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June 1, 2006

Norman Shopay
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700 Heinz Avenue, Suite 200
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Subject: First Quarter 2006 Groundwater and Surface Water Monitoring Report
PG&E Topock Compressor Station, Needles, California

Dear Mr. Shopay:

Enclosed is the First Quarter 2006 groundwater and surface water monitoring report for the Topock project. This quarterly monitoring event, which also satisfied semi-annual monitoring requirements, was conducted by PG&E during March 6-16, 2006. The event included monitoring and sampling of 74 groundwater wells and 9 surface water locations along the Colorado River. If you have any questions on the groundwater and surface water monitoring report, please call me at (805) 546-5243.

Sincerely,

Paul Butler for Yvonne Meeks

Enclosure

Groundwater and Surface Water Monitoring Report, First Quarter 2006

PG&E Topock Compressor Station
Needles, California

Prepared for

California Department of Toxic Substances Control

On Behalf of

Pacific Gas and Electric Company

June 1, 2006

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Groundwater and Surface Water Monitoring Report
First Quarter 2006

PG&E Topock Compressor Station
Needles, California

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June 1, 2006

This report was prepared under the supervision of a

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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
PG&E	Pacific Gas and Electric Company
RFI	RCRA facility investigation
SAP	Sampling and Analysis Plan
TDS	Total dissolved solids
TSS	Total suspended solids
USEPA	United States Environmental Protection Agency

1.0 Introduction and Background

This report presents the results of the first quarter 2006 groundwater and surface water monitoring event conducted at Pacific Gas and Electric Company's (PG&E) Topock Compressor Station in March 2006. The Topock Groundwater and Surface Water Monitoring Program (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.

1.1 Background

The groundwater and surface water monitoring activities at the Topock site were initiated in 1998 as a continuation of the RFI groundwater investigations (CH2M HILL 2005a). 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 2004a) 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 DTSC approval 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 this quarterly 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. Groundwater and surface water elevation data and field water quality data are also measured during the monitoring events.

Beginning in March 2004, as directed by DTSC (DTSC 2004b), PG&E initiated groundwater extraction at the MW-20 bench, located adjacent to the floodplain area of the site, as part of an Interim Measures (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. Sample collection for the IM Performance Monitoring Program is performed as part of the GMP quarterly monitoring events.

The wells screened in the unconsolidated alluvial fan and fluvial deposits, which comprise the Alluvial Aquifer, have been separated into three depth intervals to present 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

Several changes have been made to the sampling frequency under the GMP since the July 2004 SAP was prepared. 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 between July 2004 (date of GMP SAP) and March 2006 regarding modifications to the sampling frequency for GMP monitoring wells.

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

Direction	Date	DTSC Approval[a]	New Frequency & Wells
Comments on July 2004 SAP	1/25/2005	DTSC 2005a	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 2005b	Weekly: MW-34-80, MW-34-100, MW-27-85, MW-27-60 Weekly (3 weeks): R-22, R-27, CON
Revised Contingency Plan sampling frequency	5/5/2005	DTSC 2005c	Weekly: MW-34-100 Biweekly: MW-27-85, MW-34-80 Monthly: MW-27-60
Preliminary comments to Monitoring Plan; incorporation of new floodplain wells	5/24/2005	DTSC 2005d	Weekly: MW-34-100 Biweekly: MW-27-85 Monthly: 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-33-40, MW-33-90, MW-34-55, MW-36-20, MW-36-40, MW-36-50, MW-39-50, MW-39-60, MW-42-30, MW-42-35, MW-42-55, MW-42-65, TW-2D

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

Direction	Date	DTSC Approval[a]	New Frequency & Wells
			Semi-annual: 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)
Addition of monthly wells with PE-1 start approval	1/26/2006	DTSC 2006a	Monthly: MW-36-70, MW-39-70

[a] Referenced approval letters are identified in Section 5.0.
Table includes monitoring frequency change directives in effect after the July 2004 SAP through March 2006.

An updated monitoring plan, describing the objectives, scope, and schedule for the GMP, was submitted to DTSC on April 11, 2005 (CH2M HILL 2005b). DTSC provided preliminary comments on May 24, 2005 (DTSC 2005d) 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.

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 2005h). Since July 2005, all groundwater samples analyzed for Cr(T) 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 2005i), 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. A *Revised Sampling Plan and Standard Operating Procedure for Depth-Specific Surface Water Sampling* was submitted to DTSC on May 16, 2005 (CH2M HILL 2005d). DTSC provided conditional approval and comments on the revised Section 5.0 on June 30, 2005 (DTSC 2005e. The *Revised Sampling Plan and Standard Operating Procedure* (CH2M HILL 2005e) that incorporated DTSC comments was submitted on July 13,

2005. The depth-specific surface water sampling program was initiated in July 2005 with eight in-channel stations and continued from September 2005 through March 2006 with nine in-channel stations (CH2M HILL 2005f). The in-channel surface water sampling will occur quarterly during normal river stages and monthly during low river stages (November 2005 through January 2006) through June 2006, at which time the surface water sampling program will be reevaluated.

1.5 Access Routes

On September 14, 2005, a *Site Access and Sampling Procedures for Groundwater Monitoring Wells Located Near Potential Southwestern Willow Flycatcher Habitat, Rev 2* (CH2M HILL 2005g) was submitted to DTSC outlining access route requirements to be followed during the southwestern willow flycatcher nesting season (typically May through September). These procedures were observed during the summer monitoring events through September 2005. Revisions to the nesting season procedures for 2006 were implemented after the first quarter 2006 and will be discussed in the next quarterly report.

1.6 Current GMP Monitoring Activity

Under the GMP through March 2006, samples are collected from monitoring wells and surface water stations according to the following schedule:

- Seventy-six monitoring wells are sampled semiannually (twice a year).
- Sixty-two monitoring wells (including one active water supply well), nine shoreline surface water stations, and nine in-channel, depth-specific surface water stations are sampled quarterly.
- Fourteen monitoring wells on the floodplain and nine surface water stations are sampled monthly. Nine in-channel, depth-specific surface water stations are sampled monthly during low river stages.
- One monitoring well on the floodplain is sampled biweekly (every 2 weeks).
- Four inactive supply wells are sampled biennially (every 2 years).

Subsequent changes to biweekly sampling events and short-term reestablishment of weekly events will take effect during the second quarter 2006. In addition, new wells installed during the spring of 2006 will be incorporated into the GMP program. These revised sampling frequencies are described in Section 4.0 and will be reported in the next quarterly report.

Figure 2 shows the locations and sampling frequencies of the groundwater and shoreline surface water monitoring stations in the GMP through March 2006, as well as the locations of the PG&E Topock Compressor Station, site features, and other monitoring wells. Table 2 (provided at the end of the document) summarizes information on well construction and sampling methods for all wells in the GMP, and other monitoring wells at the site. Figure 3 presents the locations of the depth-specific surface water sampling locations as of March 2006.

2.0 First Quarter 2006 Monitoring Activities

This section provides a summary of the monitoring and sampling activities completed during the first quarter 2006 reporting period and the specific groundwater and surface water analyses performed for the first quarter monitoring event. The quarterly monitoring event also fulfills the semiannual GMP sampling requirements. This quarterly/semiannual event will hereafter be referred to as the first quarter event.

2.1 Summary of Monitoring and Sampling

The first quarter 2006 monitoring event was conducted from March 6 through 16, 2006 and consisted of:

- Seventy-four monitoring wells and nine shoreline surface water stations (Figure 2) were sampled for Cr(VI), Cr(T), specific conductance, and pH. Monitoring wells MW-12 and MW-29 could not be sampled because access to these wells was blocked by drill rigs throughout the duration of the event. These wells were sampled during monitoring events in April 2006. Monitoring well MW-21 was not sampled because the well, having been purged dry, still did not produce enough water for sampling within 24 hours of purge completion.
- Nine wells were sampled for the full list of CCR Title 22 metals, in accordance with the July 2004 SAP (MW-10, MW-11, MW-12, MW-20-70, MW-20-130, MW-25, MW-34-55, MW-34-80, and MW-37D).
- Fourteen wells and two surface water locations were sampled for the IM performance monitoring parameters: total dissolved solids (TDS), oxygen 18, deuterium, chloride, sulfate, nitrate, bromide, alkalinity, calcium, magnesium, potassium, sodium, and boron.
- Seventy-two wells were sampled for the annual sitewide general chemistry characterization. The parameters included: TDS, oxygen 18, deuterium, alkalinity, chloride, sulfate, nitrate, alkalinity, calcium, magnesium, potassium, sodium, iron, manganese, ammonia, total organic carbon, and silica.
- Nine in-channel surface water stations were sampled for Cr(VI), Cr(T), specific conductance, pH, hardness, TDS, and total suspended solids (TSS). All of the in-channel stations were sampled at three depths, except for stations C-MAR and C-27, where only one depth could be sampled due to the shallow water column.
- Duplicate samples were collected at eight monitoring wells (MW-9, MW-13, MW-18, MW-31-60, MW-34-100, MW-35-135, MW-36-50, and MW-39-60) to assess field sampling and analytical procedures.
- A sitewide groundwater level survey was performed on March 8, 2006 to generate a groundwater elevation contour map of the shallow-depth interval of the alluvial aquifer for the first quarter 2006.

The sampling methods, procedures, field documentation of sampling, water level measurements, and field water quality monitoring were performed in accordance with the July 2004 SAP (CH2M HILL 2004a) and the *Sampling, Analysis, and Field Procedures Manual, Revision 1*, dated March 31, 2005 (CH2M HILL 2005h).

During the first quarter 2006 monitoring period, other monitoring events conducted in addition to the March event were: two monthly sampling events (January and February), three biweekly sampling events, and two in-channel surface water events (January and March). The results of these other monitoring events have been issued in periodic data reports to DTSC and project stakeholders during the reporting period. The monitoring data presented in this report (Tables 3 through 9, provided at the end of the document) include the results from all events in the first quarter 2006; however, only the data from the March 2006 quarterly event are discussed.

2.1.1 Site COC Analyses

All monitoring wells and surface water stations sampled during this event 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 (µg/L). The minimum reporting limit for Method SW 7196A for undiluted samples is 10 µg/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 µg/L. The minimum reporting limit for Cr(VI) using Method SW 7199 is 0.2 µg/L for undiluted samples.
- Dissolved Cr(T) was analyzed using Method SW 6010B or Method SW 6020A. Both methods have a reporting limit of 1 µg/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, nine monitoring wells were sampled for antimony, arsenic, barium, beryllium, cadmium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc (CCR Title 22 full list of metals). As required by DTSC (DTSC 2005a), the groundwater samples for CCR Title 22 dissolved metals analyses were field-filtered. The metals analyses were performed by Emax Laboratories in Torrance, California.

