Tustin, CA 92780-7008 (714)730-6239 FAX: (714) 730-6482

CHAIN OF CUSTODY RECORD

[2006-GMP-115-Q4]

TURNAROUND TIME 3

DATE (2/12/06 PAGE

3 Days

E 12/12/06 PAGE OF

OMPANY	E2						1		1	7		4	7	7	7	7	7	/ /	7	T	7	
ROJECT NAME	PG&E Topod	ck		*		J	Q	-	1			4			L 1				/ ,	/ /	СОМ	MENTS
HONE	(530) 229-33	303	FAX (530) 339-3303			/ /	Ι,	/ /	Ι,	/ /	Carallan	1	7	U			I	/ [./		
DORESS	155 Grand A Oakland, CA	ve Ste 1000					,/.	20.11	7	/	Bund	-	\int_{Λ}	Z	T F			7/	CONTAINERS		Rec'd	12/12/
.O. NUMBER	338234.GM.				OB MB.	A FIRE	Specific Co. Lab Filleray	() adues	/ /	/	Control Fied Fillers	1/	A	1	_/	1	\neq	Ϊ.	S. S		- d	12/12/ 6 1 5 0
AMPLERS (SIGN	ATURE NO	4/9		91 111a - Velender (²)	1	Se (1) 88		20,000	78/1801			/- 5	9X/1	7-	[1]	/ \ /			J. C. W. C.			
SAMPLE I.D.		DATE	TIME	DESCRIPTION	18	8	13/	/H	18	1880	/ /							13	1			
nw-34-1	00-715	12/12/06	1251	Lw		X				X						T		2	Ph	1-2)	
NW- 4411	N. Santa Anna Bankari	12/12/06	MSO	6W		X				X						Ţ	-	2	Kq	-2	34 VXX ==	
										Ì												
					5				For S	Si ee	amp For	ole m	Co Att	ndi act	tior ed	18		4	TOTA	LNUMB	ER OF CON	FAINERS

CI	HAIN OF CUSTODY SH	GNATURE RECORD		SAMPLE CONDITIONS
gnature (elinquished) / Mar Mar	Printed Natt Pringier	Company/ Agency P2	Date/ 17/12/06 Time /530	RECEIVED COOL WARM . *F
gnature leceived) May 64 Rorrs	Printed Name Language	Company/ Agency T - L I	Date/ /2//2/06 Time 00:30	CUSTODY SEALED YES 🗍 NO 🗍
gnature	Printed	Company/	Date/	SPECIAL REQUIREMENTS:
:elinquished)	Name	Agency	Time	
gnature	Printed	Company/	Date/	,
eceived)	Name	Agency	Time	
gnature	Printed	Company/	Date/	1
elinquished)	Name	Agency	Time	
inature	Printed	Company/	Date/	
eceived)	Name	Agency	Time	



TRUESDAIL LABORATORIES, INC. 14201 Franklin Avenue, Tustin, CA 92780-7008 (714)730-6239 FAX: (714) 730-6452 www.truesdail.com

CHAIN OF CUSTODY RECORD

[2006-GMP-115-Q4] TO

TURNAROUND TIME 10 Days
DATE 12 PAGE OF

COMPANY	E2				0	1	1/	4	-)	a	/		_	<u> </u>	<u> </u>	/	_/	' /	///	COMMENTS
PROJECT NAME	PG&E Topoc	k			7	D/	/ ,	P		P.	/ /	E /	1 /	A	LA	ER.	TA	1/	7///	
PHONE	(530) 229-330	D3 F	-AX (530) 339-3303		/	/ /	/ /	/ /		Feed Fillered Co.	E /	7	-	-	-	1	1	/ /2/	
ADDRESS	155 Grand Av	ve Ste 1000				/		/5	-/	/	188	7	<i>I</i>	2 15.	H-1	/TT	4 §,	m	CONTAINERS	
U	Oakland, CA	94612				Me G	18	18	/ .	/	Tage Fill	/	Rec			12/00		B.	[\xi \]	
P.O. NUMBER	338234.GM.0	02.00	2		/	18	Lab Filler	Light /	1	17	8		3 234 /	91	67	51	9	/	/s/	
SAMPLERS (SIGN	ATURE <u>M</u>	t phi	<u> </u>			CAG (7100) Lab Fillered		PH(150 " Orditriance (120 ")	800		Se	Şa	mp	le (ton	dit	on	s	AND THE PROPERTY OF THE PROPER	
SAMPLE I.D.		DATE	TIME	DESCRIPTION	18	80.83	100	PHCIS	18/	Pierk	Se	e	OVI	n	itia	che	d	15		
MW-43-0	70-110	12/12/06	6847	Gw		X	X	Х		X				****	Tee			. 3	DH - 2	
		12/12/06		Gw	8	X	Ķ	Y		K								3	DH - 1	2
MW-43-09		12/12/06		GW		X	X	Y	X	X	\neg							3	OH - 3	
MW-34-0		12/12/06		Gw	T	•	X	X				T					T	1	pu-7	
MW-34-1		· , ' ,		ew	\forall		X	V		Y						7		3	DH -	2
MW-39-10		12/12/06	- 20	GW	+^		X	\checkmark	1130	1				7				ι	DH - 7	Z .
MW-44-1	115 - 115	12/12/06	1450	000				Ц.		-510				30				14	1	ER OF CONTAINERS

. CH	AIN OF CUSTODY SIG	SNATURE RECORD		SAMPLE CONDITIONS
Signature (Relinquished) Nut 1/2	Printed Next Aingier	Company/ c.c.	Date/ 12/12/06 Time /530	RECEIVED COOL WARM WARM
Signature (Received) WowskovA	Name MANGARUTA	Agency E2 I	Date/ 12/12/06 Time 12/12/06	CUSTODY SEALED YES NO
Signature (Relinquished)	Printed Name	Company/ Agency	Time	SPECIAL REQUIREMENTS:
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	<u> </u>
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	1
Signature (Received)	Prinled . Name	Company/ Agency	Date/ Time	

OGL155

EMAX Laboratories, Inc. 1835 W. 205th Street, Torrance, CA 90501 Tel: (310) 618 8889 Ext. 119 Fax: (310) 618 0818 Joe Kelbley jkelbley@emaxlabs.com

CHAIN OF CUSTODY RECORD [2006-GMP-115-Q4]

06-1-0

COC Number

TURNAROUND TIME	12	Days	
DATE 12/12/06	PAGE	OF	_

COMPANY	E2					$\overline{}$		/3	200	\mathcal{I}	\mathcal{T}	/	/	/	/ /		//		COMMENTS
PROJECT NAME	PG&E Topock	GWM			1	1	/2	a.Mg.	/	/ /	/ ,	/ /	/ /					////	
PHONE	(530) 229-330	3	fax <u>(</u> 530) 339-3303		Some	Title	62/	/	' /							/	/ / / /	
ADDRESS	155 Grand Ave Oakland, CA 9	25					W Fillian	ield Fillion	88	W.NO3W	//	/ /	/ /	/ /	/ /	$^{\prime}$ $/$	$^{\prime}$ $/$	VIAMMERS	
P.O. NUMBER	338234.GM.02	2.00 Uz-			Dissintens tomost nears	Diss Meals (60)08) Field To	als (60708) Fie	Alkainy (370) Fial Fills	(30)	Br.Cl. SQL,NO3N	/	/	/,	/,	/ ,	/ /		WINDER OF CONTAINERS	
SAMPLE I.D.		DATE	TIME	DESCRIPTION	STATE OF	Diss M	Dissin	Alkalini	Anions	/ /	/	/	/_	\perp	\angle	\angle	NEW		· · · · · · · · · · · · · · · · · · ·
MW-34-08	0-115	12/12/06	1107	GW		X	X	X	X										-
				19175.00															
				- Committee															
													T						
																			BENCO: COMM
			electric de la constant de la consta					-		-			-	-			1	TOTAL NUMB	ER OF CONTAINERS

С	HAIN OF CUSTODY SIG	SNATURE RECORD		SAMPLE CONDITIONS
Signature (Relinquished)	Printed Maff Ringiel	Company/ Agency EZ	Date/ 12/06 Time 15>0	RECEIVED COOL □ WARM □ 1-3.5 ℃
Signature (Received)	Printed A. GALLU	Company/ Agency ∈ MA ×	Date/ /2/13/06 Time /2:00	CUSTODY SEALED YES NO
Signature (Relinquished)	Printed Why WGARO/11	Company/ Agency T - Z - Z	Date/ /2/ 12/0 Time /2:0	SPECIAL REQUIREMENTS:
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	
Signature (Relinquished)	Printed A . GALI CIAL	Company/ Agency EWNYC	Date/ /2/13/05 Time /455	
Signature (Received)	Printed A Puntomi	Company/ Agency	Date/ Time / UT	

	_	_	•	
ŕ		f	7	٦
1		ł		
ι	4	Ш	_	لرو
	_		,	

COMPANY

PHONE

ADDRESS

P.O. NUMBER

SAMPLE I.D.

(Received)

SAMPLERS (SIGNATURE

PROJECT NAME

TRUESDAIL LABORATORIES, INC. 14201 Franklin Avenue, Tustin, CA 92780-7008 (714)730-6239 FAX: (714) 730-6462 www.truesdail.com

155 Grand Ave Ste 1000

steer

DATE

Name

TIME

Oakland, CA 94612

338234.GM.02.00

FAX (530) 339-3303

DESCRIPTION

Agency

E2

PG&E Topock

(530) 229-3303

(CHA		F CI 96-0				COF	RD	[TIME		10 PAGE		ys OF	•
The state of the s	Of Case Office of the Case Offic	Con Classification Laboration	Special Confidence	pH(150.	1 () () () () () () () () () (Dissing.	S (SO) OB) Final Fa.	William Committee	Rec'	12/1	11.02		N. Market	SER OF CONTRAINS		7	coi	MENTS	
	• -	X	X	X		×	W					. 3	3		P	4-	2		
	•	X	×	X	.•	×							3		-)4 -			
	_	_		_	_	_	_	_	 _					7	-				

MW-23-115	12.17.06	10:5	Gw		X	×	X		X			3	P4-L	_
MW-91-115				•	X	×	X	••	×			3	p4-2	
MW 21-45			- 0 -	-	X	× :	-	<u>-</u> -	<u>×</u>			 2	DW'	
14W-51-115	12:120	122	Gw	X	*	×	×	*	×			3	p4-2	_
MW-50-200				×	K	X.	×	٠	×			 3	p4-2	
NW -50-095	12.17.06	1300	GW	X	*	×	X	٠.	X			3	24-2	
	12/1400				X							 Ц	pH - 7	
												 3		
			×								100 months			

	CHAIN	OF CUSTODY SIG	SNATURE REC	ORD				SAMPL	E CONDI	TIONS
Signature (Relinquished)	Kern Prin	nted Wina KriB	Companyl CH Z	WHILL		12.12.06 15:30	RECEIVED	COOL 🗆	WAF	RM 🗆
Signature (Received)	MAVEREUNE Pris	nted Marcara	Agency T.L	I	Date/ Time	2/12/06	CUSTODY SEAL	ED YE	s 🗖	NO [
Signature (Relinquished)		nted	Company/ Agency	0	Datei Time		SPECIAL REQUIREM	IENTS:	A Heavis a	22 2
Signature (Received)	Prit Nar	nted me				onditions				
Signature (Relinquished)	Prir Nar	nted me	Company/ Agency	See Fo	THE AL	tached				
Signature	Prin	nted	Company/		Dalcí					<u>_</u>

Time



TRUESDAIL LABORATORIES, INC. 14201 Franklin Avenue, Tustin, CA 92780-7008 (714)730-6239 FAX: (714) 730-5462 www.fruesdail.com

CHAIN OF CUSTODY RECORD [2006-GMP-115-Q4]