2.1.3 IM Performance Monitoring

During the March 2006 monitoring event, 14 selected monitoring wells and two surface water locations were sampled and analyzed for specific parameters to monitor the

performance and effects of IM pumping on groundwater chemistry in the floodplain area (CH2M HILL 2004b, DTSC 2004c). The water samples were analyzed for:

- TDS (USEPA Method 160.1).
- Chloride, sulfate, nitrate and bromide (anions; USEPA Method 300.0).
- Dissolved 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).

The performance monitoring parameter analyses were performed by Truesdail Laboratories, Inc. (TDS), Emax Laboratories (cations, anions, and alkalinity), and Zymax Laboratory (San Luis Obispo, CA; stable isotopes).

2.1.4 Additional Water Quality Characterization

To support annual sitewide water quality characterization (CH2M HILL 2004a), 72 monitoring wells onsite were sampled and analyzed for:

- TDS (USEPA Method 160.1).
- Chloride, sulfate, and nitrate (anions; USEPA Method 300.0).
- Dissolved calcium, magnesium, potassium, sodium, iron and manganese (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).

These additional analyte results, which are not part of the routine performance parameters, will be reported in the appendix of the annual GMP report.

2.1.5 In-channel Surface Water Analyses

Twenty-three depth-specific surface water samples were collected from the nine in-channel surface water stations. In addition to the site COCs, the in-channel surface water samples were analyzed for:

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

The in-channel samples were analyzed for these parameters, as well as pH and specific conductance, by Emax Laboratories, Inc. Truesdail Laboratories Inc. performed the Cr(VI) and Cr(T) analyses for the in-channel samples.

3.0 First Quarter 2006 Monitoring Results

This section summarizes the results of the groundwater and surface water sampling completed for the Topock GMP March 2006 quarterly monitoring event. Figure 2 shows the locations of the GMP monitoring wells and the nine shoreline surface water locations sampled along the Colorado River. Figure 3 shows the locations of the nine depth-specific surface water monitoring stations in the river channel.

The monitoring results and data presented for the March 2006 quarterly event include results for site COCs, the performance monitoring parameters, 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 analytes in groundwater samples collected during this quarterly event and prior events from the past year. In March 2006, the maximum detected Cr(VI) concentration was 10,700 µg/L and the maximum detected Cr(T) concentration was 10,600 µg/L, both at well MW-20-130. Overall, the March 2006 chromium results are consistent with prior results (Table 3).

3.1.2 Surface Water

Table 4 presents the results of chromium and other analytes in shoreline surface water samples collected during the March quarterly event and prior events from the last year. Cr(VI) and Cr(T) were not detected in any of the water samples collected at the nine shoreline surface water stations during the first quarter.

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 July 2005 through March 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 first quarter.

3.1.3 Hexavalent Chromium 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, during the March 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 µg/L (the California drinking water standard for total chromium). The Cr(VI) results for the shoreline surface water sampling during the March 2006 quarterly event are shown on Figure 4A.

The overall distribution and concentrations of Cr(VI) in groundwater samples collected during March 2006 (Figures 4A, 4B, and 4C) are generally consistent and comparable with the prior quarterly monitoring data.

Within the first quarter, results indicate a brief decrease followed by a steady increase in concentrations in MW-34-100 (Table 3). MW-34-100 is the only well within the capture zone of the IM pumping that showed an increasing trend in concentration during the past year. Declining or stable concentration trends continue to be observed in the MW-31, MW-36, and MW-39 well clusters. This is likely a response to IM pumping. Declining trends are also apparent in wells MW-12, MW-25, and MW-38D, although trends in these wells are not as dramatic as in wells closer to the IM pumping center.

The Cr(VI) concentration at the water supply well at Park Moabi was 9.5 µg/L, which is comparable with prior results.

3.2 Additional Analytes Results

3.2.1 IM Performance Monitoring

Table 6 presents the results of the general chemistry and stable isotope analyses for the 14 monitoring wells and two surface-water stations in the IM performance monitoring area from March 2004 through March 2006 (DTSC 2004c). The general chemistry and stable isotope data collected under the GMP are used to assess water quality conditions and data trends in the IM performance monitoring floodplain area.

3.2.2 CCR Title 22 Metals

Table 7 presents the CCR Title 22 metal results for the GMP monitoring wells sampled from September 2004 through March 2006. In addition to Cr(T), the trace metals detected in the March 2006 groundwater sampling event were arsenic, barium, cobalt, copper, molybdenum, nickel, selenium, vanadium, and zinc. Excluding Cr(T) and arsenic, the dissolved concentrations of the trace metals detected during the March 2006 monitoring event are below the respective California drinking water standards. Arsenic was either non-detect or detected at concentrations below the California and federal maximum contaminant level in all wells, except in well MW-12.

3.3 Analytical Data Quality Review

The laboratory analytical data generated from the March 2006 monitoring event were independently reviewed by project chemists to assess data quality and identify deviations from analytical requirements. A detailed discussion of data quality for 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 March 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 for the

March 2006 monitoring event 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 24 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.

Quantitation and Sensitivity: All method and analyte combinations met the project reporting limit objectives, with the exception of the matrix interference issue explained above.

Holding Time Data Qualification: All method holding time requirements were met.

Method Blanks: All method blank criteria were met with the following exception: the potassium analysis for MW-28-25 was outside acceptance criteria, and the result was qualified as estimated (J flagged).

Calibration: All initial and continuing instrument calibration criteria were met, with the following exceptions: the potassium analyses for R-27 and R-28 were outside acceptance criteria, and the results were estimated (J flagged).

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

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

Field Duplicates: All field duplicates acceptance criteria were met.

Laboratory Control and Duplicate Samples: All laboratory control sample criteria were met, with the following exceptions: the TDS analyses for MW- 30-30, MW-31-60, and MW-31-60 field duplicate were outside acceptance criteria, and the results were estimated (J flagged).

3.4 Water Level Monitoring

Table 8 presents the water level measurements and groundwater and surface water elevations from the March 2006 monitoring event. Water level measurements from prior monitoring events are summarized in this table for reference and comparison. Table 8 also lists salinity data for the wells where water levels were measured. Groundwater salinity during this monitoring event ranged from 0.07 percent (MW-27-20) to 3.00 percent (well MW-30-30)—a range that is consistent with results of prior monitoring. To account for the groundwater density differences between wells with different salinities, all groundwater elevations measured in the monitoring wells have been normalized to an equivalent freshwater head.

Since 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. This

network currently includes over 70 transducers. This monitoring is ongoing and is being reported as part of the IM activities. The average groundwater elevation data for wells in the floodplain area are calculated monthly and are presented in the IM performance monitoring reports (CH2M HILL 2006a).

Beginning in June 2005 at DTSC's direction (DTSC 2005i), a sitewide water level data set has been collected quarterly to construct a groundwater elevation contour map for the upper depth interval of the Alluvial Aquifer. During the first quarter event, a sitewide water level survey was conducted on March 8, 2006. This survey involved the manual collection of groundwater level data at 22 shallow wells within a 2-hour period. Figure 5 presents the groundwater elevation contours for the upper-depth interval of the Alluvial Aquifer (shallow monitoring wells). Some water levels from transducer measurements at the time of the snapshot were used to aid in contouring. 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.

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 2004a, 2005b). Water quality field measurements were also recorded during surface water sampling. The measured field parameters included specific conductance, temperature, pH, turbidity, salinity, oxidation-reduction potential, TDS, and dissolved oxygen. Table 9 summarizes the field water quality data collected (specific conductance, temperature, pH, oxidation-reduction potential, and dissolved oxygen) during the March 2006 quarterly event and prior monitoring events. Field data sheets and chain of custody records for the March quarterly event are presented in Appendix A.

4.0 Status of Monitoring Activities

This section summarizes the scope and status of ongoing and future monitoring activities scheduled for the Topock GMP. The access procedures for the Southwestern Willow Flycatcher nesting season in 2006 were revised in April 2006 (CH2M HILL 2006b). Havasu National Wildlife Refuge, the Bureau of Land Management, and DTSC approved the modifications to the procedures in May 2006. These procedures will be in effect for the remaining duration of the nesting season, May 1 through September 30, 2006.

Table 10 summarizes the DTSC-directed changes to sampling frequency that will be implemented during the second quarter of 2006. It is anticipated that new monitoring well clusters that were installed during spring 2006 will be incorporated into the GMP sampling program upon direction from DTSC.

TABLE 10
Topock GMP Monitoring Frequency Changes After March 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Direction	Date	DTSC Approval	New Frequency & Wells
Initial sampling with conditional approval of well installation work plan	1/6/2006	DTSC 2006b	Monthly: (3 months, April - June) MW-44-70, MW-44-115, MW-44-125, MW-46-175, MW-46-205
Initiation of biweekly sampling of 2 new wells	3/17/2006	DTSC – e-mail	Biweekly: MW-44-115, MW-44-125
Transition of 2 wells to weekly sampling	4/13/2006	DTSC – e-mail	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 2 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 includes monitoring frequency change directives in effect after March 2006.

4.1 Quarterly Monitoring – Second Quarter 2006 Event

The second quarter 2006 monitoring event is scheduled to be conducted in May 2006. The groundwater and surface water monitoring report for the second quarter 2006 GMP event will be submitted approximately 10 to 12 weeks after sampling.

The in-channel surface water sampling will continue until June 2006, after which the surface water monitoring program will be reevaluated and modified as warranted, with DTSC approval.

4.2 Monthly Monitoring

Second quarter monthly monitoring events are to be conducted during April and June 2006 and currently include 15 routine monitoring wells, including MW-46-205 installed in the spring of 2006.

4.3 Biweekly Well Sampling

Biweekly sampling of MW-34-100, MW-44-115, MW-44-125, and MW-46-175 will continue through the second quarter of 2006.

5.0 References

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Tables

TABLE 2

Well Construction and Sampling Summary, March 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 Monitoring Wells										
MW-09	Bat Cave Wash	536.56	77 - 87	4 in PVC	89.4	81.0	CD pump	3	11	
MW-09	Bat Cave Wash	536.56	77 - 87	4 in PVC	89.4	81.0	CD pump	3	11	
MW-10	Bat Cave Wash	530.65	74 - 94	4 in PVC	96.9	74.4	CD pump	5	40	
MW-11	Bat Cave Wash	522.61	62.5 - 82.5	4 in PVC	86.1	66.3	CD pump	5	30	
MW-12	East of Station	484.01	27.5 - 47.5	4 in PVC	50.4	28.5	Temp. pump	3	40	
MW-13	Bat Cave Wash	488.64	28.5 - 48.5	4 in PVC	52.0	32.4	CD pump	4	30	
MW-14	East Mesa	570.99	111 - 131	4 in PVC	133.8	114.4	CD pump	4	30	
MW-15	East of New Ponds	641.52	180.5 - 200.5	4 in PVC	203.0	185.5	CD pump	5	30	
MW-16	Near New Ponds	657.31	198 - 218	4 in PVC	218.1	201.0	CD pump	7	35	
MW-17	West of Mesa Area	589.96	130 - 150	4 in PVC	153.6	133.4	CD pump	5	32	
MW-18	West Mesa	545.32	85 - 105	4 in PVC	106.7	89.1	CD pump	5	30	
MW-19	Route 66	499.92	46 - 66	4 in PVC	65.8	44.2	CD pump	7	41	
MW-20-070	MW-20 bench	500.15	50 - 70	4 in PVC	69.6	45.6	CD pump	10	53	
MW-20-100	MW-20 bench	500.58	89.5 - 99.5	4 in PVC	101.4	46.4	CD pump	10	110	
MW-20-130	MW-20 bench	500.66	121 - 131	4 in PVC	132.3	47.0	CD pump	10	180	
MW-21	Route 66	505.55	39 - 59	4 in PVC	58.5	50.1	CD pump	10	10	low recharge well; purges dry at 1 casing volume
MW-22	Floodplain	460.72	5.5 - 10.5	2 in PVC	12.4	5.6	Peristaltic	0.2	4	
MW-23	East of Station	507.33	60 - 80	4 in PVC	81.4	51.8	CD Pump	5	20	low recharge well; purges dry at 1 casing volume
MW-24A	MW-24 Bench	567.16	104 - 124	4 in PVC	127.5	111.2	CD pump	3	30	
MW-24B	MW-24 Bench	564.76	193 - 213	4 in PVC	214.8	108.8	CD pump	7	210	
MW-24BR	MW-24 Bench	563.95	378 - 437	4 in PVC	441.0	103.3	CD pump	8	185	low recharge well; purges dry at 1 casing volume
MW-25	Near Bat Cave Wash	542.90	84.5 - 104.5	4 in PVC	106.5	87.3	CD pump	5	32	
MW-26	Route 66	502.22	51.5 - 71.5	2 in PVC	70.1	46.8	CD pump	7	50	
MW-27-020	Floodplain	460.56	7 - 17	2 in PVC	14.4	5.2	Temp. pump	1	7	
MW-27-060	Floodplain	461.38	47.3 - 57.3	2 in PVC	59.0	5.8	Ded. Redi-Flo AR	2	25	
MW-27-085	Floodplain	460.99	77.5 - 87.5	2 in PVC	80.0	6.3	Ded. Redi-Flo AR	2	36	
MW-28-025	Floodplain	466.85	13 - 23	2 in PVC	21.1	10.6	Ded. Redi-Flo AR	1	5	
MW-28-090	Floodplain	467.51	70 - 90	2 in PVC	98.4	11.7	Ded. Redi-Flo AR	2	50	
MW-29	Floodplain	485.21	29.5 - 39.5	2 in PVC	41.5	29.2	Temp. pump	0.5	6	
MW-30-030	Floodplain	468.12	12 - 32	2 in PVC	26.9	13.1	Ded. Redi-Flo AR	1	10	
MW-30-050	Floodplain	468.81	40 - 50	4 in PVC	52.6	13.3	Ded. Redi-Flo AR	2	75	
MW-31-060	MW-20 Bench	496.81	41.5 - 61.5	4 in PVC	64.0	41.4	CD pump	10	40	

TABLE 2

Well Construction and Sampling Summary, March 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 Monitoring Wells										
MW-31-135	MW-20 Bench	498.11	113 - 133	2 in PVC	135.4	43.0	Redi-Flo AR	3	60	
MW-32-020	Floodplain	461.51	10 - 20	2 in PVC	19.6	6.3	Ded. Redi-Flo AR	1.5	6	
MW-32-035	Floodplain	461.63	27.5 - 35	4 in PVC	37.2	6.1	Ded. Redi-Flo AR	2	60	
MW-33-040	Floodplain	487.38	29 - 39	4 in PVC	41.8	31.9	Temp. pump	0.5	4	
MW-33-090	Floodplain	487.55	69 - 89	4 in PVC	88.3	32.1	Ded. Redi-Flo AR	2	110	
MW-33-150	Floodplain	487.77	132 - 152	2 in PVC	155.0	32.8	Redi-Flo AR	3	60	
MW-33-210	Floodplain	487.25	190 - 210	2 in PVC	223.0	31.9	Ded. Redi-Flo AR	3	90	
MW-34-055	Floodplain	460.95	45 - 55	4 in PVC	56.6	4.8	Ded. Redi-Flo AR	2	100	
MW-34-080	Floodplain	461.20	73 - 83	4 in PVC	84.3	5.2	Ded. Redi-Flo AR	3	150	
MW-34-100	Floodplain	460.96	89.5 - 99.5	2 in PVC	117.0	6.2	Ded. Redi-Flo AR	2	55	
MW-35-060	Route 66	484.19	41 - 61	2 in PVC	56.8	28.3	Redi-Flo AR	2	18	
MW-35-135	Route 66	483.57	116 - 136	2 in PVC	158.7	28.1	Redi-Flo AR	3	66	
MW-36-020	Floodplain	469.26	10 - 20	1 in PVC	22.7	13.8	Peristaltic	0.5	4	
MW-36-040	Floodplain	469.61	30 - 40	1 in PVC	42.8	14.4	Peristaltic	0.5	4	
MW-36-050	Floodplain	469.60	46 - 51	1 in PVC	53.3	14.9	Peristaltic	0.75	5	
MW-36-070	Floodplain	469.25	60 - 70	1 in PVC	72.5	13.6	Peristaltic	0.5	7	
MW-36-090	Floodplain	469.61	80 - 90	1 in PVC	92.5	15.5	Peristaltic	0.4	10	
MW-36-100	Floodplain	469.64	88 - 98	2 in PVC	110.2	15.6	Ded. Redi-Flo AR	2	45	
MW-37D	Bat Cave Wash	486.19	180 - 200	2 in PVC	226.7	30.7	Redi-Flo AR	3	100	
MW-37S	Bat Cave Wash	485.97	64 - 84	2 in PVC	87.0	30.4	Redi-Flo AR	2	30	
MW-38D	Bat Cave Wash	525.31	163 - 183	2 in PVC	190.9	70.9	Redi-Flo AR	3	60	
MW-38S	Bat Cave Wash	525.51	75 - 95	2 in PVC	98.1	69.8	Redi-Flo AR	1	13	
MW-39-040	Floodplain	468.02	30 - 40	1 in PVC	42.1	12.4	Peristaltic	0.5	3.5	
MW-39-050	Floodplain	467.93	47 - 52	1 in PVC	54.6	12.6	Peristaltic	0.5	5	
MW-39-060	Floodplain	468.00	49 - 59	1 in PVC	66.3	12.9	Peristaltic	0.5	6	
MW-39-070	Floodplain	468.02	60 - 70	1 in PVC	71.7	13.2	Peristaltic	0.5	7	
MW-39-080	Floodplain	467.92	70 - 80	1 in PVC	82.6	13.3	Peristaltic	0.5	9	
MW-39-100	Floodplain	468.01	80 - 100	2 in PVC	117.7	14.2	Ded. Redi-Flo AR	2	45	
MW-40D	I-40 Median	566.08	240 - 260	2 in PVC	266.0	110.4	Redi-Flo AR	3	75	
MW-40S	I-40 Median	566.04	115 - 135	2 in PVC	134.0	109.9	Redi-Flo AR	2	13	
MW-41D	Bat Cave Wash	479.42	271 - 291	2 in PVC	313.0	23.8	Redi-Flo AR	3	145	
MW-41M	Bat Cave Wash	479.83	170 - 190	2 in PVC	192.4	23.7	Redi-Flo AR	3	85	

TABLE 2

Well Construction and Sampling Summary, March 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 Monitoring Wells										
MW-41S	Bat Cave Wash	480.07	40 - 60	2 in PVC	61.6	23.7	Redi-Flo AR	2	42	
MW-42-030	Floodplain	463.81	9.8 - 29.8	2 in PVC	32.0	8.6	Redi-Flo AR	2	28	
MW-42-055	Floodplain	463.87	42.5 - 52.5	2 in PVC	56.0	8.0	Redi-Flo AR	3	21	
MW-42-065	Floodplain	463.37	56.2 - 66.2	2 in PVC	80.0	8.4	Redi-Flo AR	3	36	
MW-43-025	Floodplain	462.54	15 - 25	2 in PVC	27.0	6.4	Redi-Flo AR	1	9	
MW-43-075	Floodplain	462.71	65 - 75	2 in PVC	77.0	6.4	Ded. Redi-Flo AR	2	28	
MW-43-090	Floodplain	462.76	80 - 90	2 in PVC	102.0	6.9	Ded. Redi-Flo AR	2	47	
OW-03D	West Mesa	558.63	242 - 262	2 in PVC	274.0	102.4	Temp Redi-Flo AR	3	90	
OW-03M	West Mesa	558.90	180 - 200	2 in PVC	202.0	101.7	Temp Redi-Flo AR	3	54	
OW-03S	West Mesa	558.58	86 - 116	2 in PVC	118.0	102.3	Temp Redi-Flo AR	2	30	
Other Site Wells not in GMP										
MW-01	New Ponds	661.76	201 - 211	4 in PVC	217.0	206.0	air bladder pump	NA	NA	active PG&E pond monitoring well
MW-03	New Ponds	650.51	193 - 203	4 in PVC	205.0	193.8	air bladder pump	NA	NA	active PG&E pond monitoring well
MW-04	New Ponds	625.73	164.5 - 174.5	4 in PVC	176.3	170.1	air bladder pump	NA	NA	active PG&E pond monitoring well
MW-05	New Ponds	635.69	175.9 - 184.9	4 in PVC	186.2	179.7	air bladder pump	NA	NA	active PG&E pond monitoring well
MW-06	New Ponds	642.84	184.5 - 193.5	4 in PVC	194.9	186.7	air bladder pump	NA	NA	active PG&E pond monitoring well
MW-07	New Ponds	631.91	172.7 - 182.7	4 in PVC	185.0	176.5	air bladder pump	NA	NA	active PG&E pond monitoring well
MW-08	New Ponds	627.54	169 - 178	4 in PVC	179.9	171.4	air bladder pump	NA	NA	active PG&E pond monitoring well
MW-44-070	Floodplain	471.88	61 - 71	2 in PVC	70.0	16.3	Temp pump	1.5	38	
MW-44-115	Floodplain	471.99	103 - 113	2 in PVC	113.5	16.7	Temp pump	3	60	
MW-44-125	Floodplain	471.99	116 - 125	2 in PVC	128.8	16.1	Temp pump	0.35	57	
MW-45-095a	Floodplain	470.03	83 - 93	2 in PVC	97.0	17.1	Temp pump	1	40	
MW-45-095b	Floodplain	469.51	83 - 93	1 in PVC	97.0	17.9	Temp pump	NA	9	
MW-46-175	Floodplain	482.16	165 - 175	2 in PVC	181.8	27.4	Temp pump	1.5	100	
MW-46-205	Floodplain	482.23	196.5 - 206.5	2 in PVC	224.7	28.0	Temp pump	2	90	
MW-47-055	Floodplain	483.87	45 - 55	2 in PVC	55.0	27.5	Temp pump	2	30	
MW-47-115	Floodplain	484.06	105 - 115	2 in PVC	115.0	27.9	Temp pump	1.5	55	
MWP-08	Old Ponds	677.48	181 - 211	3 in PVC	213.0	189.5	---	NA	NA	inactive monitoring well
MWP-10	Old Ponds	675.81	194 - 234	3 in PVC	237.0	208.6	---	NA	NA	inactive monitoring well
MWP-12	Old Ponds	663.49	96 - 136	3 in PVC	143.0	107.8	---	NA	NA	inactive monitoring well
P-2	New Ponds	537.60	238.5 - 248.5	4 in PVC	251.0	169.8	---	NA	NA	inactive monitoring well
PGE-09N	East of River	462.21	25 - 95	12 in Steel	---	---	---	NA	NA	