TURNAROUND TIME 3 16 Days

DATE 12/12/06 PAGE OF

~ """	404444																				-	
COMPANY	E2						7	7	$\overline{}$	7	-/	\neg	1	2/	1	1	7	-/	2/	11	7	COMMENTS
PROJECT NAME	PG&E Topock									/	/	/_		11	7		D	C	2/5	7 / /		
PHONE	(530) 229-330	3	FAX (530) 339-3303			Ι,	/ ,	/ /	Ι,	/	Salling .	/ `	1	/ *	1	I	1	11			
ADDRESS	155 Grand Ave Oakland, CA 9	SIND GAS	_			Eller.	, / _B	(130.2)		/	A Par	Meteo Onomiem	1	R	ec'd Ma		2/13 31 5		4 /	CONTRINETS		
P.O. NUMBER	338234.GM,02	2.00			1	SE FILL	100		/ /	Ε,	188	/ ,	/_	;	AL		X I	/ <u>!</u> !	/ /	[8]		
SAMPLERS (SIGN.	ATURE	Nj.	4		8(1)8	CAS (TISE) Lab Fillered	Specific Lab Fillered	PH(150 ", 120 ".	105 (180.)	SME	100/			-9	ve	1/1	T/	1	N. Carrie			.
SAMPLE I.D.		DATE	TIME	DESCRIPTION	18	18	13	Ha	\sq	18	_	$m{/}$	_	_	_	4	_	_	18		_	
mw-44-1	25-115	12/13/06	1013	6-W		X	X	X		X								L	3	P4-0	<u>z_</u>	
MW-46-1	75-115	12/13/06	1330	GW		X	Ý	X		X									3	p4-9	ģ.	
							100	,														
						,																NI - 2.4 - A. I.
				110	ال						.se.			-								
•			H	A91			-	-	1	·Jr	Sa	m	ie	Co	nd	tio	ns		75230			
			~	*	H	r			+	S	e.	01	m	417	ac	Par	, .				7.1	
			-						Ł	-		-				4 G. F.						/// W.
	<u> </u>													- 1	ž.						72.005	
				-			12 j										100				9455	
			CUSTO	DY SIGNATUR	_	CO	RD					- 127						SA	MPLE	CONDITIONS	\$	
Signature (Relinquished)	wells.	Printed Name	Mutt	Company/	E	2			Dati Tim	8	153	000		R	ECE	VED	C	OOL		WARM [1 .	°F
Signature (lan corror		7 1	Company/	t-	L -	T		Oat Tim	e/ / e	2/	13/	06 20	٥	USTO	DY S	EALE	D	YES	on □		
Signature (Relinquished)		Printed Name		Company/ Agency					Date Tim					SPE	CIAL F	REQUI	REME	NTS:	-9-7	** **		
Signature (Received)		Printed Name	<i>,</i> — — — — — — — — — — — — — — — — — — —	Company/ Agency	ří	(a)			Date					1								
Signature	4-1	Printed		Companyl			ede se		Date	e.F				1								
(Relinquished) Signature		Name Printed		Agency Company/	7.				Time Date					ł								
(Received)		Name		Agency					Tim											14		



TRUESDAIL LABORATORIES, INC. 14201 Franklin Avenue, Tustin, CA 92780-7608 (714)730-6239 FAX: (714) 730-8462 www.truesdail.com

CHAIN OF CUSTODY RECORD

[2006-GMP-115-Q4]

TURNAROUND TIME 10 Days

DATE 12/15/06 PAGE OF

~				75										- 650 - 500				0.0		5 A TOTAL TOTAL		V 5 - 15 C		
COMPANY	E2						1	1	- /	7	\Box	-/		2/	0/	1/		2	4	-7	Γ	7	СОМИЕ	ENTS
PROJECT NAME	PG&E Topock	<u> </u>						,				/_						2/	4		//		COMMI	1113
PHONE	(530) 229-330	3	FAX (530) 339-3303			/	/ ,	/ ,	/	Selection Field Fig.	Sulfa Sulfa	/ ,	/ ,	/ /	/	/	/		/ /				
ADDRESS	155 Grand Ave	e Ste 1000	10				/			1	' /	\$ /	/	1		- /	/	/ /	/ /		\$/			
	Oakland, CA 9					/ }	7/2	18	7	/	14			/			/	/		Įį.		•		
P.O. NUMBER	338234.GM.02	2.00				CAS COTOS LAB FILENDA	Specific Lab Fillered	PH(150 -	Ι,	/	19 Fee	$/\Gamma$	7	AL	/r	4	Į.,	/	/	SEER OF CONTAINE	/-			
SAMPLERS (SIGNA	TIME MAG	Wir	•			\$ / E	\E		/	_ /	80/	1/	4	7	-4	1	24	' /	/ /	<u>ي</u>				
SAMPLERS (SIGN	ATURE /VVG	14/			/§	8/8	3 / 3		718/180			1	_e	Ve	1/1	1	1	7/		9/		12		
SAMPLE I.D.		DATE	TIME	DESCRIPTION	/8	/8	13	Ha	18	18		/·	+	J",	/ ĵ	/ ·	13		1		5			
mw-46-2	205=115	12/13/06	1207	GW		X	У	γ		X										P	4-2			
MW-33-15		12/15/06	1424	GW		X	X	X		V						Ĭ Į				6	u .2			
		113,5				_		•							11114	28 - 271A				1				
																						e estat	924 - 1935)	
											or s	· ~ ×	4					┢	1					· V
W. 19 100 100											<i>7</i>] =	201	10	e C	On	dit	101	5	┢					
					_		_		_		Se	<u> </u>	pre	n A	tia	ch	ed							
									-		~~ ~-	-V v Newsys as		The Delivery of the				<u> </u>	—					
																			上					
									1	- 4		-												
	C	HAIN OF	CUSTO	DY SIGNATUR	E R	ECO	RD											S	AMPLI	E COND	DITIONS			
Signature (Relinquished)	whi	Printed Name	vH h.	Company/	E	Z		•	Oat Tim	0	1530)		R	ECEIV	ED	C	OOL		W	ARM 🗍			°F_
Signature (Received)	lovason	Printed .	MEAR	Company/	7	` _)	<u> </u>	•	Dat Tim	e/ 12	2/1.	2/د	06] _C	USTO	DY SI	EALE	D	YES	s 🗅	NO	П		
Signature (Relinquished)	IN PROVINCE	Printed Name	- Post / C	Company/ Agency				102 - 2	Dat	e/				-	CIAL R			165		-	7,070			
Signature	***	Printed		Company/					Dat	e/					JINL IL			170.						
(Received) Signature		Name Printed	2-52	Agency Company/					Tim Date					ł										
(Relinquished)		Name		Agency					Tim	е														
Signature (Received)		Printed Name		Company/ Agency					Date Tim			9												



TRUESDAIL LABORATORIES, INC. 14201: Franklin Avenue, Tustin, CA 92780-7008 (714)730-6239 FAX: (714) 730-6462 www.truesdail.com

CHAIN OF CUSTODY RECORD

[2006-GMP-115-Q4]

TURNAROUND TIME 10 Days

DATE 12/13/01 PAGE OF

~	702										1000		12611		53455								
COMPANY	E2				1	2/		4	7		7	\mathcal{T}	<i></i>	/	1	1	1	-/	-/		//	CC	MMENTS
PROJECT NAME	PG&E Topock				9		1	D			9	/_/		//	/	E	ΚI	1		/	/ /		
PHONE	(530) 229-330	3	FAX (530) 339-3303	•			Ι,	/	Ι,	/ /	and Oronium	1		ı₽	1	17	r 1)	$\sqrt{2}$	/ / .	,/		
ADDRESS	155 Grand Ave	Ste 1000				-/			_/			$\hat{s}/$	1	^ <i>f.</i>	1	1	1	_ /:	7	CER OF CONTINUEDS			
	Oakland, CA 9	4612	_			CAS CAS LAS FIREBUL	/ (2	PH(150 Conductainse (120	7		A P	/ /	1	Ι.	/	/	/	/	/	B	/		
P.O. NUMBER	338234.GM.02	2.00			١.	1	1		/	Ι.		/	D	, ,	12	13/	06		/ /	8			
		Treb	OQ.	es 	I/I	₹/ E	3/		/ /	_/	8 /		Ke	c'd				:/		Ž			
SAMPLERS (SIGNA	ATURE	· I well			1/8	8/8	8/4	2 \ E				1 ,		·" {	96	ָרָי י	65	,	1				
SAMPLE I.D.	*	DATE	TIME	DESCRIPTION	8	/ <i>8</i>	Specific State Filler	Ha	78 (18.1)	18	\angle		_/			/	_	_	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
MW-IZ	-115	12/13/00	10:05	aw	X		X	X		X						2.600-5.0			3	PI		,	
MW . 20 .	\$2000 and the second	1211400	13:20	aw	X	*	X	X	X	X						-246	7 1 529		3	24	1-2		
Mw-20-	Ke 35 00 555.00	121300	11:45	aw	X		10	K	X	X		1,1=9			\neg			38	3	OU	/ - 2)	
			1.50	aw	X	•	1	X	X	X			7	T		-6			3	04	1 -2		
	1490 - 115			The second secon	X			U	K	V	\vdash		4	_	コ				3	1	- 5		
	130-115	121300		aw	_		1		·	1		יותי	1	mp	10	2	MA		3	100	1	,	
	2-112	12/13/06	These own	aw	X	19	_	Ą.	<u>^</u>	2	-	10 D	2		- C	, O	216	111	ゴ	PH			
MW-21		12/13/06	10:40		<u> </u>	Ÿ	Λ	X		X	_	25	C N	For	m	411	36	K. 12.	2	PI			
MW. 40	D-115	12/13/06	9:00	aw		X	X	X		X				-	_	*****			2	ри	-2	-	
	•6			20		18-3155										_ ,							
		CHAIN OF	CUSTO	DY SIGNATUR							117	T 1784						SA	MPLE	COND	ITIONS	9	
Signature (Relinquished)	entrelle	Printed S	ub Tre	Company/ Agency	CO	i	. H	tll	Da Tir	ne/7		30		RE	CĖIV	ED	CC	ЮL		WA	RM 🗆	_	°F
Signature	1	Printed (1	Company/	7	-1		5	Oa Tir	ile/ /	2/1	2/0	6	CU	STO	Y SE	EALEC)	YES		NO		
(Received) / Signature	PUBRUT	Printed Compa								ile/	ac	1, 222		SPEC	IAI RI	OUR	EMEN	TS:		5 10 St 2			
(Relinquished)	his Ave	Name Printed	Agency Company/		-			Da	te/	-		_	5, 50										
(Received)		Agency Company/					Tir	ne ite/			\dashv												
Signature (Relinquished)	ed) Name Agend								Tir	ne													
Signature (Received)	*	Printed Company Name Agency							Da Tir	ite/ ne		3									·		

06 L177

EMAX Laboratories, Inc. 1835 W. 205th Street, Torrance, CA 90501 Tel: (310) 618 8889 Ext. 119 Fax: (310) 618 0818 Joe Kelbley jkelbley@emaxlabs.com

CHAIN OF CUSTODY RECORD [2006-GMP-115-Q4]

COC Number

TURNAROUND TIME	12	Days	5	
DATE 12 13/06	PAGE	•	OF	

COMPANY	E2						_/	-/	7	Na,B	7						-/	-/					COMMENTS
PROJECT NAME	PG&E Topock	GWM					1	/~	a.M.	5 /													·
PHONE	(530) 229-3303	· 1	-ax <u>(530</u>	339-3303			Selling.	Tille	162,C	/	/ /	Ι,	Ι,	/	/ ,	Ι,	/ ,	Ι,	/ ,	/ ,	101	/	
ADDRESS	155 Grand Ave		-		Dismension.		5	Diss Marie 180 108 Field Fills	ded III	Tillered		<u>*</u> /								OFR OF CONTAIL	NET		
	Oakland, CA 94		arra n	Si .		THE STATE OF	Fig.	E Play	Fig. 1		SON					/-				SE SE			
P.O. NUMBER	338234.GM.02.	00 0	0	9 11111111			\$010g	180/	AD(A)	12/	Br.C.	/ /	/ /	/ /	/ /	/ /	/ /	/ /		97.0 0			
SAMPLERS (SIGNA	ATURE VI	Trest	K.		Sells Sel) sials (als fa) Siens	18/										J. J			
SAMPLE I.D.		DATE	TIME	DESCRIPTION	ASS.	DissA	Diss	DissA	Alkalinica	Anion	300) B; C; SO4, NO					\angle		/-	1		,		
MW12	2-11.5	12/13/06	10:05	aw		X		X											2				- Williams
	0-070-115	12/13/0	13:20	GW			X	X	X	X									3				221000
mw-20-	100-115	12/13/06	11:45	aw	7		. •		术	Χ.									2				
mw-9	0-115	12/13/06	11:50	aw	X		••		X	X					-				2				
22 100 100 100 100 100 100 100 100 100 1	0-130-115	12/13/06	14:40	aw			X	X	X	1	٠.								3				
	5-11.5.			aw			X	X	X	X									3				
								<u> </u>							<u> </u>	<u> </u>				TC	N JATC	NUMBE	ER OF CONTAINERS
										7.	3-1)						1		L			

CHAIN OF CUSTODY SIGNATURE RECORD SAMPLE CONDITIONS 12/13/06 Printed Name Company/ Agency Date/ (Relinquished Signature COOL [WARM | RECEIVED Time Printed Company/ Date/ 121406 Signature **CUSTODY SEALED** YES NO \square Time (Received) Name Agency 1214.00 Date/ Company/ Signature Printed (SPECIAL REQUIREMENTS: Agency Time (Relinquished) Name Company/ Agency Date/ Signature Printed Time (Received) Name + Date/ Printed Signature Company/ Time Agency (Relinquished) Name Date/ Printed Company/ 'qnature Time reived) Name Agency



TRUESDAIL LABORATORIES, INC. 14201 Franklin Avenue, Tustin, CA 92780-7008 (714)730-6239 FAX: (714) 730-6462 www.truesdail.com

CHAIN OF CUSTODY RECORD

[2006-GMP-115-Q4]