TABLE 2

Well Construction and Sampling Summary, March 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
Other Site Wells not in GMP										
PGE-09S	East of River	461.99	30 - 100	12 in Steel	---	---	---	NA	NA	
Test and Extraction Wells										
IW-02	East Mesa	550.10	170 - 330	6 in Steel	343.0	95.8	---	NA	NA	IM3 injection well
IW-03	East Mesa	554.44	160 - 320	6 in Steel	333.0	100.1	---	NA	NA	IM3 injection well
PE-01	Floodplain	457.52	79 - 89	6 in Steel	97.0	16.4	CD pump	3	400	
TW-01	Plan B Test	620.55	169 - 269	5 in PVC	240.2	164.5	CD pump	20	200	inactive pilot test well
TW-02D	MW-20 bench	499.57	113 - 148	6 in PVC	150.0	69.3	CD pump	70.1	160	active IM extraction well
TW-02S	MW-20 bench	499.05	42.5 - 92.5	6 in PVC	102.1	41.4	CD pump	6	75	IM extraction well
TW-03D	MW-20 bench	---	111 - 156	8 in PVC	157.0	46.5	Temp pump	NA	NA	IM extraction well
TW-04	Floodplain	484.11	210 - 250	4 in PVC	255.0	28.7	Temp pump	NA	NA	
Water Supply Wells										
PGE-06	MW-24 Bench	563.32	110 - 180	14 in Steel	181.0	107.3	CD pump	24	650	inactive supply
PGE-07	MW-24 Bench	563.89	195 - 330	14 in Steel	332.0	108.1	CD pump	12	600	inactive supply
PGE-08	Station	596.01	405 - 554	6.75 in Steel	564.0	140.8	CD pump	20	1900	inactive injection
PM-03	Park Moabi	518.55	80 - 200	8 in Steel	252.0	61.3	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
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 3

Groundwater COC Sampling Results March 2005 through March 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)	pH
MW-9	08-Mar-05		343	316	3,010	7.74
	07-Apr-05		338	318	---	---
	16-Jun-05		320	304	2,800	7.94
	16-Jun-05	FD	322	298	2,820	7.82
	03-Oct-05		309	287 FF	2,740	7.50
	07-Mar-06		298	291 FF	2,650	7.60
	07-Mar-06	FD	301	295 FF	2,630	7.62
MW-10	08-Mar-05		1140	1020	3,370	7.66
	08-Mar-05	FD	1030	1020	3,420	7.72
	16-Jun-05		1490	1210	3,290	8.03
	03-Oct-05		4570	4900 FF	1,690	7.74
	06-Mar-06		2070	2120 FF	2,730	7.56
MW-11	08-Mar-05		396	392	2,310	7.89
	16-Jun-05		362	334	2,200	8.02
	03-Oct-05		649	617 FF	2,330	7.33
	06-Mar-06		323	306 FF	2,360	7.47
MW-12	10-Mar-05		925	883	3,980	8.62
	10-Mar-05	FD	925	841	4,000	8.65
	06-Apr-05		810	871	---	---
	06-Apr-05	FD	810	868	---	---
	13-Jun-05		852	835	3,910	8.45
	16-Sep-05		698	618 FF	3,630	8.64
	04-Oct-05		660	644 FF	2,980	8.70
	04-Oct-05	FD	670	613 FF	2,970	8.70
	13-Dec-05		626	602 FF	2,930	8.41
	18-Apr-06		1210	1300 FF	3,450	8.19
MW-13	11-Mar-05		19.2	19.0	1,850	8.00
	14-Jun-05		14.8	19.1	1,850	7.62
	04-Oct-05		20.3	24.5 FF	1,770	7.08
	13-Dec-05		21.4	20.0 FF	1,740	7.51
	13-Dec-05	FD	21.5	22.1 FF	1,750	7.52
	08-Mar-06		21.8	18.9 FF	1,820	7.60
	08-Mar-06	FD	21.8	19.1 FF	1,800	7.53
MW-14	09-Mar-05		32.0	32.5	1,510	7.89
	07-Apr-05		34.3	38.0	---	---
	15-Jun-05		30.0	30.4	1,450	8.27
	15-Jun-05	FD	28.4	29.2	1,450	8.30
	06-Oct-05		35.4	34.8 FF	1,430	7.71
	15-Dec-05		31.7	30.0 FF	1,440	7.24
	09-Mar-06		32.5	29.1 FF	1,420	7.56
MW-15	09-Mar-05		8.40	8.40	1,350	7.81
	17-Jun-05		7.70	8.00	1,500	7.83
	06-Oct-05		7.60	14.0 JFF	1,410	7.75
	07-Mar-06		15.2	13.8 FF	1,790	7.75
MW-16	06-Oct-05		4.10	21.8 JFF	1,020	7.97

TABLE 3

Groundwater COC Sampling Results March 2005 through March 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)	pH
MW-16	07-Mar-06		9.00	7.70 FF	1,050	7.86
MW-17	05-Oct-05		13.6	11.7 FF	1,670	7.63
	09-Mar-06		16.6	14.7 FF	1,710	7.60
MW-18	09-Mar-05		34.1	34.6	1,190	7.81
	09-Mar-05	FD	33.3	36.0	1,180	7.84
	15-Jun-05		23.2	22.2	1,420	8.10
	06-Oct-05		34.7 J	29.9 FF	1,210	7.68
	09-Mar-06		37.6	31.0 FF	1,140	7.45
	09-Mar-06	FD	38.1	32.3 FF	1,130	7.50
MW-19	07-Mar-05		1080	1010	2,150	7.73
	14-Jun-05		1150	1140	2,000	7.71
	04-Oct-05		1060	996 FF	1,970	7.65
	12-Dec-05		1240	1270 FF	2,040	7.52
	09-Mar-06		1090	1080 FF	2,080	7.50
MW-20-70	10-Mar-05		8280	8630	3,240	7.76
	07-Apr-05		8740	9020	---	---
	15-Jun-05		6680	6450	2,980	8.02
	15-Jun-05	FD	7000	7080	3,020	7.96
	11-Oct-05		6060	5930 FF	2,950	7.49
	15-Dec-05		4640	4310 FF	2,850	7.72
	10-Mar-06		5170	4510 FF	2,870	7.61
MW-20-100	10-Mar-05		8440	7770	4,180	8.03
	15-Jun-05		9600	10100	3,790	8.16
	11-Oct-05		10200	9430 FF	3,600	7.57
	15-Dec-05		9460	9010 FF	3,550	7.68
	10-Mar-06		10100	10200 FF	3,690	7.61
MW-20-130	09-Mar-05		8730	8900	11,000	7.90
	09-Mar-05	FD	8810	8170	10,900	7.81
	07-Apr-05		8980	8870	---	---
	15-Jun-05		10800	10300	11,000	8.15
	07-Oct-05		9590	10700 FF	12,000	7.71
	16-Dec-05		10500	9340 FF	13,000	7.53
	10-Mar-06		10700	10600 FF	13,600	7.62
MW-21	08-Mar-05		ND (1.0)	ND (1.0)	8,890	7.39
	14-Jun-05		ND (1.0)	ND (1.0)	12,500	7.31
	05-Oct-05		ND (1.0) J	ND (1.0) JFF	13,400	7.03
	14-Dec-05		ND (1.0)	ND (1.0) FF	8,960	7.08
MW-22	10-Mar-05		ND (2.0)	ND (1.0)	42,600	6.88
	17-Jun-05		ND (1.0)	ND (1.0)	31,100	6.95
	04-Oct-05		ND (2.0)	ND (1.0) JFF	44,600	6.88
	16-Dec-05		ND (2.0)	ND (1.0) FF	34,500	6.89
	15-Mar-06		ND (2.0)	ND (1.0) FF	36,300	7.25
MW-23	08-Mar-05		ND (1.0)	2.90	17,000	7.35
	14-Jun-05		8.90	7.70	15,900	7.26

TABLE 3

Groundwater COC Sampling Results March 2005 through March 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)	pH
MW-23	04-Oct-05		ND (1.0)	ND (1.0) FF	19,100	7.18
	14-Dec-05		8.80	10.5 FF	16,400	7.17
	08-Mar-06		11.9	ND (1.0) FF	18,800	7.27
MW-24A	07-Mar-05		3390	3180	3,330	7.88
	07-Mar-05	FD	3360	3290	3,380	7.96
	16-Jun-05		3280	2640	3,180	8.09
	03-Oct-05		3120	2930 FF	3,200	7.63
	03-Oct-05	FD	3040	2630 FF	3,190	7.61
	06-Mar-06		3490	3980 FF	3,100	7.62
MW-24B	07-Mar-05		5320	4950	13,400	8.13
	16-Jun-05		5640	5660	12,700	8.29
	03-Oct-05		5240	4930 FF	14,900	7.84
	07-Mar-06		5650	5970 FF	15,400	7.92
MW-24BR	08-Mar-05		ND (1.0)	ND (1.0)	14,000	8.14
	15-Dec-05		ND (1.0)	ND (1.0) FF	13,600	8.34
	16-Mar-06		ND (1.0)	1.20 FF	15,600	7.92
MW-25	09-Mar-05		1740	1600	1,410	7.67
	07-Apr-05		1620	1700	---	---
	14-Jun-05		1730	1670	1,500	7.65
	14-Jun-05	FD	1760	1660	1,510	7.54
	04-Oct-05		1540	1470 FF	1,390	7.63
	04-Oct-05	FD	1540	1480 FF	1,190	7.61
	14-Dec-05		1460	1370 FF	1,360	7.39
	14-Dec-05	FD	1450	1350 FF	1,350	7.41
	09-Mar-06		1360	1430 FF	1,400	7.43
MW-26	08-Mar-05		2990	3160	3,180	7.84
	08-Mar-05	FD	2990	3050	3,090	7.77
	13-Jun-05		3370	3140	3,420	7.57
	04-Oct-05		3040	2990 FF	3,120	7.60
	12-Dec-05		3220	3160 FF	3,850	7.43
	08-Mar-06		3280	3020 FF	3,300	7.54
MW-27-20	08-Mar-05		ND (0.2)	ND (1.0)	1,830	7.75
	04-Apr-05		ND (0.2)	ND (1.0)	---	---
	04-May-05		ND (0.2)	ND (1.0)	---	---
	18-Jul-05		ND (0.2)	ND (1.0) FF	1,060	7.70
	05-Oct-05		ND (0.21)	ND (1.0) FF	1,040	7.56
	14-Dec-05		ND (0.2)	ND (1.0) FF	1,340	7.42
	06-Mar-06		ND (0.2)	ND (1.0) FF	998	7.66
MW-27-60	01-Mar-05		ND (1.0)	ND (1.0) J	---	---
	08-Mar-05		ND (1.0)	ND (1.0)	---	---
	23-Mar-05		ND (1.0)	ND (1.0)	---	---
	29-Mar-05		ND (1.0)	ND (1.0)	---	---
	05-Apr-05		ND (1.0)	ND (1.0)	13,500	---
	12-Apr-05		ND (1.0)	ND (1.0)	---	---
	19-Apr-05		ND (1.0)	ND (1.0)	---	---