TURNAROUND TIME 10 Days
DATE 12/14/06 PAGE OF

V	nesosir colis																		,-/.	400		LYCE		٠, -	-
COMPANY [≣ 2			2000 - Sevilla VIII -			7	1	$\neg T$	7	7	-/	-/	7	1	1				7	T	7			_
PROJECT NAME	PG&E Topock									/	/	/_			/	/	/	,	- '		/	/	COMM	IENTS	
PHONE ((530) 229-3303	3	FAX <u>(530</u>) 339-3303		,	Ι,	/ ,	/ /	/	/ /		Ι,	Ι.	/ 1	Rec'		12/1	4/06		[.]				
Cr (10000000000000000000000000000000000	155 Grand Ave Dakland, CA 9		_							/	COUNTRY FEBRA FRIENCE				/	0	/	9 O	16	13 Minumo					
P.O. NUMBER 3	338234.GM.02	.00 .	= -5.			D FIRE	Page	(Sarage	//	<i>'</i> /	P) Fig.	/ /	Ι.	/ ,	_	\angle	_	_	\angle	8	<u>_</u>		#£		
SAMPLERS (SIGNATE	JRE	1/	W			COS (Trees Lab Fillered		PH(130 DALCTON	(ion)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0000	/	/		1	1	14	EP	T						
SAMPLE I.D.		DATE	TIME	DESCRIPTION	18	8	Special	HU	728 (180.1)	Nago		/ /	/_	/	/L	ę۷	el		3	Q C	,				
MW-36-040	1-115	17/14/66	1024	(vw		X	X	X		X				L						7					
MW-36-070	11S	12/14/06	1115	(rus		*	Y	X		X									* 2/		7				
MW-93-115	ž	12/1-106	400	(gw		X	X	X		1											/				
MW-39-09	10-115	17/14/06	1252	6W	Ϋ́		X	Y	/	$\langle $				2							"	VP.	<u>H=</u>	1	
Mw-39-07	70 - 115	12/14/06	1355	GW	Χ		χ	X		X			_(-		_			_	5 S ,			
MW-34.04	0-115	12/11/06	ju130	bw		X	X	1		X				Fo	S	anı	ole	0	2000	itio		1_		3000== H1=	
Z.													Ц	S	ee	Eo	rm	A		hed	ns		12/12/		
										_	_		L	_				71	at	ried					
																							ķ.		
	C		CUSTO	DY SIGNATUR	i ikkr-ag	CO	RD				7 . /			•				S	MPLE	COND	ITIONS	3			
	Allin	Printed Name (A)	utt Bi	Company/	120	<u> </u>			Date/ Time	1	//*// 530			R	ECEN	/ED	C	OOL		WA	ARM [] ,		°F	
Relinquished) A Name Aut hinger Ager Signature Printed Printed Com Name Name Aut Com Name Name					7	<u> </u>			Date/ Time	/5	20	1-00	Ó	C	USTO	DY S	EALEI	D	YES		NO				
ignature Printed Compa Relinquished) Name Agenc									Date/ Time				8 1	SPEC	IAL F	EQUI	REMEN	ITS:				-	- 5		\dashv
Signature (Received)	gnature Printed Compat eceived) Name Agency								Date/ Time	4.															
Signature									Date/ Time	Į.															
Signature (Received)	gnature Printed Comp								Date/ Time		1900			DE TREESE						*					

TRUESDAIL LABORATORIES, INC. 14201 Franklin Avenue, Tustin, CA 92780-7008 (714)730-6239 FAX: (714) 730-6462 www.truesdail.com

CHAIN OF CUSTODY RECORD [2006-GMP-115-Q4]

TURNAROUND TIME 10 Days
DATE 12.14.06 PAGE 1 OF

www	.truesdall.com																UF	···E_	10	, 14,	06 P	AGE _	L OF	_
COMPANY	E2			· · · · · · · · · · · · · · · · · · ·	Π		-/	7	T	7	1	7	7	7	7	7		7	7	1. /	T	7	COMMENTS	
PROJECT NAME	PG&E Topock						/					/_					/	/	/	/	/ /		OMMENTO	
PHONE	(530) 229-3303	3	FAX <u>(530</u>) 339-3303		,	/	/	/ /	Ι,	S (B) TOB FOR FILE		Ι,	/ ,	/ /	/	/	/	/	//	_/			
ADDRESS	155 Grand Ave	Ste 1000						' /	_/	-/		/ ۾				1	1	/ /	/ /		ž/			
	Oakland, CA 94	4612				Page 1	1/3	1/8	ğ/		\# #		/	/	1	1	/	,	/	RES	/			
P.O. NUMBER	338234.GM.02.	.00_		· · · · · ·		18 FE	the Filter		/ /	Ι,	(80) Fill	/	3.55	Rec'			14/0		1	[8]				
SAMPLERS (SIGN	ATURE States			-	/8	F 8	F /	8/	a / 5		& /	1		s240	9	61	6,1	4,		£ /				
spengaroona se sueser		21.28v247733	TIME		8	CAS (7100) Lab Fillered		PH (150 Cordictaine (120	728 (1807)	S Me	7	/	/	/		/				THE CONTAINE	7(4))			
SAMPLE I.D.	7 00 115	DATE	DESCRIPTION	10	X	8	Y	/~ 1	X	\vdash	\r	\models			_	\leftarrow	\leftarrow	3	\leftarrow				_	
	8-90-115	GW	\vdash	^	~	(\vdash	\odot		+	-	AI	F	7		+		-			¥61	_		
	14-070-115		GW		\mathbf{X}	Х	X		Х		4		-		T	Щ	-	13						
MW-	42 -065-115	12.14.06	GW		X	\boldsymbol{x}	X		X		IL	.01	/ e		TT		上	13						
	42-055-118				×	X	X		X]	+) 	1	11	IQ	C	13						
September 1	47 -055-115	100 miles			X	×	×		×			77.5				-		3		15 15 30 0.0	3. 14.13 <u>- 38.</u>			
	-47-115-115		and the second second in			X	×	×		メ			524						3					
7 MW-	33-040-115	12.14.06	15:15	Gw	*	×	×	×	()	×								-	3	тот	AL NUMB	ER OF C	CONTAINER	s
8 € 3										1	Fo	er S	an	ıp!	e C	on	di	ior	IS					
												C~.	~ E	orn	n A	er.	Ah	ad		Š				
	С	HAIN OF	CUSTO	DY SIGNATUR	RE RI	ECO	RD		92			9£(UII.	шн	LLO	ننما		Server negrocetic	E COND	ITIONS			
Signature (Relinquished)	1505	District		Company			-		Dat Tim					R	ECEI	ED	c	OOL			ARM 🗆	y/	°F	
Signature // (Received)	elinquished) Name Name Name Cor								Dat Tim	e/15	LIV		56] c	USTO	DYS	EALE	D.	YE	s y a	NO			
Signature (Solved) [[A solved] [A solved]								Đạt Tim		0.	10		SPE	CIAL R	EQUI	REME	NTS:	115	-		14 =-		91.5
Signature		Company/	· ·				Dat	e/																
(Received) Signature		Agency Company/	,			-	Tim	_			-													
(Relinquished)		Agency	···		1		Tim	-																
Signature (Received)		Company/ Agency	N.	1			Date Tim				•						Constituted at 150							

961614



TRUESDAIL LABORATORIES, INC. 14201 Franklin Avenue, Tustin, CA 92780-7008 (714)730-6239 FAX: (714) 730-6462

CHAIN OF CUSTODY RECORD [2006-GMP-115-Q4]

TURNA	ROUND TIME	10	Days	
DATE	12/14/05	PAGE	OF	

WWW	.truesdalf.com																				e e e e e e e e e e e e e e e e e e e	
COMPANY	E2				T		7	\neg	7	7	7	\neg	7	7	7	7	7	7	7	TT	Τ	COMMENTS
PROJECT NAME	PG&E Topock		g.	<u>t.</u>				/				/_	/	/	/	/	/			///		
PHONE	(530) 229-330	3 1	-ax (530) 339-3303		1	/	/	Ι,	/	Sales (B) (B) Flow Fig.	Something!	/ /	/	/ /	Ι,	/ /	/ /	/ /	/ / / /		
ADDRESS	155 Grand Ave	e Ste 1000	18			- /	1	/ /				8/		/		- /	-/	/		SER OF CONTRINETRS		
	Oakland, CA 9	and the second s				CAS (77.00 Lab Fillbred	r/s	PH(150	7		/A		/	/			/	/		N SE		
P.O. NUMBER	338234.GM.02	2.00	- ^		١,	A LA	Speck. Jab Fillerer	la la	/ .	/	18 P	Ι.	/ /	/ ;	Ι,	Ι,	Ι,	Ι,	/ /	[8]		
29	77.	<u></u> 0	NO.			2 /	18	John J		_ /	8/			-/	- /		-/			<i>[</i>]		
SAMPLERS (SIGN.	ATURE		14V	25	1/8	8/8	3/			1/3	/	/		/		/		/	18	<i>[]</i>		
SAMPLE I.D.		DATE	TIME	DESCRIPTION	8	/ 8	18	HA	718 (Jan.)	18	/_		igspace	<u>/_</u>	\angle	_	\angle		3	L		
Mw-24	15-115	12/14/00	1120	CW.	X		X	X		X									3		200.00	
1 21	4A-115	12/14/06			X	144	X	1	Ī	X									3		55.50	
MW	- 10.5		9596	GW	X		X	X	T	X							370.01	24	3	\$00 and \$00 an	F-343	-50%
mw-10	- 11 5	12/14/06	and the second second		X		X	X		V	\vdash								3			
	70 -115	12/14/06	1470	aw	1	V	* `	1	 	Α.	-				-		\vdash		1	5	-	
EB-11	5-9	12/14/06	500	aw		Δ	.*		-	-	-	F	==	=	1	=	1-	_				
	*			٠			_	•				AL	EB		<u> </u>		_					
				√ *		7	4.	* *		-			T	T	Δ	2						
	•	: •		w si		•	•			Į. L	e	ve.	Ţ		7	~			*			
	*	 	*				1	100	T	-												
		CHAIN OF	CUSTO	DY SIGNATUR	RE R	FCC	RD					7109		Г	- 1990			S/	MPL	E CONDITIONS		
Signature 7	-000								De	rte/ /	2//	प्रा	6	1 .	RECEI	VED	C	OOL		WARM [°F
{Relinquished	ature Printed Bob Turloble Ag						- 0	Tell	, Tit	ne rte/17	ig Vil										Ann	
Signature (Received)	ture (Ved) / Angel Bloom N. 15. Ager						I		Tit	ne ite/		8	0	_ (CUSTO	DDY S	EALE	D	YES	S D NO		
Signature (Relinquished)	an es	Printed Name		Company Agency	١,			255		ne	•			SPE	CIAL	REQU	REME	NTS:				
Signature	e Printed Co d) Name Age									nte/ ne												
(Received) Signature	ature Printed Con							-	Da	rte/				1		\$0						
(Relinquished)	linquished) Name Ager							-	Tir Da	ne rte/				1								
Signature (Received)	graduo A									ne			n.	丄								

06 L 197

CHAIN OF CUSTODY RECORD

[2006-GMP-115-Q4]

TURNAROUND TIME	12	Days	
DATE 12/14/00	PAGE	1 0	

EMAX Laboratories, Inc. 1835 W. 205th Street, Torrance, CA 90501 Tel: (310) 618 8889 Ext. 119 Fax: (310) 618 0818 Joe Kelbley jkelbley@emaxlabs.com

																			/	124		
COMPANY	E2			United to	T		7	$\overline{}$	Allialing CATOA) Field Fin	N/a'B	7	7	7	$\overline{}$	7	7	1	7	7	17	COMMENTS	
PROJECT NAME	PG&E Topock	GWM						/~	a.Mb.	6/											35.5411U 15MM F	
PHONE	(530) 229-3303	3 F	ax (530	339-3303		į		Tile?	(e.22)	Ι,	/ /	/ ,	/ /	/ ,	/ /	/ ,	/ ,	/ ,	/ /	/ / _/		
ADDRESS	155 Grand Ave	Ste 1000		2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				Pagg /				<u> </u>							1			
	Oakland, CA 94	4612	_				PA PO	A P	ied F		18	?/		/			/			NAZA		
P.O. NUMBER	338234.GM.02	.00	'n				18	189 F	100/1	/ /	Sicis	/ /	/ /	/ /	/ /	/ /	/ /	/ ,	/ /	[8]		
SAMPLERS (SIGNA	ATURE DW	rell			Dischaens tonn	Diss Meer, Callok	9 / 1	86	Allialing C 1704) Fied E.	0.00	Br. Cl. SON, Mes.									JEROF CONTAINERS		
		ATAN COMMONS			STATE	ISS Me	S Me	188/14	Kalini	Piors		/				/	/	/		?/		
SAMPLE I.D.		DATE	TIME	DESCRIPTION	P	0	a	19	1	4	_				\leftarrow	/	_	$\overline{}$	\leq			
MW-10	-115	12/14/06	1340	aw		X		入											1			
MW-3	70-115	12/14/06	1450	GW	X		· •	X	• •										2			8
					•				. 🐲	•												
									٠.													
		.,. 2					•		•	••			i i									
	Via Sk						• •	•		•									÷		¥	-
							D W RE-							<i>*</i>								
		damento.					3.18923							1014						TOTAL NUMBER	R OF CONTAINER	s
										323												