TABLE 3

Groundwater COC Sampling Results March 2005 through March 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)	pH
MW-27-60	26-Apr-05	ND (1.0)	ND (1.0)	---	---
	04-May-05	ND (1.0)	ND (1.0)	---	---
	18-Jul-05	ND (1.0)	1.80 FF	14,200	7.70
	05-Oct-05	ND (1.0)	ND (1.0) FF	13,900	7.18
	15-Dec-05	ND (1.0)	ND (1.0) FF	13,700	7.28
	07-Mar-06	ND (1.0)	ND (1.0) FF	13,600	7.39
MW-27-85	01-Mar-05	ND (1.0)	ND (1.0) J	---	---
	08-Mar-05	ND (2.0)	ND (1.0)	---	---
	23-Mar-05	ND (1.0)	ND (1.0)	---	---
	29-Mar-05	ND (1.0)	ND (1.0)	---	---
	05-Apr-05	ND (1.0)	ND (1.0)	17,200	---
	12-Apr-05	ND (1.0)	ND (1.0)	---	---
	19-Apr-05	ND (1.0)	ND (1.0)	---	---
	26-Apr-05	ND (1.0)	ND (1.0)	---	---
	04-May-05	ND (1.0)	ND (1.0)	---	---
	19-May-05	ND (1.0)	ND (1.0)	---	---
	02-Jun-05	ND (1.0)	ND (1.0)	---	---
	19-Jul-05	ND (1.0)	3.00 FF	16,700	7.33
	16-Aug-05	ND (1.0)	ND (2.6) FF	---	---
	08-Sep-05	ND (1.0)	ND (1.0) FF	---	---
	05-Oct-05	ND (1.0)	ND (1.0) FF	19,800	7.12
	03-Nov-05	ND (2.0) J	ND (1.0) FF	---	---
	15-Dec-05	1.20 J	6.60 FF	17,500	7.29
	12-Jan-06	ND (1.0)	ND (1.0) FF	---	---
	08-Feb-06	ND (1.0)	ND (1.0) FF	---	---
	06-Mar-06	ND (1.0)	ND (1.0) FF	20,600	7.23
MW-28-25	10-Mar-05	ND (0.2)	ND (1.0)	1,290	7.75
	04-Apr-05	ND (0.2)	ND (1.0)	---	---
	03-May-05	ND (0.2)	ND (1.0)	---	---
	15-Jun-05	ND (0.2)	ND (1.0)	1,300	7.90
	13-Jul-05	ND (0.2)	ND (1.0) FF	---	---
	06-Oct-05	ND (0.2)	ND (1.0) FF	1,210	7.36
	16-Dec-05	ND (0.2)	ND (1.0) FF	1,430	7.28
	09-Mar-06	ND (0.2)	ND (1.0) FF	1,040	7.42
MW-28-90	07-Mar-05	ND (1.0)	ND (1.0)	9,520	7.89
	22-Mar-05	ND (1.0)	ND (1.0)	---	---
	04-Apr-05	ND (1.0)	ND (1.0)	---	---
	20-Apr-05	ND (1.0)	ND (1.0)	---	---
	03-May-05	ND (1.0)	ND (1.0)	---	---
	19-May-05	ND (1.0)	ND (1.0)	---	---
	02-Jun-05	ND (1.0)	ND (1.0)	---	---
	15-Jun-05	ND (1.0)	ND (1.0)	9,860	8.04
	01-Jul-05	ND (1.0)	ND (1.0)	---	---
	13-Jul-05	ND (1.0)	ND (1.0) FF	---	---
	18-Aug-05	ND (1.0)	1.10 FF	---	---
	09-Sep-05	ND (1.0)	ND (1.0) FF	---	---

TABLE 3

Groundwater COC Sampling Results March 2005 through March 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)	pH
MW-28-90	06-Oct-05		ND (1.0)	ND (1.0) FF	8,230	7.80
	02-Nov-05		ND (1.0)	ND (1.0) FF	---	---
	16-Dec-05		ND (1.0)	ND (1.0) FF	8,400	7.57
	10-Jan-06		ND (1.0)	ND (1.0) FF	---	---
	09-Feb-06		ND (0.2) J	ND (1.0) FF	---	---
	06-Mar-06		ND (1.0)	ND (1.0) FF	8,970	7.66
MW-29	09-Mar-05		ND (2.0)	ND (1.0)	24,900	7.32
	06-Apr-05		ND (1.0)	ND (1.0)	---	---
	05-May-05		ND (0.2)	ND (1.0)	---	---
	15-Jun-05		ND (0.2)	ND (1.0)	3,760	7.87
	04-Oct-05		ND (0.2)	ND (1.0) FF	4,620	7.37
	12-Dec-05		ND (0.2)	ND (1.0) FF	5,620	7.38
	13-Apr-06		ND (0.2)	ND (1.0) FF	3,340	7.74
MW-30-30	10-Mar-05		ND (5.0)	ND (1.0)	57,300	7.00
	06-Apr-05		ND (2.0)	ND (1.0)	---	---
	09-May-05		ND (2.0)	ND (1.0)	---	---
	07-Oct-05		ND (0.2)	ND (1.0) FF	57,100	7.09
	15-Dec-05		ND (5.0)	ND (1.0) FF	61,500	7.05
	13-Mar-06		ND (5.0)	ND (1.0) FF	65,300	7.04
MW-30-50	10-Mar-05		ND (1.0)	ND (1.0)	10,200	7.29
	06-Apr-05		18.5	15.5	---	---
	06-Apr-05	FD	17.1 J	13.0	---	---
	09-May-05		ND (1.0)	ND (1.0)	---	---
	09-May-05	FD	ND (1.0)	ND (1.0)	---	---
	07-Oct-05		ND (1.0)	ND (1.0) FF	9,340	7.40
	16-Dec-05		ND (1.0)	ND (1.0) FF	10,200	7.38
	09-Mar-06		ND (1.0)	ND (1.0) FF	9,650	7.34
MW-31-60	09-Mar-05		2700	2550	2,530	7.93
	07-Apr-05		1910	2030	---	---
	13-Jun-05		1790	1810	2,960	7.60
	06-Oct-05		1430	1470 FF	2,600	7.80
	13-Dec-05		1300	1250 FF	2,570	7.60
	15-Mar-06		1020	1010 FF	2,580	7.62
	15-Mar-06	FD	1000	1010 FF	2,560	7.64
MW-31-135	10-Mar-05		422	403	10,900	8.09
	13-Jun-05		318	344	11,500	7.94
	13-Jun-05	FD	318	338	11,400	8.07
	06-Oct-05		271	251 FF	9,400	7.98
	14-Dec-05		221	198 FF	9,240	7.62
	15-Mar-06		173	186 FF	11,000	7.91
MW-32-20	09-Mar-05		ND (2.0)	ND (1.0)	22,100	7.09
	04-Apr-05		ND (1.0)	ND (1.0)	---	---
	09-May-05		ND (1.0)	ND (1.0)	---	---
	17-Jun-05		ND (1.0)	ND (1.0)	15,800	6.91
	04-Oct-05		ND (2.0)	ND (1.0) JFF	44,100	6.90

TABLE 3

Groundwater COC Sampling Results March 2005 through March 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)	pH
MW-32-20	16-Dec-05		ND (2.0)	ND (1.0) FF	39,400	6.86
	10-Mar-06		ND (2.0)	ND (1.0) FF	36,500	6.92
MW-32-35	09-Mar-05		ND (1.0)	ND (1.0)	6,460	7.42
	04-Apr-05		ND (1.0)	ND (1.0)	---	---
	09-May-05		ND (1.0)	ND (1.0)	---	---
	17-Jun-05		ND (1.0)	ND (1.0)	12,200	7.19
	04-Oct-05		ND (1.0)	ND (1.0) FF	13,100	7.29
	16-Dec-05		ND (1.0)	ND (1.0) FF	12,600	7.19
	10-Mar-06		ND (2.0)	ND (1.0) FF	14,200	7.26
MW-33-40	09-Mar-05		ND (1.0)	ND (1.0)	5,530	8.23
	04-Apr-05		ND (0.2)	ND (1.0)	---	---
	05-May-05		ND (0.2)	ND (1.0)	---	---
	17-Jun-05		ND (0.2)	ND (1.0)	23300 R	7.91
	07-Oct-05		0.68	ND (1.0) FF	5,480	8.19
	12-Dec-05		ND (1.0)	1.70 FF	9,380	7.78
	09-Mar-06		ND (0.2)	ND (1.0)	5,560	8.01
MW-33-90	09-Mar-05		18.6	18.2	8,090	7.80
	22-Mar-05		18.9	19.2	---	---
	04-Apr-05		21.3	17.2	---	---
	19-Apr-05		20.3	17.9	---	---
	19-Apr-05	FD	20.0	18.2	---	---
	05-May-05		17.4	16.8	---	---
	18-May-05		15.5	16.3	---	---
	01-Jun-05		17.8	14.0	---	---
	01-Jun-05	FD	16.0	12.7	---	---
	16-Jun-05		15.0	14.2	9,540	8.06
	16-Jun-05	FD	15.7 J	13.4	9,580	8.01
	20-Jul-05		16.1	17.3 FF	---	---
	20-Jul-05	FD	16.5	17.3 FF	---	---
	06-Oct-05		15.5	13.0 FF	8,300	7.72
	13-Dec-05		16.4	21.8 JFF	8,540	7.50
	13-Dec-05	FD	16.5	14.0 JFF	8,520	7.55
	08-Mar-06		16.7	14.3 FF	10,000	7.76
MW-33-150	17-Jun-05		3.10 J	6.40	17,700	7.55
	20-Jul-05		5.20	5.60 FF	---	---
	17-Aug-05		4.00	6.10 FF	---	---
	09-Sep-05		3.90	2.80 FF	---	---
	06-Oct-05		4.50	3.90 FF	17,600	7.77
	06-Oct-05	FD	5.30	4.90 FF	17,800	7.79
	02-Nov-05		5.50	4.70 FF	---	---
	12-Dec-05		6.60	5.70 FF	15,600	7.60
	10-Jan-06		6.40	5.00 FF	---	---
	07-Feb-06		4.30 J	6.40 FF	---	---
	08-Mar-06		4.20	3.20 FF	18,300	7.74
MW-33-210	16-Jun-05		5.10 J	1.70 J	21,600	7.89

TABLE 3

Groundwater COC Sampling Results March 2005 through March 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)	pH
MW-33-210	20-Jul-05		5.60	6.70 FF	---	---
	17-Aug-05		2.50	8.00 FF	---	---
	06-Sep-05		3.50	2.90 FF	---	---
	06-Oct-05		4.00	4.20 FF	20,800	7.58
	02-Nov-05		6.50	5.40 FF	---	---
	12-Dec-05		6.90	5.60 FF	18,000	7.53
	10-Jan-06		7.60	5.20 FF	---	---
	07-Feb-06		9.00	7.20 FF	---	---
	06-Mar-06		10.7	6.50 FF	21,500	7.50
MW-34-55	10-Mar-05		ND (1.0)	ND (1.0)	9,140	7.80
	05-Apr-05		ND (1.0)	ND (1.0)	---	---
	05-May-05		ND (1.0)	ND (1.0)	---	---
	15-Jul-05		ND (1.0)	ND (1.3) FF	8,690	7.58
	05-Oct-05		ND (1.0)	ND (1.0) FF	7,600	7.36
	14-Dec-05		ND (1.0)	ND (1.0) FF	7,620	7.39
	08-Mar-06		ND (1.0)	ND (1.0) FF	8,500	7.62
MW-34-80	01-Mar-05		ND (1.0)	ND (1.0) J	---	---
	08-Mar-05		ND (1.0) J	ND (1.0)	14,200	7.73
	22-Mar-05		ND (1.0)	ND (1.0)	---	---
	29-Mar-05		ND (1.0)	ND (1.0)	---	---
	05-Apr-05		ND (1.0)	ND (1.0)	---	---
	12-Apr-05		ND (1.0)	ND (1.0)	---	---
	19-Apr-05		ND (1.0)	ND (1.0)	---	---
	26-Apr-05		ND (1.0)	ND (1.0)	---	---
	04-May-05		ND (1.0)	ND (1.0)	---	---
	18-May-05		ND (1.0)	ND (1.0)	---	---
	01-Jun-05		ND (1.0)	ND (1.0)	---	---
	30-Jun-05		ND (1.0)	ND (1.0)	15,000	7.52
	14-Jul-05		ND (1.0)	2.00 FF	---	---
	15-Aug-05		ND (1.0)	2.40 FF	---	---
	07-Sep-05		ND (1.0)	ND (1.0) FF	---	---
	05-Oct-05		ND (1.0)	ND (1.0) FF	15,000	7.16
	03-Nov-05		ND (1.0)	ND (1.0) FF	---	---
	14-Dec-05		ND (1.0)	ND (1.0) FF	12,500	7.24
	11-Jan-06		ND (1.0)	ND (1.0) FF	---	---
	08-Feb-06		ND (1.0)	ND (1.0) FF	---	---
	09-Mar-06		ND (1.0)	ND (1.0) FF	12,400	7.26
MW-34-100	01-Mar-05		402	374	---	---
	01-Mar-05	FD	411	332	---	---
	08-Mar-05		425 J	490	---	---
	23-Mar-05		421	548	---	---
	29-Mar-05		73.9 J	110	---	---
	29-Mar-05	FD	56.7 J	106	---	---
	05-Apr-05		452	488	16,100	---
	05-Apr-05	FD	455	454	15,900	---
	12-Apr-05		482	502	---	---

TABLE 3

Groundwater COC Sampling Results March 2005 through March 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)	pH
MW-34-100	12-Apr-05	FD	499	562	---	---
	19-Apr-05		473	599	---	---
	26-Apr-05		476	573	---	---
	26-Apr-05	FD	480	602	---	---
	04-May-05		491	530	---	---
	10-May-05		513	492	---	---
	10-May-05	FD	501	552	---	---
	18-May-05		524	564	---	---
	25-May-05		559	478	---	---
	01-Jun-05		527	609	---	---
	08-Jun-05		552	583	---	---
	21-Jun-05		560	477	17,300	7.97
	21-Jun-05	FD	578	480	18,000	8.00
	07-Jul-05		583	639	---	---
	14-Jul-05		617	701 FF	---	---
	27-Jul-05		597	504 FF	---	---
	10-Aug-05		574	589 FF	---	---
	10-Aug-05	FD	571	597 FF	---	---
	15-Aug-05		633	660 FF	---	---
	31-Aug-05		649	693 FF	---	---
	31-Aug-05	FD	658	604 FF	---	---
	07-Sep-05		673	868 FF	---	---
	20-Sep-05		675	891 FF	---	---
	05-Oct-05		732	732 FF	17,400	7.46
	05-Oct-05	FD	708	703 FF	16,900	7.39
	25-Oct-05		752	628 FF	---	---
	25-Oct-05	FD	752	650 FF	---	---
	03-Nov-05		748 J	897 FF	---	---
	16-Nov-05		759	762 FF	---	---
	16-Nov-05	FD	763	725 FF	---	---
	30-Nov-05		791	797 FF	---	---
	30-Nov-05	FD	802	721 FF	---	---
	14-Dec-05		808	751 FF	15,000	7.52
	14-Dec-05	FD	811	791 FF	15,000	7.50
	28-Dec-05		804	824 FF	---	---
	12-Jan-06		837	771 FF	---	---
	12-Jan-06	FD	856	764 FF	---	---
	23-Jan-06		822	716 FF	---	---
	08-Feb-06		797	706 FF	---	---
	08-Feb-06	FD	785	708 FF	---	---
	22-Feb-06		752	831 FF	---	---
	22-Feb-06	FD	748	846 FF	---	---
	08-Mar-06		800	857 FF	17,900	7.59
	08-Mar-06	FD	801	773 FF	17,900	7.65
	23-Mar-06		830	851 FF	---	---
	23-Mar-06	FD	828	855 FF	---	---

TABLE 3

Groundwater COC Sampling Results March 2005 through March 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)	pH
MW-35-60	15-Mar-05		33.8	37.5	6,280	7.64
	13-Jun-05		33.6	34.1	7,170	7.54
	07-Oct-05		32.5	28.0 FF	6,590	7.57
	07-Oct-05	FD	35.1 J	32.0 FF	6,510	7.52
	14-Dec-05		32.5	32.5 FF	6,350	7.42
	14-Dec-05	FD	33.3	28.6 FF	6,430	7.41
	14-Mar-06		31.6	24.3 FF	7,700	7.53
MW-35-135	15-Mar-05		23.0	21.4	9,960	7.80
	13-Jun-05		17.6	17.6	12,600	7.64
	07-Oct-05		21.2	17.8 FF	9,460	7.72
	14-Dec-05		25.7	22.8 FF	9,550	7.54
	10-Mar-06		28.0	24.0 FF	10,800	7.67
	10-Mar-06	FD	26.5	25.7 FF	10,700	7.68
MW-36-20	09-Mar-05		ND (2.0)	ND (1.0)	24,400	7.43
	05-Apr-05		ND (1.0)	ND (1.0)	---	---
	03-May-05		ND (1.0)	ND (1.0)	---	---
	03-Oct-05		ND (1.0)	ND (1.0) FF	16,300	7.35
	15-Dec-05		ND (2.0)	ND (1.0) FF	3260 R	7.14
	07-Mar-06		ND (1.0)	ND (1.0) FF	15,100	7.58
MW-36-40	08-Mar-05		ND (1.0)	ND (1.0)	12,400	7.55
	05-Apr-05		ND (1.0)	ND (1.0)	---	---
	05-May-05		ND (1.0)	ND (1.0)	---	---
	03-Oct-05		ND (1.0)	ND (1.0) FF	14,800	7.28
	15-Dec-05		ND (1.0)	ND (1.0) FF	12,300	7.38
	07-Mar-06		ND (1.0)	ND (1.0) FF	13,800	7.51
MW-36-50	08-Mar-05		ND (1.0)	ND (1.0)	9,430	7.39
	05-Apr-05		ND (1.0)	ND (1.0)	---	---
	05-May-05		ND (1.0)	ND (1.0)	---	---
	03-Oct-05		ND (1.0)	ND (1.0) FF	8,090	7.34
	15-Dec-05		ND (1.0)	ND (1.0) FF	11,000	7.28
	07-Mar-06		ND (1.0)	ND (1.0) FF	7,850	7.63
	07-Mar-06	FD	ND (1.0)	ND (1.0) FF	7,650	7.46
MW-36-70	08-Mar-05		ND (1.0)	ND (1.0)	10,400	7.44
	05-Apr-05		ND (1.0)	ND (1.0)	---	---
	03-May-05		ND (1.0)	ND (1.0)	---	---
	03-Oct-05		ND (1.0)	ND (1.0) FF	8,540	7.30
	15-Dec-05		ND (1.0)	ND (1.0) FF	8,220	7.40
	10-Feb-06		ND (10)	ND (1.0) FF	---	---
	07-Mar-06		ND (1.0)	ND (1.0) FF	9,120	7.55
MW-36-90	09-Mar-05		1480	1380	15,800	7.55
	05-Apr-05		1040	946	---	---
	03-May-05		705	623	---	---
	25-Jul-05		344	343 FF	---	---
	17-Aug-05		346	336 FF	---	---
	08-Sep-05		267	301 FF	---	---

TABLE 3

Groundwater COC Sampling Results March 2005 through March 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)	pH
MW-36-90	03-Oct-05		302	286 FF	16,800	7.28
	02-Nov-05		256	247 FF	---	---
	15-Dec-05		240	219 FF	13,900	7.27
	12-Jan-06		245	223 FF	---	---
	10-Feb-06		71.8	71.4 FF	---	---
	07-Mar-06		33.0	27.5 FF	11,800	7.49
MW-36-100	09-Mar-05		1380	1200	16,600	7.74
	22-Mar-05		1250	1180	---	---
	22-Mar-05	FD	1230	1160	---	---
	04-Apr-05		1110	981	---	---
	20-Apr-05		825	844	---	---
	03-May-05		705	679	---	---
	18-May-05		617	796 J	---	---
	18-May-05	FD	620	624 J	---	---
	02-Jun-05		518	441	---	---
	19-Jul-05		398	635 FF	---	---
	15-Aug-05		391	410 FF	---	---
	15-Aug-05	FD	390	392 FF	---	---
	08-Sep-05		396 J	380 FF	---	---
	08-Sep-05	FD	397	454 FF	---	---
	05-Oct-05		383	370 FF	15,500	7.18
	03-Nov-05		315	368 FF	---	---
	13-Dec-05		306	333 FF	15,800	7.25
	12-Jan-06		287	288 FF	---	---
	09-Feb-06		307	288 FF	---	---
	13-Mar-06		540	531 FF	18,100	7.36
MW-37D	11-Mar-05		1610	1530	13,800	7.72
	15-Jun-05		1390	1540	13,200	8.20
	04-Oct-05		1800	1970 FF	14,900	7.77
	14-Dec-05		1680	1610 FF	13,300	7.67
	13-Mar-06		1950	1860 FF	16,000	7.64
MW-37S	11-Mar-05		7.40	5.40	4,260	7.84
	07-Apr-05		5.90	5.40	---	---
	15-Jun-05		2.10	2.60	3,700	8.19
	04-Oct-05		7.00	6.60 FF	4,210	7.98
	04-Oct-05	FD	7.00	6.50 FF	4,180	7.90
	14-Dec-05		8.00	7.10 FF	4,220	7.60
	14-Dec-05	FD	7.60	7.00 FF	4,230	7.62
	13-Mar-06		7.70	7.00 FF	4,280	7.70
MW-38D	11-Mar-05		328	323	20,000	8.01
	17-Jun-05		202	175	4980 R	8.50
	07-Oct-05		227	227 FF	21,500	7.95
	10-Mar-06		111	106 FF	23,500	7.85
MW-38S	11-Mar-05		919	938	3,840	7.80
	17-Jun-05		807	730	3,790	7.72