∩	AIN OF CUSTODY SI	GNATURE RECORD			AMPLE CONDITIONS	9 0,0
Signature (Relinquished)	Printed (Company/CHem Hell	Date/ 14/00 Time 1530	RECEIVED COOL	□ WARM □	<u>۶٬۷ °F</u>
Signature (Received)	Printed Dul Hatcher	Company/ Agency FMAX	Date/ 12 15 05 Time 12 12 00	CUSTODY SEALED	YES NO	1
Signature (Relinquished)		Agency EMAX	Date/ 12: (SO)	SPECIAL REQUIREMENTS:	2	
Signature (Received)	Name INDRA PATE	Agency ENLAX	Date/ 12 - いー つる Time 13 20		e ^c	
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time			
Signature (Received)	Printed Name	Company/ Agency	Date/ Time		(1)	40100-00-00-00-00-00-00-00-00-00-00-00-00

Scan

961638



TRUESDAIL LABORATORIES, INC. 14201 Franklin Avenue, Tustin, CA 92780-7008 (714)730-6239 FAX: (714) 730-6462 www.truesdail.com

CHAIN OF CUSTODY RECORD [2006-GMP-115-Q4]

TURNAROUND TIME . 10 Days

DATE 12 15 0 C PAGE OF

	V																				J. U			— "	_
	COMPANY	.E2						1	1	7	7	7	1	7	7	7	7	7	7	7	7	T	7	COMMENT	re
	PROJECT NAME	PG&E Topock											/_	/	/		/					11	/	COMMEN	15
	PHONE	(530) 229-3303		FAX (530)	339-3303	2	,	Ι,	Ι.	/ ,	/ /	S(60)09) Red Files	Tomin's	/ /	/ /	/ /	/ /	Ι,	/ ,	Ι,	Ι,	[]			
	ADDRESS	155 Grand Ave	Ste 1000							_/			9/	/	/	/	/					ğ/			
	v'	Oakland, CA 94	1612	_			1	/8	18	ž /	/	K P		/	/		/	/	/		18	? /			
	P.O. NUMBER	338234.GM.02.	.00_			1	18			/ /	/ /	(80) H		/ /	/ /	/ /	/ /	Ι,	/ /	/ /	8	/			
	SAMPLERS (SIGNA	TURE tus				/8	CAS (7) Cab Fillered		PH(TSO PH(TSO	· /:		8/	/	/	/	/	/		/	1	Ser OF CONTAIN				
						[]&	18	18	HUSO	786 (180)	1		/	/	/	/	/	/	/	1					
	SAMPLE I.D.		DATE	TIME	DESCRIPTION	/8	/&	18	1	/ <u>g</u>	8	\Box	_	_			_	<u> </u>	\Box	[₹					_
1	MW-3:	3-090-115	12.15.00	9:13	CW		X	X	X		×									•)	i			
2	Mw-9	4-115	12.15.06	9:15	Gw		x	X	x		x			-54	17-2-110				- NO.0	*					
3	Mw-4	9-275-115	12.15.06	11,10	GW		¥	Ų.	×		×		1 1 20 33						5	3.5	Δ	PH	1		
4	Mir-4	9-115-115	12.15.06	11:40	Gw		k	¥	4		Y										Ź		-	*:	
5	TY 165 165	19-365-115	No		Gw		×	X	*		×	Mark Co.	ue								Ì	8100			
						Fo	rS	an	Die	. (304	liti					Е								
						- 5	ee	F	riv	A	3	he	2574	7			T		ΑĮ	E	R	11			
		***							111		LEIC.	ne	8	1			1	_	VE	I	TT	$ \Omega$	~		
					<u> </u>	-								-		\dashv	H	_6	VE	4	ш	7	4		
		С	HAIN OF	CUSTOR	Y SIGNATUR	E RI	ECO	RD											SA	MO C	COL	DITIONS		_	
	Signature (Relinquished)	W.	Printed A	1144	Company				-2	Da	tel /	2:1	5.0	26	R	ECEIV	ÆD.	Co	OOL			VARM [٠	F
	Signature /	" 12 mi	Name Printed /	KNE	Company/			9		Tin Da	te/ ¿	21	13	-06								48 NE	30 N	1.	i i
	(Received) ()	A J. DARWY.	Name (%)	M. C.D	Agency Company/		<u>L</u> 1			Tîn Da		20:	00		CI	JSTO	DYS	EALE	D 	YES		NO.	0 0		
	(Relinquished) Signature		Name		Agency					Tin					SPEC	IAL R	EQUIP	REMER	ITS;						
	(Received)	di di	Printed Name		Company/ Agency					Oa: Tin															
	Signature (Relinquished)	*	Printed Name	W. A	Company/ Agency					Da Tim															
	Signature		Printed		Company/				- 4	Da	te/	Section 1		i.											
	(Received)		Name		Agency					Tim	18														

TRUESDAIL LABORATORIES, INC. 14201 Franklin Avenue, Tustin, CA 92780-7008 (714)730-6239 FAX: (714) 730-6462 www.truesdall.com

CHAIN OF CUSTODY RECORD [2006-GMP-115-Q4]

TURNAROUND TIME

10 Days

DATE 12115104 PAGE . OF

	~	• Por 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10																	1.5					(ATTENDED	1
Î	COMPANY	E2 .							7	7	7	7	\mathcal{T}	77	7	7	7	7	\Box	\neg	1	7	7	COMME	-Wre
	PROJECT NAME	PG&E Topock		31					/			/	/ ,	/_/		/	/	/					/	COMME	-MIS
	PHONE	(530) 229-3303		FAX (530	339-330	3			/	Ι.	/ /	Ι,	/ /		/ .	/ .	/	/	/	/	/	/ /	/		
	ADDRESS	155 Grand Ave							1	' /		-/	/ إ		'. <i>'</i>	,		,	/ /	/ /		8			
	ADDRESS	Oakland, CA 94		_				/2	/,	PH(150] /	/	Contrast Reserved Co.	R_0	ec'd		/15/			1	Ser OF COMP.				
	P.O. NUMBER	338234.GM.02.	00 _ 4	^				CAS (Trans) Lab Fillered	Specific 126 Fillians		/ /	Ι,		1	l i	9	81	63	8	/	Įξ				
94	SAMPLERS (SIGNA	77	10 D	L.			1/	3/2	3/		/_	. / §	8 /	//	/ /		1	' /	' /	1	8				
	SAMPLERS (SIGNA	TORE	vevv	<u></u>	40	-	1/8	8/8		PHITSO	7.05 (10g.)		7	/ /		/	/	/		Į į	7/			54.5	
	SAMPLE (.D.		DATE	TIME	DESCRIP	TION	/8	8	18)H	[2]	8	/ /	\bot		\angle				12					
-6	MW-19	-115	12 1 Slow	0350	au	ر	X		X	X		X								3		1		*	
7	Mus - 241		12115/06	0850	au	5		X	X	x		X.								3		<i>.</i> .	1		
9	mw-49		1211906	48	an	-55	• :	X	X	X		7								3	7	PA	- 1		-
a	En-114		173500		GW		•	X	7			٠.								ī					
7			114010	•••				•					- f							•	ノ				10
	25.01.01(4)			5		F-				=					1		-	 	E	Ė	=				
						ro	18	am	Die	C	one	100	ind				7	壮	EF	H	!	-			-
		***		 		-8	ee	Fo	in	Δŧ	tao	6	71.12	_		T	- i		T	FT	丙	7			
					- 3						car	4(-		-		L	E7	e		1	¥	U			
														ii	\perp		•••••	- ""					. Calabarat		11-21-20
	Signature -	Oan	HAIN OF	With the second the second				ECO	RD		Date	1	4(5	lab	_				S	AMPL	E CON	KOITION	48		
	(Relinquished)	wiell	Name 2	ob I m	TO VE AG	mpanyi ency (19	الح	u (HLL	- Tim	е _	15	0	R	ECEN	/ED	С	OOL		١	WARM			*F
	Signature (Received)	rd Boom		ina Bro	us Ag	mpany/ jency	T	LI	-		Date Tim		2010		C	USTO	DY S	EALE	D	YES	s 🗆	1	NO 🗖		
	Signature (Relinquished)		Printed Name			mpany/ jency		06			Date Tim				SPE	CIAL F	EQUI	REME	NTS:				-		
	Signature (Received)	WESS TO THE TOTAL PROPERTY OF THE TOTAL PROP	Printed Name		Co	mpany/ lency				.ii sees	Date	e/	- usulmot												
	Signature		Printed		Co	mpany/			*		Date	e/		,											
Ì	(Relinquished) Signature	*	Name Printed	£1.		ency mpany/					Time			r.	-										
- 13	(Received)		Name			ency					Tim			*											

Appendix B Additional Water Quality Characterization March 2006

APPENDIX B Additional Water Quality Characterization, March 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Total Dissolved Solids	Oxygen 18	Deuterium	Chloride	Sulfate	Nitrate	Calcium	Magnesium	Potassium	Sodium	Boron	Alkalinity	Ammonia	Total Organic Carbon	Dissolved Silica	Iron	Manganese
Monitoring \	Wells																	
MW-9	07-Mar-06	1480	-8	-59.8	665	229	9.53	176	47.8	12	377	0.723	131	ND (0.5)	ND (1)	24	ND (0.5)	ND (0.5)
	07-Mar-06 FD	l I	-9.7	-53.2	665	227	9.39	169	46	11.7	352	0.688	134	ND (0.5)	ND (1)	25.1	ND (0.5)	ND (0.5)
MW-10	06-Mar-06	1750	-7.1	-46.9	474	359	14	68.8	11.5	8.59	562	1.99	298	ND (0.5)	1.31	38.8	ND (0.1)	ND (0.001)
MW-11	06-Mar-06	1640	-7.5	-56.8	498	328	9.21	179	23.8	9.64	345	0.531	97.6	ND (0.5)	ND (1)	23	ND (0.1)	ND (0.001)
MW-12	18-Apr-06	2080	-8.8	-63.0	821	262	4.7	7.57	1.62	3.36	789	0.836	247	ND (0.5)	ND (1)	20.9	ND (0.1)	ND (0.001)
MW-13	08-Mar-06 08-Mar-06 FD	1100 1110	-9.1 -9.2	-63.0 -59.4	424 419	153 152	4.68 4.6	103 103	12.9 12.9	ND (6.69) ND (6.14)	253 J 254 J	0.323 0.335	89.9 84.8	ND (0.5) ND (0.5)	ND (1) ND (1)	22.5 21.7	ND (0.5) ND (0.5)	ND (0.5) ND (0.5)
MW-14	09-Mar-06	887	-8.6	-60.3	302	136	5.18	68.9	9.81	6.54	215	0.324	89.9	ND (0.5)	ND (1)	20.3	ND (0.5)	ND (0.5)
MW-15	07-Mar-06	1080	-9	-58.6	420	138	5.65	139	34.9	11.2	207	0.288	77.1	ND (0.5)	ND (1)	23.2	ND (0.5)	ND (0.5)
MW-16	07-Mar-06	627	-9.2	-60.3	180	126	2.87	29.1	5.4	4.6	192	0.308	110	ND (0.5)	1.11	22.6	ND (0.5)	ND (0.5)
MW-17	09-Mar-06	1320	-7.8	-56.6	101	659	4.25	117	16.3	8.07	239	0.24	56.5	ND (0.5)	ND (1)	17.8	ND (0.5)	ND (0.5)
MW-18	09-Mar-06	746	-8.7	-60.7	248	82.4	3.89	75.4	11.3	5.83	139	ND (0.2)	100	ND (0.5)	ND (1)	21.4	ND (0.5)	ND (0.5)
	09-Mar-06 FD	703	-8.7	-59.2	252	82.5	3.87	76.2	11.3	6.59	138	ND (0.2)	108	ND (0.5)	ND (1)	21.4	ND (0.5)	ND (0.5)
MW-19	09-Mar-06	1270	-8.3	-69.2	484	195	4.88	116	17.8	7.45	332	0.445	92.5	ND (0.5)	ND (1)	21.3	ND (0.5)	ND (0.5)
MW-20-70	10-Mar-06	1940	-7.2	-54.0	679	358	10.5	161	48.6	9.22	424	0.427	82.2	ND (0.5)	ND (1)	21.1	ND (0.1)	ND (0.001)
MW-20-100	10-Mar-06	2500	-5.6	-50.3	861	475	9.94	171	27	7.75	597	0.803	92.5	ND (0.5)	1.56	24.7	ND (0.5)	ND (0.5)
MW-20-130	10-Mar-06	8610	-5.5	-48.8	3370	1250	10.6	312	18.9	27.7	2730	2.03	74.5	ND (0.5)	ND (1)	23.9	ND (0.1)	ND (0.001)
MW-22	15-Mar-06	22600 J	-8.9	-74.0	10800	1880	ND (0.5) J	816	184	45.1	6660	2.84	357	1.97	4.83	18.7	5.49	5.21
MW-23	08-Mar-06	11700	-9.1	-64.5	5590	702	3.53	743	78.5	40.7	3290	0.964	77.1	ND (0.5)	1.78	14.6	ND (0.5)	ND (0.5)
MW-24A	06-Mar-06	1850	-8.3	-60.2	633	316	15.9	57.7	10.6	7.63	618	1.21	288	ND (0.5)	6.75	29.6	ND (0.5)	ND (0.5)
MW-24B	07-Mar-06	8740	-8	-47.5	4080	1210	13.8	311	7.45	36.4	3220	2.7	48.4	ND (0.5)	ND (1)	23.1	ND (0.5)	ND (0.5)
MW-24BR	16-Mar-06	8560	-9.7	-83.4	4430	363	ND (0.5)	109	3.81	25.7	2930	2.18	129	ND (0.5)	2	14.5	ND (0.5)	ND (0.5)
MW-25	09-Mar-06	910	-8.4	-64.1	245	164	3.83	76.4	15.6	6.97	210	0.39	170	ND (0.5)	1.33	21.7	ND (0.1)	ND (0.001)
MW-26	08-Mar-06	2070	-8.6	-60.4	772	324	4.9	155	38.1	11.7	434 J	0.621	121	ND (0.5)	ND (1)	23.7	ND (0.5)	ND (0.5)
MW-27-20	06-Mar-06	664	-12.1	-90.9	89.7	231	ND (0.2)	89.1	28.8	4.9	103	ND (0.2)	385	0.756	2.72	22.2	1.22	ND (0.5)
MW-27-60	07-Mar-06	7570	-9.5	-74.6	3380	985	ND (0.5)	346	107	19.5	2310	1.23	393	ND (0.5)	5.43	23.1	2.62	ND (0.5)
MW-27-85	06-Mar-06	11500	-10	-71.4	5340	1420	ND (0.5)	543	140	37.3	3310	1.68	355	ND (0.5)	7.19	24.1	1.89	0.545
MW-28-25	09-Mar-06	746	-11.5	-93.9	84.4	225	ND (0.5)	98.5	27.5	4.15 J	88.5	ND (0.2)	244	0.893	1.95	20.8	ND (0.5)	ND (0.5)
MW-28-90	06-Mar-06	5000	-11.1	-74.1	2200	688	ND (0.5)	177	27.3	12.3	1590	1.07	213	ND (0.5)	ND (1)	19.4	0.76	ND (0.5)
MW-29	13-Apr-06	2290	-8.9	-61.0	429	481	ND (0.5)	129	98.6	7.02	490	0.644	545	3.59	4.77	31.9	1.63	ND (0.5)
MW-30-30	13-Mar-06	39700 J	-8.8	-70.5	18600	4530	ND (0.5)	1050	892	77.2	11300	4.62	650	6.61	35.7	24.2	5.37	0.844
MW-30-50	09-Mar-06	5380	-9.8	-83.5	2420	651	ND (0.5)	226	66.2	14.6	1640	1.18	275	0.546	2.2	20.7	ND (0.5)	ND (0.5)
MW-31-60	15-Mar-06	1560 J	-8.6	-65.6	661	191	4.37	106	17.5	7.3	403	0.393	89.3	ND (0.5)	ND (1)	20.1	ND (0.5)	ND (0.5)
	15-Mar-06 FD	1640 J	-8.6	-64.9	662	192	4.34	101	16.8	6.94	391	0.383	81.9	ND (0.5)	ND (1)	20	ND (0.5)	ND (0.5)
MW-31-135	15-Mar-06	6310 J	-9.5	-76.1	3070	486	8.0	213	13	17	2010	1.27	44.7	ND (0.5)	ND (1)	18	ND (0.5)	ND (0.5)
MW-32-20	10-Mar-06	20900	-8.3	-65.5	10600	1970	ND (0.5)	1350	530	56.1	6440	3.54	432	8.33	20	31.1	18.9	1.34
MW-32-35	10-Mar-06	9230	-8.6	-74.0	4210	1010	ND (0.5)	654	129	19.2	2360	1.13	234	2.13	3.57	21.2	6.46	1.73
MW-33-40	09-Mar-06	3020	-9.2	-73.8	1340	373	ND (0.5)	15.7	10.9	2.39 J	1180	1.11	262	ND (0.5)	1.72	33 J	ND (0.5)	ND (0.5)