TABLE 3

Groundwater COC Sampling Results March 2005 through March 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)	pH
MW-38S	07-Oct-05		776	825 FF	3,430	7.47
	10-Mar-06		824	788 FF	3,700	7.53
MW-39-40	09-Mar-05		ND (1.0)	ND (1.0)	6,040	7.62
	05-Apr-05		ND (1.0)	ND (1.0)	---	---
	05-May-05		ND (0.2)	ND (1.0)	---	---
	16-Jun-05		ND (0.2)	ND (1.0)	6,430	8.03
	04-Oct-05		ND (0.2)	ND (1.0) FF	5,640	7.58
	16-Dec-05		ND (0.2)	ND (1.0) FF	6,010	7.45
	07-Mar-06		ND (1.0)	ND (1.0) FF	7,780	7.55
MW-39-50	09-Mar-05		422	372	12,100	7.51
	06-Apr-05		282 J	237	---	---
	03-May-05		206	204	---	---
	16-Jun-05		66.2	55.4	10,700	7.82
	04-Oct-05		ND (10)	4.70 FF	12,000	7.52
	12-Jan-06		ND (10)	ND (1.0) FF	---	---
	08-Mar-06		ND (1.0)	ND (1.0) FF	12,200	7.49
MW-39-60	09-Mar-05		1450	1300	11,200	7.45
	06-Apr-05		914	1080	---	---
	06-Apr-05	FD	914	907	---	---
	05-May-05		450	455	---	---
	05-May-05	FD	460	509	---	---
	16-Jun-05		213	198	13,100	7.72
	04-Oct-05		72.3	79.6 JFF	13,200	7.37
	16-Dec-05		20.4	20.4 FF	14,400	7.16
	08-Mar-06		7.10	2.70 FF	15,700	7.42
	08-Mar-06	FD	6.90	2.40 FF	15,300	7.47
MW-39-70	09-Mar-05		4310	4010 J	10,600	7.60
	09-Mar-05	FD	4340	5310 J	10,500	7.56
	05-Apr-05		2280	2080	---	---
	05-May-05		1320	1270	---	---
	16-Jun-05		799	576	11,700	7.65
	04-Oct-05		840	754 FF	11,900	7.34
	16-Dec-05		1240	1080 FF	12,800	7.24
	10-Feb-06		338	340 FF	---	---
	08-Mar-06		200	169 FF	12,300	7.46
MW-39-80	09-Mar-05		7460	7240	12,400	7.56
	06-Apr-05		4820	4570	---	---
	03-May-05		3430	3510	---	---
	16-Jun-05		2220	1930	15,700	7.59
	25-Jul-05		2060	1990 FF	---	---
	17-Aug-05		2370	2460 FF	---	---
	06-Sep-05		2990	4880 FF	---	---
	04-Oct-05		3000	2770 FF	15,000	7.38
	02-Nov-05		3200	3020 FF	---	---
	15-Dec-05		2740	2570 FF	12,600	7.34

TABLE 3

Groundwater COC Sampling Results March 2005 through March 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)	pH
MW-39-80	12-Jan-06		2280	2060 FF	---	---
	10-Feb-06		1750	1610 FF	---	---
	08-Mar-06		1420	1400 FF	15,900	7.48
MW-39-100	10-Mar-05		8940	8160	15,500	7.64
	06-Apr-05		8220	8230	---	---
	09-May-05		7980	8490	---	---
	09-May-05	FD	7720	8250	---	---
	17-Jun-05		6980	6030	18,700	7.41
	19-Jul-05		5500	5490 FF	---	---
	19-Jul-05	FD	5450	5450 FF	---	---
	17-Aug-05		4230	4050 FF	---	---
	06-Sep-05		4540	6480 FF	---	---
	04-Oct-05		4010	3950 FF	16,300	7.40
	02-Nov-05		3580	3480 FF	---	---
	02-Nov-05	FD	3650	3410 FF	---	---
	13-Dec-05		3640	3440 FF	16,700	7.22
	12-Jan-06		4720	4280 FF	---	---
	09-Feb-06		4500	4310 FF	---	---
	13-Mar-06		4070	4640 FF	20,700	7.20
MW-40D	10-Mar-05		58.6	63.7	15,200	7.82
	16-Jun-05		7.60	6.40	14,100	7.96
	05-Oct-05		57.4	67.0 FF	16,700	7.54
	13-Dec-05		83.5	78.1 FF	14,600	7.43
	08-Mar-06		89.9	76.7 FF	17,200	7.59
MW-40S	10-Mar-05		5.50	5.50	1,910	7.61
	07-Apr-05		4.60	4.40	---	---
	16-Jun-05		6.30	5.30	1,870	8.08
	05-Oct-05		4.90	4.40 FF	1,890	7.65
	13-Dec-05		5.10 J	5.10 FF	1,850	7.54
	08-Mar-06		5.20	3.90 FF	1,960	7.69
MW-41D	11-Mar-05		ND (1.0)	ND (1.0)	20,700	7.90
	14-Jun-05		ND (1.0)	2.80	23,000	7.73
	05-Oct-05		ND (1.0)	ND (1.0) FF	19,200	7.71
	16-Dec-05		ND (1.0)	ND (1.0) FF	19,600	7.59
	15-Mar-06		ND (1.0)	ND (1.0) FF	23,500	7.84
MW-41M	11-Mar-05		8.10	4.90	14,500	8.04
	14-Jun-05		4.80	5.40 J	12,600	7.59
	14-Jun-05	FD	4.60	7.90 J	12,700	7.76
	05-Oct-05		5.40	5.00 FF	13,200	7.69
	16-Dec-05		8.90	6.50 FF	15,900	7.64
	13-Mar-06		8.50	7.40 FF	16,300	7.64
MW-41S	10-Mar-05		16.8	15.6	4,830	8.12
	14-Jun-05		11.3	19.0	4,460	7.90
	05-Oct-05		17.0	17.7 FF	4,520	7.81
	05-Oct-05	FD	17.3	15.3 FF	4,470	7.87

TABLE 3

Groundwater COC Sampling Results March 2005 through March 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)	pH
MW-41S	16-Dec-05		18.2	15.8 FF	4,620	7.74
	16-Dec-05	FD	18.4	16.1 FF	4,650	7.77
	13-Mar-06		17.6	18.0 FF	5,170	7.82
MW-42-30	07-Oct-05		ND (1.0)	ND (1.0) FF	17,200	7.26
	15-Dec-05		ND (1.0)	ND (1.0) FF	17,800	7.14
	07-Mar-06		ND (1.0)	ND (1.0) FF	11,100	7.42
MW-42-55	07-Oct-05		ND (1.0)	ND (1.0) FF	19,500	7.25
	15-Dec-05		ND (1.0)	ND (1.0) FF	12,100	7.28
	07-Mar-06		ND (1.0)	ND (1.0) FF	15,600	7.36
MW-42-65	07-Oct-05		ND (1.0)	ND (1.0) FF	20,000	6.99
	15-Dec-05		ND (1.0)	ND (1.0) FF	16,100	7.10
	07-Mar-06		ND (1.0)	ND (1.0) FF	18,000	7.12
MW-43-25	20-Jun-05		ND (0.2)	ND (1.0)	1,740	7.75
	04-Oct-05		ND (0.2)	ND (1.0) FF	1,170	7.32
	16-Dec-05		ND (0.2)	ND (1.0) FF	1,340	7.20
	10-Mar-06		ND (0.2)	ND (1.0) FF	1,240	7.23
MW-43-75	20-Jun-05		ND (1.0)	ND (1.0)	14,700	7.84
	26-Jul-05		ND (1.0)	ND (1.0) FF	---	---
	16-Aug-05		ND (1.0)	5.40 FF	---	---
	08-Sep-05		ND (1.0)	ND (1.0) FF	---	---
	04-Oct-05		ND (1.0)	ND (1.0) JFF	15,000	7.46
	03-Nov-05		ND (2.0)	ND (1.0) FF	---	---
	16-Dec-05		ND (1.0)	ND (1.0) FF	13,100	7.37
	11-Jan-06		ND (1.0)	ND (1.0) FF	---	---
	10-Feb-06		ND (1.0)	ND (1.0) FF	---	---
	10-Mar-06		ND (1.0)	ND (1.0) FF	15,900	7.36
MW-43-90	20-Jun-05		ND (1.0)	ND (1.0)	25,100	7.38
	20-Jun-05	FD	ND (1.0)	ND (1.0)	24,400	7.37
	26-Jul-05		ND (2.0)	ND (1.6) FF	---	---
	16-Aug-05		ND (2.0)	ND (5.2) FF	---	---
	08-Sep-05		ND (1.0)	ND (1.0) FF	---	---
	04-Oct-05		ND (1.0)	ND (1.0) FF	22,000	6.95
	03-Nov-05		ND (2.0)	ND (1.0) FF	---	---
	16-Dec-05		ND (1.0)	ND (1.0) FF	19,900	6.93
	11-Jan-06		ND (1.0)	ND (1.0) FF	---	---
	10-Feb-06		ND (1.0)	ND (1.0) FF	---	---
	10-Mar-06		ND (2.0)	ND (1.0) FF	24,300	7.01
OW-3D	06-Oct-05		0.30	ND (1.0) FF	6,900	8.19
	09-Mar-06		2.50	2.20 FF	8,240	7.82
OW-3M	06-Oct-05		16.7	14.3 FF	4,680	8.12
	09-Mar-06		17.0	15.7 FF	5,420	7.77
OW-3S	06-Oct-05		19.3	16.6 FF	1,740	7.79
	09-Mar-06		21.2	18.2 FF	1,700	7.53
PE-1	03-Oct-05		ND (1.0)	ND (1.0) FF	11,800	7.14