APPENDIX B Additional Water Quality Characterization, March 2006 PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Total Dissolved Solids	Oxygen 18	Deuterium	Chloride	Sulfate	Nitrate	Calcium	Magnesium	Potassium	Sodium	Boron	Alkalinity	Ammonia	Total Organic Carbon	Dissolved Silica	Iron	Manganese
Monitoring \	Wells																	
MW-33-90	08-Mar-06	5660	-9.8	-70.9	2770	465	1.04	287	31.7	16.1	1580	1.03	54	ND (0.5)	ND (1)	18.8	ND (0.5)	ND (0.5)
MW-33-150	08-Mar-06	10100	-10.3	-75.2	5490	860	1.05	433	47.6	26.5	3210	1.05	59.1	ND (0.5)	ND (1)	17	ND (0.5)	ND (0.5)
MW-33-210	06-Mar-06	12100	-11.2	-82.3	6270	1060	1.86	541	75.3	39.4	3570	1.15	64.2	ND (0.5)	1.56	19.7	ND (0.5)	ND (0.5)
MW-34-55	08-Mar-06	4850	-10.8	-86.8	2080	593	ND (0.5)	256	54.2	13.5	1640	0.956	272	ND (0.5)	1.71	21.3	0.239	0.215
MW-34-80	09-Mar-06	7830	-9.9	-86.8	3520	986	ND (0.5)	383	65.8	24	2420	1.49	313	ND (0.5)	3.35	21.7	ND (0.1)	0.136
MW-34-100	08-Mar-06	10000	-11.4	-75.5 J	4720	1180	1.39	179	12.1	32.5	3580	2.41	152	ND (0.5)	2.61	19.7	ND (0.5)	ND (0.5)
	08-Mar-06 FD	10100	-10.1	-101.9 J	4920	1220	1.39	182	11.9	36.5	3530	2.46	159	ND (0.5)	2.63	19.7	ND (0.5)	ND (0.5)
MW-35-60	14-Mar-06	4480 J	-9.6	-75.5	2070	342	1.93	305	40.6	16.6	1270	0.767	74.5	ND (0.5)	ND (1)	19.7	ND (0.5)	ND (0.5)
MW-35-135	10-Mar-06	6720	-10.5	-76.1	2930	669	2.41	254	30.9	13.6	2050	0.695	64.2	ND (0.5)	1.37	15.9	ND (0.5)	ND (0.5)
	10-Mar-06 FD	6480	-10.1	-79.3	2910	630	2.46	241	29.9	12	1960	0.672	54	ND (0.5)	1.96	16	ND (0.5)	ND (0.5)
MW-36-20	07-Mar-06	8460	-10.3	-73.7	3890	1040	ND (0.5)	372	98.3	14.9	2780	1.57	375	1.71	6.11	26.7	1.83	ND (0.5)
MW-36-40	07-Mar-06	7990	-10.8	-73.9	3440	1050	ND (0.5)	363	86.4	17.6	2430	1.54	370	1.21	5.53	25.4	3.92	0.699
MW-36-50	07-Mar-06	4340 4470	-10.5 -11.2	-73.2 -73.1	1870 1880	532 533	ND (0.5)	200 191	39.7 38.5	11.5 10.9	1430 1370	1.12 1.08	278 275	ND (0.5)	1.66 2.04	23	0.57 0.553	0.517
MM 20 70	07-Mar-06 FD	5070	-11.2	-73.1	2190	664	ND (0.5)	223	51.1	15.3	1710	1.19	267	ND (0.5)	2.04	23		ND (0.5) 0.508
MW-36-70	07-Mar-06						ND (0.5)							ND (0.5)			ND (0.5)	
MW-36-90	07-Mar-06	6670	-10.2	-71.8	2940	871	ND (0.5)	212	16.1	20.6	2240 3050	1.51 2.27	244	ND (0.5)	1.96	26.9	ND (0.5)	ND (0.5)
MW-36-100	13-Mar-06	10400 J	-9	-71.1	4660	1180	0.572	413	30.6	24			196	ND (0.5)	3.13	22.6	ND (0.5)	ND (0.5)
MW-37D	13-Mar-06	1110 J	-9.3	-72.2	4620	766	3.88	341	22.4	19.9	2980	1.89	57.1	ND (0.5)	ND (1)	17.8	ND (0.1)	0.00114
MW-37S	13-Mar-06	2660 J	-9.3	-70.8	1250	236	1.74	135	18.2	9.8	741	0.802	59.6	ND (0.5)	ND (1)	20.1	ND (0.5)	ND (0.5)
MW-38D	10-Mar-06	13600	-10	-75.4	6870	689	0.847	358	7.33	48.6	4950	2.4	36	ND (0.5)	ND (1)	20.6	ND (0.5)	ND (0.5)
MW-38S	10-Mar-06	2540	-5.6	-45.8	775	512	10.3	120	22.7	10.1	710	2.43	193	ND (0.5)	ND (1)	28.3	ND (0.5)	ND (0.5)
MW-39-40	07-Mar-06	4510	-7.5	-60.4	1900	488	ND (0.5)	271	57	14.8	1320	0.926	262	0.538	4	30.6	2.2	0.815
MW-39-50	08-Mar-06	6940	-9.9	-65.3	3190	810	ND (0.5)	270	99.1	17.1	2130	1.3	275	ND (0.5)	3.44	22.1	ND (0.5)	ND (0.5)
MW-39-60	08-Mar-06 08-Mar-06 FD	9060 8980	-9.7 -9.5	-67.9 -66.4	4130 4270	1070 1090	ND (0.5) ND (0.5)	479 495	124 127	22.5 25.2	2540 2610	1.45 1.49	288 278	ND (0.5) ND (0.5)	3.96 4.22	22.9 22.3	ND (0.5) ND (0.5)	ND (0.5) ND (0.5)
MW-39-70	08-Mar-06	7060	-9.5	-66.9	3260	919	ND (0.5)	427	66.1	21.2	2070	1.35	254	ND (0.5)	2.17	25.3	ND (0.5)	ND (0.5)
MW-39-80	08-Mar-06	9140	-8.2	-61.2	4320	1140	0.931	592	65	29.5	2430	1.46	211	ND (0.5)	2.76	23.7	ND (0.5)	ND (0.5)
MW-39-100		12400 J	-8.1	-62.1	5610	1440	2.68	650	43.4	47.3	3410	2.21	132	ND (0.5)	2.75	24.5	ND (0.5)	ND (0.5)
MW-40D	08-Mar-06	10500	-10.4	-72.4	5080	765	2.35	394	48.2	30.5	3130	1.81	54	ND (0.5)	ND (1)	20.3	ND (0.5)	ND (0.5)
MW-40S	08-Mar-06	1170	-9.7	-66.1	453	143	6.38	102	18.3	ND (7.28)	250 J	0.347	79.7	ND (0.5)	ND (1)	22.6	ND (0.5)	ND (0.5)
MW-41D	15-Mar-06	13600 J	-9.7	-75.6	7120	840	ND (0.5)	404	33.9	34.3	4390	1.79	42.2	ND (0.5)	ND (1)	15.6	ND (0.5)	ND (0.5)
MW-41M	13-Mar-06	9200 J	-9.7	-78.3	4630	615	0.702	440	37.2	24.2	2710	1.32	44.7	ND (0.5)	ND (1)	17.3	ND (0.5)	ND (0.5)
MW-41S	13-Mar-06	2790 J	-9	-65.9	1330	261	1.32	99.7	13.5	10.1	807	0.783	59.6	ND (0.5)	ND (1)	17.8	ND (0.5)	ND (0.5)
MW-42-30	07-Mar-06	6180	-4.6	-41.5	2820	986	ND (0.5)	436	93.4	17.4	1800	1.16	188	2.03	3.37	23.7	2.75	0.672
MW-42-55	07-Mar-06	9540	-9.2	-64.8	4340	1050	ND (0.5)	655	128	29.3	2730	1.31	326	ND (0.5)	4.27	18.3	2.49	0.943
MW-42-65	07-Mar-06	11500	-9.1	-67.2	5260	1410	ND (0.5)	600	189	34.3	3260	1.42	321	ND (0.5)	6.13	23.1	1.09	ND (0.5)
	10-Mar-06	881	-12.3	-94.8	107			97.5		5.7	125	ND (0.2)	252				3.27	ND (0.5)
MW-43-25	10-18141-00	001	-12.0	-34.0	107	298	ND (0.5)	31.S	41	J.1	120	ND (U.Z)	202	1.93	3.81	23	3.21	(ט.ט) שוו

APPENDIX B

Additional Water Quality Characterization, March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

																		-
Location	Sample Date	Total Dissolved Solids	Oxygen 18	Deuterium	Chloride	Sulfate	Nitrate	Calcium	Magnesium	Potassium	Sodium	Boron	Alkalinity	Ammonia	Total Organic Carbon	Dissolved Silica	Iron	Manganese
Monitoring '	Wells																	
MW-43-75	10-Mar-06	9450	-11	-87.3	3710	1630	ND (0.5)	378	66.7	28.8	2910	1.84	455	ND (0.5)	10	24.4	3.01	ND (0.5)
MW-43-90	10-Mar-06	14800	-10.6	-78.6	6700	1950	ND (0.5)	907	347	46.2	3780	1.29	468	ND (0.5)	12.3	25.4	11.9	1.23
OW-3D	09-Mar-06	4450	-9.6	-73.5	2200	359	ND (0.5)	126	11	11	1470	1.27	38.5	ND (0.5)	ND (1)	14.4	ND (0.5)	ND (0.5)
OW-3M	09-Mar-06	2900	-8.8	-73.4	1390	266	1.07	74.2	6.71	6.29	882	0.936	56.5	ND (0.5)	ND (1)	15.8	ND (0.5)	ND (0.5)
OW-3S	09-Mar-06	1030	-8.9	-67.1	445	78.8	2.74	97.8	14.7	7.68	187	ND (0.2)	61.7	ND (0.5)	ND (1)	19.1	ND (0.5)	ND (0.5)
Test Wells																		
TW-2D	15-Mar-06	5220 J	-9.2	-68.8	2250	542	1.42	234	24.3	16.9	1450	1.16	109	ND (0.5)	ND (1)	21.9	ND (0.5)	ND (0.5)
TW-2S	15-Mar-06	1620 J	-8.2	-59.5	731	240	5.3	135	30.7	10.1	411	0.4	79.4	ND (0.5)	ND (1)	21	ND (0.5)	ND (0.5)
Surface Wa	ter Stations																	
R-27	06-Mar-06	656	-11.8	-92.1	90.6	268	ND (0.5)	83.5	29.4	5.44 J	101	ND (0.2)	144	ND (0.5)			ND (0.5)	ND (0.5)
R-28	06-Mar-06	675	-12.3	-93.4	91	270	ND (0.5)	76.6	26.6	5.22 J	91.5	ND (0.2)	146	ND (0.5)			ND (0.5)	ND (0.5)

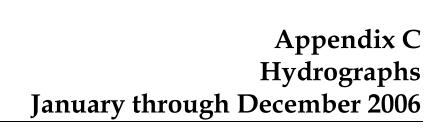
NOTES:

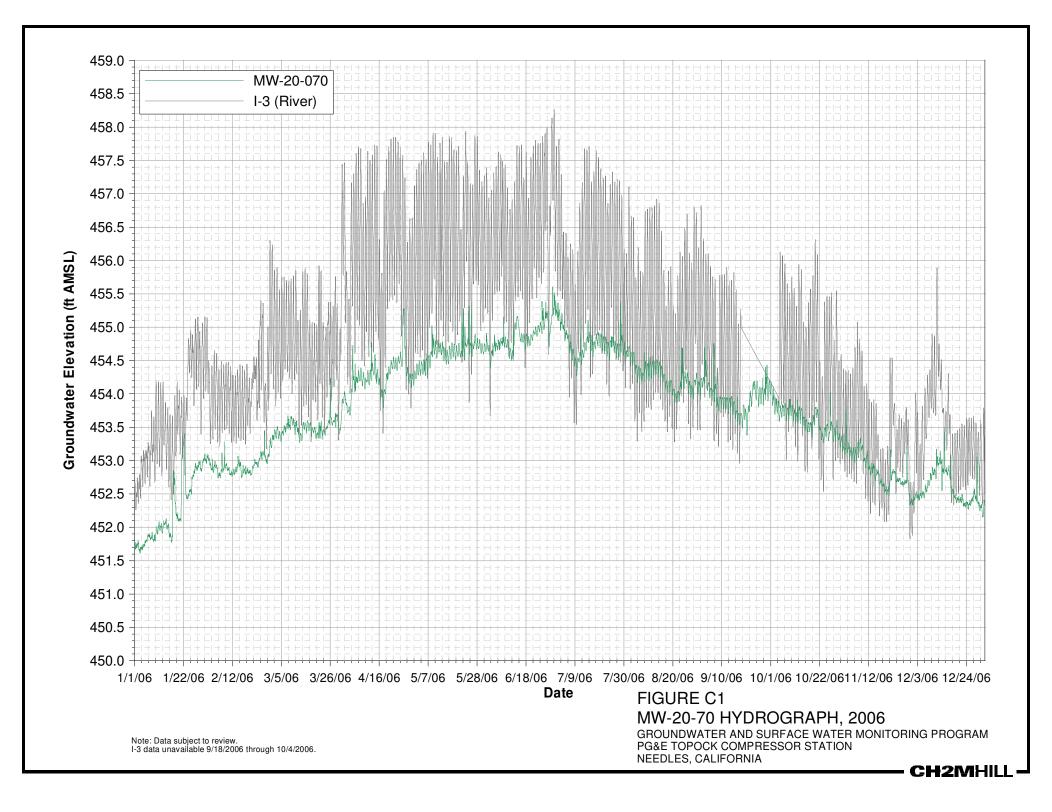
- FD field duplicate sample
 ND parameter not detected at the listed reporting limit.
 J concentration or reporting estimated by laboratory or data validation
- parameter not analyzed

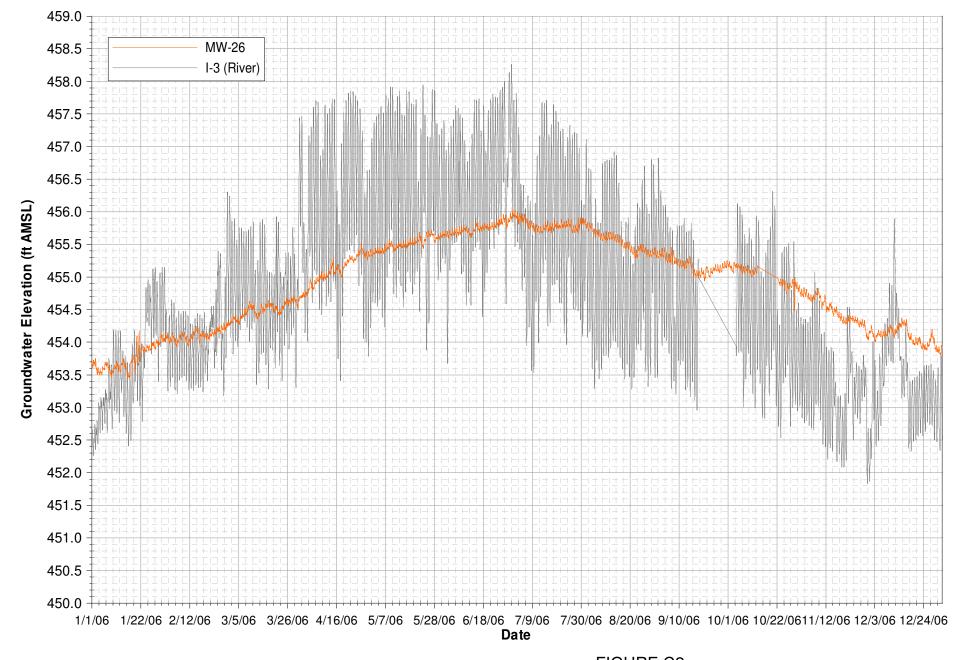
Results in milligrams per liter (mg/L), except Oxygen-18 and Deuterium, which are expressed as differences from global standards in parts per thousand.

Alkalinity reported as carbonate (CaCO3). Nitrate reported as Nitrogen (N).

All metal results are dissolved concentrations except for selected unfiltered parameters noted with ^ (total metals concentration).

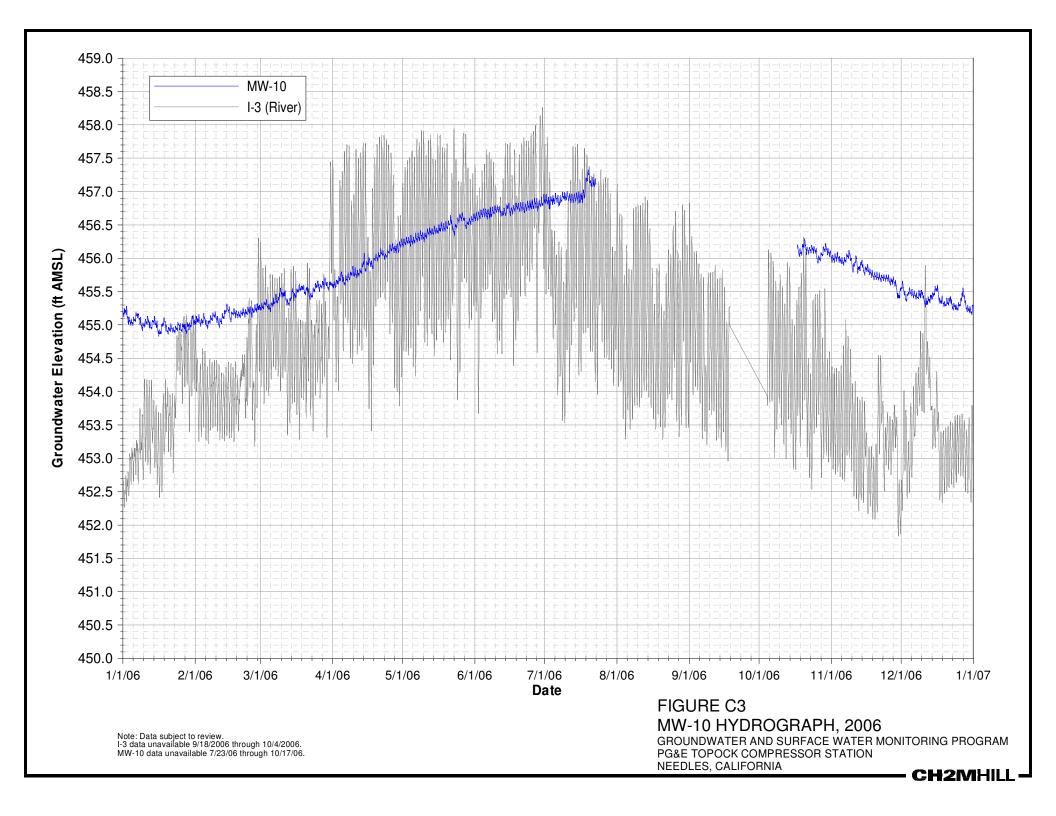


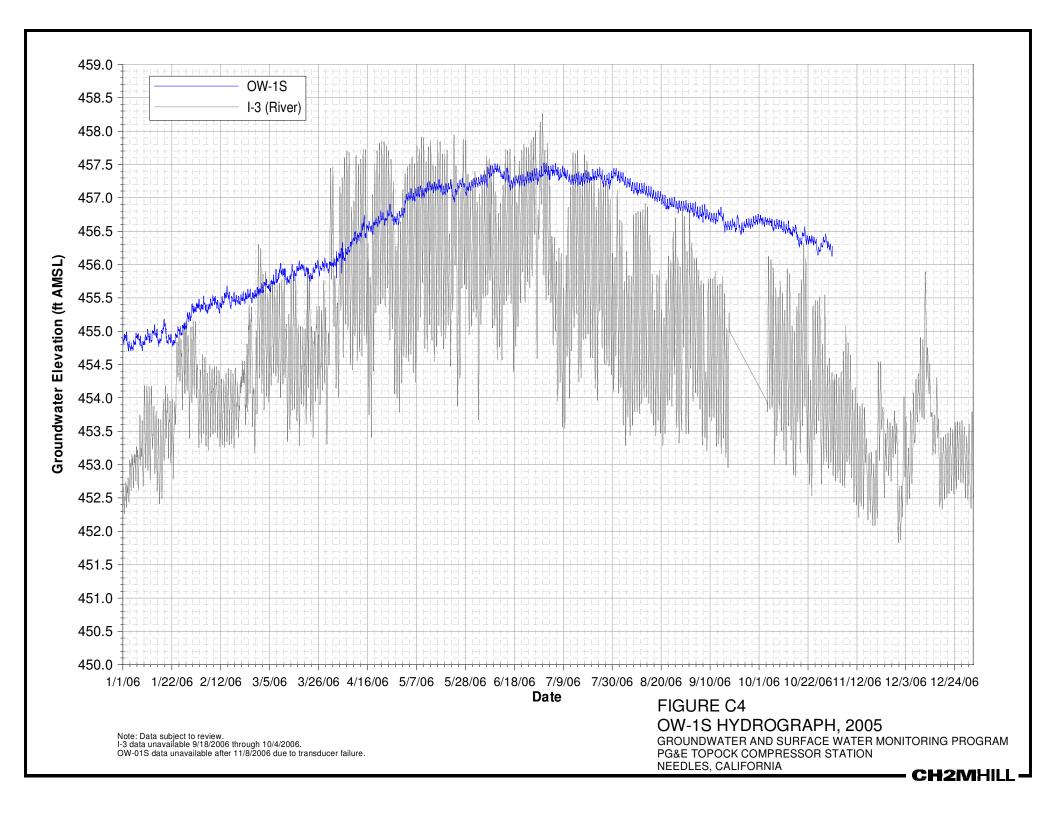




Note: Data subject to review. I-3 data unavailable 9/18/06 through 10/4/2006. MW-26 data unavailable 10/13/2006 through 10/22/2006. FIGURE C2
MW-26 HYDROGRAPH, 2006
GROUNDWATER AND SURFACE WATER MONITORING PROGRAM PG&E TOPOCK COMPRESSOR STATION NEEDLES, CALIFORNIA

CH2MHII





Appendix D Evaluation of Sampling Frequencies of Topock GMP Monitoring Wells, 2005-2006

Evaluation of Sampling Frequencies of Topock GMP Monitoring Wells, 2005-2006

PREPARED FOR: PG&E

PREPARED BY: CH2M HILL

DATE: February 6, 2007

The Monitoring and Remediation Optimization System (MAROS) software developed by the Air Force Center for Environmental Excellence (AFCEE) was used to evaluate the sampling frequency of monitoring wells in the Topock Groundwater Monitoring Program (GMP) network. This memorandum summarizes the results of the evaluation and provides recommendations for revised sampling frequencies.

MAROS Description

MAROS is a modular set of tools that uses simple statistical and heuristic methods to evaluate appropriate sampling frequencies for wells in long-term groundwater monitoring programs. The capabilities of MAROS include plume trend analysis, detailed characterization of sample frequency, well redundancy, well sufficiency, and data sufficiency. MAROS is designed for single plumes, two-dimensional analysis, and evaluation only within the existing well network.

Application of MAROS to the Topock GMP Data Set

Sampling frequency analysis for hexavalent chromium [Cr(VI)] was the primary focus of the Topock groundwater monitoring program evaluation. Sampling frequency analysis relies primarily on evaluating data trends, particularly rate of change, at individual wells. MAROS requires at least four data points to calculate a trend at a well, but a trend based on only four data points may be erroneous. A minimum of six data points is recommended.

MAROS is designed to be used at sites where a static set of wells has been sampled at a regular frequency over a long period. Addition of new wells to the monitoring network during the period of interest often causes MAROS to reach an erroneous conclusion that the plume is migrating and results in excessive sampling frequency recommendations. At a site such as Topock, where new wells have been added each year, it is best to evaluate data from groups of wells for which data are available over the entire time period of interest.

Because Topock wells are sampled at various frequencies and MAROS provides the most meaningful results when all of the site wells are sampled during the same event, the GMP data set was reduced to reflect quarterly sampling intervals. To obtain the most conservative data set, the maximum concentration detected at the well during the quarter was used in the analysis of wells sampled more than once during a given quarter.

1

The program was used to analyze data for the period from January 1, 2005 through December 31, 2006, for all of the routinely-sampled monitoring wells. The 2-year data set is considered be the most representative of current conditions at the site, while including most of the wells at the site. As more quarterly data become available, MAROS analysis can be performed on the more recent wells which do not currently have the minimum number of data points.

Because MAROS performs a two-dimensional analysis, the data set was broken up by monitoring wells in the upper depth interval (UA), the middle depth interval (MA), and the lower depth interval (LA). Separate runs were made for each depth interval. The wells in the Alluvial Aquifer have been separated into three depth intervals to present groundwater quality and groundwater level data. The depth intervals are based on grouping the monitoring wells screened at common elevations and do not represent distinct hydrostratigraphic units or separate aquifer zones. The Alluvial Aquifer is considered to be hydraulically undivided. The contaminant used for the trend analysis was Cr(VI).

MAROS Inputs

In addition to analytical data, MAROS uses some hydrogeologic data. These data are used to evaluate plume movement. One value for each parameter is identified per depth interval. The values selected are shown on Table 1. The contaminant source was assumed to be approximately at the location of monitoring well MW-10. Wells included in the analysis must be assigned to one of two categories: source well or tail well. At least one source well must be selected for each layer. In each layer, the well(s) nearest the source area well (MW-10) were assigned to the source category. Source wells included: MW-09 and MW-10 in UA, MW-20-100 in MA, and MW-38D and MW-24B in LA. Although it is approximately 1,800 feet downgradient of the assumed contaminant source (near MW-10), MW-20-100 was selected as the source area well for the MA because it is the closest downgradient well to MW-10 for which a sufficient data set is available (it has a regular sampling frequency), and it has the highest Cr(VI) concentrations of the MA dataset.

TABLE 1
MAROS Input Parameters for Each Depth Interval
Evaluation of Sampling Frequencies of Topock GMP Monitoring Wells, 2005-2006

Parameter	UA	MA	LA	Input Source
Seepage velocity (ft/yr)	127	152	142	Average from groundwater model
Generalized groundwater flow direction	East	East	East	Average from groundwater model
Saturated thickness (ft)	30	30	70	Average from groundwater model
Effective Porosity (%)	18	18	18	Average from groundwater model
Porosity (%)	30	30	30	C.W. Fetter, <i>Applied Hydrogeology</i> , 1994; and site specific sediment samples

TABLE 1
MAROS Input Parameters for Each Depth Interval
Evaluation of Sampling Frequencies of Topock GMP Monitoring Wells, 2005-2006

Parameter	UA	MA	LA	Input Source
50 ppb plume width (ft)	3100	2850	2650	4 th Quarter 2006 Monitoring Event Plume Map
50 ppb plume length (ft)	1460	1420	2315	4 th Quarter 2006 Monitoring Event Plume Map
Maximum plume length (ft)	1460	1420	2315	4 th Quarter 2006 Monitoring Event Plume Map
Distance from source to nearest downgradient receptor (ft) [Colorado River]	2080	2080	2080	4 th Quarter 2006 Monitoring Event Plume Map
Distance from source to nearest downgradient property line (ft)) [Colorado River]	2080	2080	2080	4 th Quarter 2006 Monitoring Event Plume Map
Distance from plume tail to nearest downgradient receptor (ft)) [Colorado River]	350	350	10	4 th Quarter 2006 Monitoring Event Plume Map
Distance from plume tail to nearest downgradient property line (ft)) [Colorado River]	350	350	10	4 th Quarter 2006 Monitoring Event Plume Map

Data Sets Used

As previously described, the program was used to analyze data from a 2-year period for all of the routinely-sampled monitoring wells data for each depth interval. Table 2 lists the wells that were included in each layer.

TABLE 2
Wells Included in MAROS Evaluation, by Depth Interval
Evaluation of Sampling Frequencies of Topock GMP Monitoring Wells,
2005-2006

UA Wells	MA Wells	LA Wells
MW-09	CW-01M	CW-01D
MW-10	CW-02M	CW-02D
MW-11	CW-03M	CW-03D
MW-12	CW-04M	CW-04D
MW-13	MW-20-100	MW-20-130

TABLE 2 Wells Included in MAROS Evaluation, by Depth Interval Evaluation of Sampling Frequencies of Topock GMP Monitoring Wells, 2005-2006

UA Wells	MA Wells	LA Wells
MW-14	MW-27-060	MW-24B
MW-15	MW-30-050	MW-27-085
MW-16	MW-33-090	MW-28-090
MW-17	MW-34-055	MW-31-135
MW-18	MW-36-050	MW-33-150
MW-19	MW-36-070	MW-33-210
MW-20-070	MW-37S	MW-34-080
MW-21	MW-39-050	MW-34-100
MW-22	MW-39-060	MW-35-135
MW-24A	MW-39-070	MW-36-090
MW-25	MW-41M	MW-36-100
MW-26	MW-42-055	MW-37D
MW-27-020	MW-42-065	MW-38D
MW-28-025	MW-44-070	MW-39-080
MW-29	MW-50-095	MW-39-100
MW-30-030	MW-51	MW-40D
MW-31-060	OW-01M	MW-41D
MW-32-020	OW-02M	MW-43-075
MW-32-035	OW-03M	MW-43-090
MW-33-040	OW-05M	MW-44-115
MW-35-060	PGE-06	MW-44-125
MW-36-020	Park Moabi	MW-45-095a
MW-36-040		MW-45-095b
MW-38S		MW-46-175
MW-39-040		MW-46-205
MW-40S		MW-47-115
MW-41S		MW-49-135
MW-42-030		MW-49-275
MW-43-025		MW-49-365
MW-47-055		MW-50-200

TABLE 2
Wells Included in MAROS Evaluation, by Depth Interval
Evaluation of Sampling Frequencies of Topock GMP Monitoring Wells,
2005-2006

UA Wells	MA Wells	LA Wells
OW-01S		OW-01D
OW-02S		OW-02D
OW-03S		OW-03D
OW-05S		OW-05D
TW-02S		TW-02D
TW-01		TW-03D
		TW-04
		TW-05

Data were consolidated into quarterly events, selecting the maximum Cr(VI) concentration detected during each period at each well. As recommended by MAROS authors, non-detects (NDs) were set to the lowest detection limit (0.0002 milligrams per liter [mg/L]). When the actual detection limit was used, false increasing and decreasing trends were interpreted by the program, as ND values varied depending on the detection limit.

Description of MAROS Analyses Performed

Sampling Frequency Optimization

Sampling frequency analysis determines the sampling interval for each sampling location using the Modified Cost Effective Sampling (CES) method. CES is a methodology developed to estimate the lowest-frequency sampling schedule for a given monitoring well, while still providing stakeholders the needed information for regulatory and remedial decision-making. The CES method evaluates the frequency of well sampling based on statistics describing the trend, variability, and magnitude of contaminant concentrations. Contaminant rate of change at a well is evaluated relative to the cleanup goal or maximum contaminant level (MCL). The California MCL for total chromium (0.05 mg/L) was used in this evaluation. The central premise of the CES method is that sampling frequency should be based on the rate of change of constituents at the well rather than well location within the plume. The sampling frequency method MAROS employs is based on the CES method, with some modifications to integrate with the overall MAROS approach.

MAROS Results for Upper Depth Interval (UA) Wells

Table 3 lists all of the UA monitoring wells included in the analysis, the current sampling frequency for each well, and the MAROS-recommended sampling frequency. MAROS recommends biennial sampling for the majority of the UA wells.

TABLE 3
UA MAROS-recommended Sampling Frequency
Evaluation of Sampling Frequencies of Topock GMP Monitoring Wells,
2005-2006

Well	Current Sampling Frequency	MAROS Sampling Frequency
MW-09	Annual	Annual
MW-10	Quarterly	Quarterly
MW-11	Annual	Annual
MW-12	Quarterly	Quarterly
MW-13	Semiannual	Annual
MW-14	Semiannual	Annual
MW-15	Biennial	Biennial
MW-16	Biennial	NA
MW-17	Biennial	NA
MW-18	Semiannual	Annual
MW-19	Quarterly	Annual
MW-20-070	Quarterly	Annual
MW-21	Quarterly	Biennial
MW-22	Semiannual	Biennial
MW-24A	Quarterly	Quarterly
MW-25	Semiannual	Annual
MW-26	Semiannual	Quarterly
MW-27-020	Annual	Biennial
MW-28-025	Annual	Biennial
MW-29	Annual	Biennial
MW-30-030	Biennial	Biennial
MW-31-060	Semiannual	Annual
MW-32-020	Quarterly	Biennial
MW-32-035	Quarterly	Biennial
MW-33-040	Quarterly	Biennial

TABLE 3
UA MAROS-recommended Sampling Frequency
Evaluation of Sampling Frequencies of Topock GMP Monitoring Wells,
2005-2006

Well	Current Sampling Frequency	MAROS Sampling Frequency
MW-35-060	Semiannual	Annual
MW-36-020	Annual	Biennial
MW-36-040	Annual	Biennial
MW-38S	Annual	Annual
MW-39-040	Quarterly	Biennial
MW-40S	Annual	Biennial
MW-41S	Semiannual	Annual
MW-42-030	Semiannual	Biennial
MW-43-025	Semiannual	Biennial
MW-47-055	Quarterly	Quarterly
OW-01S	Quarterly	Biennial
OW-02S	Quarterly	Annual
OW-03S	Semiannual	NA
OW-05S	Quarterly	Annual
TW-01	Biennial	NA
TW-02S	Annual	Annual

NA = Not applicable, insufficient number of samples for high degree of confidence in MAROS analysis results

MAROS Results for Middle Depth Interval (MA) Wells

Table 4 lists all of the MA monitoring wells included in the analysis, the current sampling frequency for each well, and the MAROS-recommended sampling frequency. MAROS recommends biennial sampling for the majority of the MA wells.

TABLE 4
MA MAROS-recommended Sampling Frequency
Evaluation of Sampling Frequencies of Topock GMP Monitoring Wells,
2005-2006

Well	Current Sampling Frequency	MAROS Sampling Frequency
CW-01M	Semiannual	Biennial
CW-02M	Semiannual	Biennial

7

TABLE 4
MA MAROS-recommended Sampling Frequency
Evaluation of Sampling Frequencies of Topock GMP Monitoring Wells,
2005-2006

Well	Current Sampling Frequency	MAROS Sampling Frequency
CW-03M	Semiannual	Annual
CW-04M	Semiannual	Biennial
MW-20-100	Quarterly	Quarterly
MW-27-060	Annual	Biennial
MW-30-050	Not sampled	Biennial
MW-33-090	Quarterly	Biennial
MW-34-055	Annual	Biennial
MW-36-050	Annual	Biennial
MW-36-070	Quarterly	Biennial
MW-37S	Semiannual	Biennial
MW-39-050	Annual	Annual
MW-39-060	Annual	Annual
MW-39-070	Quarterly	Annual
MW-41M	Semiannual	Annual
MW-42-055	Quarterly	Biennial
MW-42-065	Quarterly	Biennial
MW-44-070	Quarterly	Biennial
MW-50-095	Quarterly	NA
MW-51	Quarterly	NA
OW-01M	Quarterly	Biennial
OW-02M	Quarterly	Biennial
OW-03M	Semiannual	Biennial
OW-05M	Quarterly	Biennial
PGE-06	Not sampled NA	
Park Moabi	Biennial	Biennial

NA = Not applicable, insufficient number of samples for high degree of confidence in MAROS analysis results

MAROS Results for Lower Depth Interval (LA) Wells

Table 5 lists all of the LA monitoring wells included in the analysis, the current sampling frequency for each well, and the MAROS-recommended sampling frequency. MAROS recommends annual and biennial sampling for the majority of the LA wells.

TABLE 5
LA MAROS-recommended Sampling Frequency
Evaluation of Sampling Frequencies of Topock GMP Monitoring Wells,
2005-2006

Well	Current Sampling Frequency	MAROS Sampling Frequency
CW-01D	Semiannual	Biennial
CW-02D	Semiannual	Biennial
CW-03D	Semiannual	Biennial
CW-04D	Semiannual	Biennial
MW-20-130	Quarterly	Quarterly
MW-24B	Quarterly	Quarterly
MW-27-085	Monthly	Biennial
MW-28-090	Quarterly	Biennial
MW-31-135	Semiannual	Annual
MW-33-150	Quarterly	Annual
MW-33-210	Quarterly	Annual
MW-34-080	Monthly	Biennial
MW-34-100	Biweekly	Quarterly
MW-35-135	Semiannual	Annual
MW-36-090	Monthly	Annual
MW-36-100	Monthly	Annual
MW-37D	Quarterly	Annual
MW-38D	Annual	Annual
MW-39-080	Monthly	Annual
MW-39-100	Monthly	Annual
MW-40D	Quarterly	Semiannual
MW-41D	Semiannual	Biennial
MW-43-075	Quarterly	Biennial
MW-43-090	Quarterly	Biennial
MW-44-115	Monthly	Annual

TABLE 5
LA MAROS-recommended Sampling Frequency
Evaluation of Sampling Frequencies of Topock GMP Monitoring Wells,
2005-2006

Well	Current Sampling Frequency	MAROS Sampling Frequency	
MW-44-125	Monthly	Annual	
MW-45-095a	Not sampled	NA	
MW-45-095b	Not sampled	NA	
MW-46-175	Monthly	Annual	
MW-46-205	Quarterly	Biennial	
MW-47-115	Quarterly	Biennial	
MW-49-135	Quarterly	NA	
MW-49-275	Quarterly	NA	
MW-49-365	Quarterly	NA	
MW-50-200	Quarterly	NA	
OW-01D	Semiannual	Biennial	
OW-02D	Semiannual	Biennial	
OW-03D	Semiannual	NA	
OW-05D	Semiannual	Biennial	
TW-02D	Annual	Annual	
TW-03D	Monthly	Annual	
TW-04	Semiannual	NA	
TW-05	Annual	NA	

NA = Not applicable, insufficient number of samples for high degree of confidence in MAROS analysis results

Long-term Monitoring Recommendations

The MAROS software recommended a reduced sampling frequency for most of the routinely-sampled monitoring wells at Topock. Annual or biennial sampling was recommended for most of the monitoring wells. Table 6 is a summary of the current sampling frequencies for the Topock GMP and interim measures observation and compliance wells. The table includes a summary of the MAROS-recommended sampling frequency for each monitoring well included in the MAROS evaluation. Finally the table includes the recommended sampling frequency for the well in 2007 given the MAROS results and whether the well is used for interim measures monitoring.

TABLE 6Recommended Topock Groundwater Monitoring Frequency

Evaluation of Sampling Frequencies of Topock GMP Monitoring Wells

Well	Well Type	Current Sampling Frequency	MAROS Frequency	Recommended Frequency
UA				
MW-09	GMP	Annual	Annual	Annual
MW-10	GMP	Quarterly	Quarterly	Quarterly
MW-11	GMP	Annual	Annual	Annual
MW-12	GMP	Quarterly	Quarterly	Quarterly
MW-13	GMP	Semiannual	Annual	Annual
MW-14	GMP	Semiannual	Annual	Annual
MW-15	GMP	Biennial	Biennial	Biennial
MW-16	GMP	Biennial	NA	NA (Biennial)
MW-17	GMP	Biennial	NA	NA (Biennial)
MW-18	GMP	Semiannual	Annual	Annual
MW-19	GMP	Quarterly	Annual	Annual
MW-20-070	GMP	Quarterly	Annual	Annual
MW-21	GMP	Quarterly	Biennial	IMCP (Quarterly)
MW-22	GMP	Semiannual	Biennial	Biennial
MW-24A	GMP	Quarterly	Quarterly	Quarterly
MW-25	GMP	Semiannual	Annual	Annual
MW-26	GMP	Semiannual	Quarterly	Quarterly
MW-27-020	GMP	Annual	Biennial	Biennial
MW-28-025	GMP	Annual	Biennial	Biennial
MW-29	GMP	Annual	Biennial	Biennial
MW-30-030	GMP	Biennial	Biennial	Biennial
MW-31-060	GMP	Semiannual	Annual	Annual
MW-32-020	GMP	Quarterly	Biennial	IMCP (Quarterly)
MW-32-035	GMP	Quarterly	Biennial	IMCP (Quarterly)
MW-33-040	GMP	Quarterly	Biennial	IMCP (Quarterly)
MW-35-060	GMP	Semiannual	Annual	Annual
MW-36-020	GMP	Annual	Biennial	Biennial
MW-36-040	GMP	Annual	Biennial	Biennial
MW-38S	GMP	Annual	Annual	Annual

TABLE 6
Recommended Topock Groundwater Monitoring Frequency
Evaluation of Sampling Frequencies of Topock GMP Monitoring Wells

Well	Well Type	Current Sampling Frequency	MAROS Frequency	Recommended Frequency
MW-39-040	GMP	Quarterly	Biennial	IMCP (Quarterly)
MW-40S	GMP	Annual	Biennial	Biennial
MW-41S	GMP	Semiannual	Annual	Annual
MW-42-030	GMP	Semiannual	Biennial	Biennial
MW-43-025	GMP	Semiannual	Biennial	Biennial
MW-47-055	GMP	Quarterly	Quarterly	IMCP (Quarterly)
OW-01S	IM No. 3 Observation Well	Quarterly	NA*	OW/CW (Quarterly)
OW-02S	IM No. 3 Observation Well	Quarterly	NA*	OW/CW (Quarterly)
OW-03S	GMP	Semiannual	NA	NA (Semiannual)
OW-05S	IM No. 3 Observation Well	Quarterly	NA*	OW/CW (Quarterly)
TW-01	GMP	Biennial	NA	NA (Biennial)
TW-02S	GMP	Annual	Annual	Annual
MA				
CW-01M	IM No. 3 Compliance Well	Semiannual	NA*	OW/CW (Semi- annual)
CW-02M	IM No. 3 Compliance Well	Semiannual	NA*	OW/CW (Semiannual)
CW-03M	IM No. 3 Compliance Well	Semiannual	NA*	OW/CW (Semiannual)
CW-04M	IM No. 3 Compliance Well	Semiannual	NA*	OW/CW (Semiannual)
MW-20-100	GMP	Quarterly	Quarterly	Quarterly
MW-27-060	GMP	Annual	Biennial	Biennial
MW-30-050	GMP	Not sampled	Biennial	Not sampled
MW-33-090	GMP	Quarterly	Biennial	IMCP (Quarterly)
MW-34-055	GMP	Annual	Biennial	Biennial
MW-36-050	GMP	Annual	Biennial	Biennial
MW-36-070	GMP	Quarterly	Biennial	IMCP (Quarterly)
MW-37S	GMP	Semiannual	Biennial	Biennial
MW-39-050	GMP	Annual	Annual	Annual
MW-39-060	GMP	Annual	Annual	Annual
MW-39-070	GMP	Quarterly	Annual	Annual

TABLE 6
Recommended Topock Groundwater Monitoring Frequency
Evaluation of Sampling Frequencies of Topock GMP Monitoring Wells

Well	Well Type	Current Sampling Frequency	MAROS Frequency	Recommended Frequency
MW-41M	GMP	Semiannual	Annual	Annual
MW-42-055	GMP	Quarterly	Biennial	IMCP (Quarterly)
MW-42-065	GMP	Quarterly	Biennial	IMCP (Quarterly)
MW-44-070	GMP	Quarterly	Biennial	IMCP (Quarterly)
MW-50-095	GMP	Quarterly	NA	NA (Quarterly)
MW-51	GMP	Quarterly	NA	NA (Quarterly)
OW-01M	IM No. 3 Observation Well	Quarterly	NA*	OW/CW (Quarterly)
OW-02M	IM No. 3 Observation Well	Quarterly	NA*	OW/CW (Quarterly)
OW-03M	GMP	Quarterly	Biennial	Biennial
OW-05M	IM No. 3 Observation Well	Quarterly	NA*	OW/CW (Quarterly)
PGE-06	GMP	Not sampled	NA	NA (Not sampled)
Park Moabi	GMP	Biennial	Biennial	Biennial
LA				
CW-01D	IM No. 3 Compliance Well	Semiannual	NA*	OW/CW (Semiannual)
CW-02D	IM No. 3 Compliance Well	Semiannual	NA*	OW/CW (Semiannual)
CW-03D	IM No. 3 Compliance Well	Semiannual	NA*	OW/CW (Semiannual)
CW-04D	IM No. 3 Compliance Well	Semiannual	NA*	OW/CW (Semiannual)
MW-20-130	GMP	Quarterly	Quarterly	Quarterly
MW-24B	GMP	Quarterly	Quarterly	Quarterly
MW-27-085	GMP	Monthly	Biennial	IMCP (Monthly)
MW-28-090	GMP	Quarterly	Biennial	IMCP (Quarterly)
MW-31-135	GMP	Semiannual	Annual	Annual
MW-33-150	GMP	Quarterly	Annual	IMCP (Quarterly)
MW-33-210	GMP	Quarterly	Annual	IMCP (Quarterly)
MW-34-080	GMP	Monthly	Biennial	IMCP (Monthly)
MW-34-100	GMP	Biweekly	Quarterly	IMCP (Biweekly)
MW-35-135	GMP	Semiannual	Annual	Annual
MW-36-090	GMP	Monthly	Annual	Annual

TABLE 6Recommended Topock Groundwater Monitoring Frequency *Evaluation of Sampling Frequencies of Topock GMP Monitoring Wells*

Well	Well Type	Current Sampling Frequency	MAROS Frequency	Recommended Frequency
MW-36-100	GMP	Monthly	Annual	Annual
MW-37D	GMP	Quarterly	Annual	Annual
MW-38D	GMP	Annual	Annual	Annual
MW-39-080	GMP	Monthly	Annual	Annual
MW-39-100	GMP	Monthly	Annual	Annual
MW-40D	GMP	Quarterly	Semiannual	Semiannual
MW-41D	GMP	Semiannual	Biennial	Biennial
MW-43-075	GMP	Quarterly	Biennial	IMCP (Quarterly)
MW-43-090	GMP	Quarterly	Biennial	IMCP (Quarterly)
MW-44-115	GMP	Monthly	Annual	IMCP (Monthly)
MW-44-125	GMP	Monthly	Annual	IMCP (Monthly)
MW-45-095a	GMP	Not sampled	NA	NA (Not sampled)
MW-45-095b	GMP	Not sampled	NA	NA (Not sampled)
MW-46-175	GMP	Monthly	Annual	IMCP (Monthly)
MW-46-205	GMP	Quarterly	Biennial	IMCP (Quarterly)
MW-47-115	GMP	Quarterly	Biennial	IMCP (Quarterly)
MW-49-135	GMP	Quarterly	NA	NA (Quarterly)
MW-49-275	GMP	Quarterly	NA	NA (Quarterly)
MW-49-365	GMP	Quarterly	NA	NA (Quarterly)
MW-50-200	GMP	Quarterly	NA	NA (Quarterly)
OW-01D	IM No. 3 Observation Well	Semiannual	NA*	OW/CW (Semiannual)
OW-02D	IM No. 3 Observation Well	Semiannual	NA*	OW/CW (Semiannual)
OW-03D	GMP	Semiannual	NA	NA (Semiannual)
OW-05D	IM No. 3 Observation Well	Semiannual	NA*	OW/CW (Semiannual)
TW-02D	GMP	Annual	Annual	Annual
TW-03D	IM No. 3 Extraction Well	Monthly	NA*	EW (Monthly)
TW-04	GMP	Semiannual	NA	NA (Semiannual)
TW-05	GMP	Annual	NA	NA (Annual)

TABLE 6 Recommended Topock Groundwater Monitoring Frequency Evaluation of Sampling Frequencies of Topock GMP Monitoring Wells

Well	Well Type	Current Sampling Frequency	MAROS Frequency	Recommended Frequency
		• •		

Notes:

OW/CW = Compliance and Observation wells in the IM injection area. No changes are recommended to the sampling frequencies for IM compliance and observation wells. IMCP =IM Contingency Plan well. No changes are recommended to the sampling frequencies for wells associated with the IM Contingency Plan, submitted to DTSC on August 28, 2006.

EW = Extraction well. No changes are recommended to the sampling frequency for extraction wells.

NA = Not applicable, insufficient number of samples for high degree of confidence in MAROS analysis results.