TABLE 3

Groundwater COC Sampling Results March 2005 through March 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)	pH
PE-1	13-Dec-05	ND (1.0)	ND (1.0)	11,800	7.21
	08-Feb-06	136	136	13,200	7.57
	08-Mar-06	136	125 FF	12,000	7.52
PGE-6	12-Oct-05	1630	2070 FF	3,730	7.65
PGE-7	13-Oct-05	ND (1.0)	ND (1.0) FF	10,800	9.44
PGE-8	13-Oct-05	ND (1.0) J	2.10 FF	16,900	8.52
Park Moabi	11-Mar-05	0.35	ND (1.0)	1,260	8.03
	15-Jun-05	9.90	8.60	1,200	8.16
	05-Oct-05	9.20	7.60 FF	1,280	7.69
	16-Dec-05	ND (0.2)	ND (1.0) FF	2,100	7.38
	06-Mar-06	9.50	7.80 FF	1,260	7.69
TW-1	11-Oct-05	3990	4340 FF	6,200	7.32
TW-2D	09-Mar-05	5800	5620	9,400	7.87
	15-Jun-05	5050	4780	9,230	7.98
	16-Aug-05	4220	4750 UF	9,230	7.55
	16-Sep-05	3920	3910 UF	9,440	7.70
	05-Oct-05	3960	3790 UF	9,020	7.35
	02-Nov-05	3750	3630 UF	10,300	7.41
	07-Dec-05	3600	3670 UF	8,780	7.40
	18-Jan-06	2180	1980	11,400	7.32
	15-Mar-06	1360	1360 FF	8,960	7.41
TW-2S	11-Mar-05	4400	4240	3,150	7.65
	16-Jun-05	3780	4180	3,120	7.98
	07-Oct-05	3360	3340 FF	2,790	7.72
	15-Mar-06	2720	2870 FF	2,680	7.78
TW-3D	18-Jan-06	4330	4720	8,740	7.49
	08-Feb-06	3250	2880	9,760	7.52
	08-Mar-06	3040	3210 FF	9,640	7.54

TABLE 3

Groundwater COC Sampling Results March 2005 through March 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
+	the reporting limit (RL) for hexavalent chromium is estimated and might be as high as the total chromium RL data
(---)	not collected or not available
FD	field duplicate sample
FF	field filtered
UF	unfiltered

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

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

The following monitoring wells were not sampled during the June 2005 quarterly event due to floodplain inaccessibility: MW-27 cluster, MW-30 cluster, MW-34-55, MW-36 cluster and MW-42 cluster. Monitoring well MW-24BR was not sampled due to problems involving the pump.

Beginning in July 2005, samples analyzed for total chromium by EPA Method 6010B or 6020A were filtered and preserved in the field after sample collection, as per DTSC's June 30, 2005 letter.

Monitoring well MW-24BR was not sampled during the October 2005 monitoring event due to equipment problems.

The analytical results for TW-2D from August through December 2005 were obtained from a sample point (SC-100B) on the influent conveyance system at the IM3 treatment system. The TW-2D results from SC-100B are presented here on a monthly basis, for samples that were collected closest in time to the GMP monthly events.

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.

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 4

Surface Water COC Sampling Results March 2005 through March 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)	pH
CON	01-Mar-05	ND (0.2)	ND (1.0) J	---	---
	07-Mar-05	ND (0.2)	ND (1.0)	1,040	8.34
	06-Apr-05	ND (0.2)	ND (1.0)	---	---
	04-May-05	ND (0.2)	ND (1.0)	---	---
	14-Jun-05	ND (0.2)	ND (1.0)	990	8.16
	13-Jul-05	ND (0.2)	ND (1.0)	---	---
	18-Aug-05	ND (0.2)	ND (1.0)	---	---
	07-Sep-05	ND (0.2)	ND (1.0)	---	---
	05-Oct-05	ND (0.2)	ND (1.0)	976	8.07
	01-Nov-05	ND (0.2)	ND (1.0)	---	---
	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
I-3	08-Mar-05	ND (0.2)	ND (1.0)	1,050	8.31
	07-Apr-05	ND (0.2)	ND (1.0)	---	---
	04-May-05	ND (0.2)	ND (1.0)	---	---
	14-Jun-05	ND (0.2)	ND (1.0)	981	8.11
	13-Jul-05	ND (0.2)	ND (1.0)	---	---
	18-Aug-05	ND (0.2)	ND (1.0)	---	---
	07-Sep-05	ND (0.2)	ND (1.0)	---	---
	05-Oct-05	ND (0.2)	ND (1.0)	968	8.08
	01-Nov-05	ND (0.2)	ND (1.0)	---	---
	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
NR-1	08-Mar-05	ND (0.2)	ND (1.0)	1,030	8.35
	06-Apr-05	ND (0.2)	ND (1.0)	---	---
	04-May-05	ND (0.2)	ND (1.0)	---	---
	14-Jun-05	ND (0.2)	ND (1.0)	987	8.04
	13-Jul-05	ND (0.2)	ND (1.0)	---	---
	18-Aug-05	ND (0.2)	ND (1.0)	---	---
	07-Sep-05	ND (0.2)	ND (1.0)	---	---
	05-Oct-05	ND (0.2)	ND (1.0)	972	8.10
	01-Nov-05	ND (0.2)	ND (1.0)	---	---
	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
NR-2	08-Mar-05	ND (0.2)	ND (1.0)	1,020	8.34
	06-Apr-05	ND (0.2)	ND (1.0)	---	---
	04-May-05	ND (0.2)	ND (1.0)	---	---
	14-Jun-05	ND (0.2)	ND (1.0)	961	8.22
	14-Jul-05	ND (0.2)	ND (1.0)	---	---
	18-Aug-05	ND (0.2)	ND (1.0)	---	---

TABLE 4

Surface Water COC Sampling Results March 2005 through March 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)	pH
NR-2	07-Sep-05	ND (0.2)	ND (1.0)	---	---
	05-Oct-05	ND (0.2)	ND (1.0)	971	8.12
	01-Nov-05	ND (0.2)	ND (1.0)	---	---
	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
NR-3	08-Mar-05	ND (0.2)	ND (1.0)	1,030	8.38
	06-Apr-05	ND (0.2)	ND (1.0)	---	---
	04-May-05	ND (0.2)	ND (1.0)	---	---
	14-Jun-05	ND (0.2)	ND (1.0)	996	8.03
	14-Jul-05	ND (0.2)	ND (1.0)	---	---
	18-Aug-05	ND (0.2)	ND (1.0)	---	---
	07-Sep-05	ND (0.2)	ND (1.0)	---	---
	05-Oct-05	ND (0.2)	ND (1.0)	968	8.09
	01-Nov-05	ND (0.2)	ND (1.0)	---	---
	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
R-22	01-Mar-05	ND (0.2)	ND (1.0) J	---	---
	07-Mar-05	ND (0.2)	ND (1.0)	1,010	8.38
	06-Apr-05	ND (0.2)	ND (1.0)	---	---
	04-May-05	ND (0.2)	ND (1.0)	---	---
	14-Jun-05	ND (0.2)	ND (1.0)	987	8.09
	13-Jul-05	ND (0.2)	ND (1.0)	---	---
	18-Aug-05	ND (0.2)	ND (1.0)	---	---
	07-Sep-05	ND (0.2)	ND (1.0)	---	---
	05-Oct-05	ND (0.2)	ND (1.0)	981	8.07
	01-Nov-05	ND (0.2)	ND (1.0)	---	---
	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
R-27	01-Mar-05	ND (0.2)	ND (1.0) J	---	---
	07-Mar-05	ND (0.2)	ND (1.0)	1,010	8.40
	06-Apr-05	ND (0.2)	ND (1.0)	---	---
	04-May-05	ND (0.2)	ND (1.0)	---	---
	14-Jun-05	ND (0.2)	ND (1.0)	989	8.10
	13-Jul-05	ND (0.2)	ND (1.0)	---	---
	18-Aug-05	ND (0.2)	ND (1.0)	---	---
	07-Sep-05	ND (0.2)	ND (1.0)	---	---
	05-Oct-05	ND (0.2)	ND (1.0)	969	8.09
	01-Nov-05	ND (0.2)	ND (1.0)	---	---
	16-Dec-05	ND (0.2)	ND (1.0)	1,010	8.11
	12-Jan-06	ND (0.2)	ND (1.0)	---	---

TABLE 4

Surface Water COC Sampling Results March 2005 through March 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)	pH
R-27	08-Feb-06	ND (0.2)	ND (1.0)	---	---
	06-Mar-06	ND (0.2)	ND (1.0)	1,010	8.09
R-28	08-Mar-05	ND (0.2)	ND (1.0)	1,020	8.34
	06-Apr-05	ND (0.2)	ND (1.0)	---	---
	04-May-05	ND (0.2)	ND (1.0)	---	---
	14-Jun-05	ND (0.2)	ND (1.0)	988	8.11
	14-Jul-05	ND (0.2)	ND (1.0)	---	---
	18-Aug-05	ND (0.2)	ND (1.0)	---	---
	07-Sep-05	ND (0.2)	ND (1.0)	---	---
	05-Oct-05	ND (0.2) J	ND (1.0)	970	8.08
	01-Nov-05	ND (0.2)	ND (1.0)	---	---
	16-Dec-05	ND (0.2)	ND (1.0)	1,010	8.16
	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
RRB	07-Apr-05	ND (0.2)	ND (1.0)	---	---
	04-May-05	ND (0.2)	ND (1.0)	---	---
	14-Jun-05	ND (0.2)	ND (1.0)	986	8.05
	14-Jul-05	ND (0.2)	ND (1.0)	---	---
	18-Aug-05	ND (0.2)	ND (1.0)	---	---
	07-Sep-05	ND (0.2)	ND (1.0)	---	---
	05-Oct-05	ND (0.2)	ND (1.0)	998	7.88
	01-Nov-05	ND (0.2)	ND (1.0)	---	---
	08-Feb-06	ND (0.2)	ND (1.0)	---	---
	06-Mar-06	ND (0.2)	ND (1.0)	1,040	8.05

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 decision-making.
(---) data not collected or not available
FD field duplicate sample

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 December 2005 due to the location being dry

TABLE 5

In-Channel Surface Water COC and Additional Parameters Sampling Results July 2005 through March 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)	pH	Hardness mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
C-CON-S	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.11	344	635	ND (10)
C-CON-M	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.09	344	640	ND (10)
C-CON-D	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.10	324	655	ND (10)
C-CON-S	22-Sep-05	ND (0.2)	ND (1.0)	1,100	8.13	328	710	ND (10)
C-CON-M	22-Sep-05	ND (0.2)	ND (1.0)	1,110	8.10	328	730	ND (10)
C-CON-D	22-Sep-05	ND (0.2)	ND (1.0)	1,110	8.06	328	700	ND (10)
C-CON-S	08-Nov-05	ND (0.2)	ND (1.0)	---	---	328	---	---
C-CON-M	08-Nov-05	ND (0.2)	ND (1.0)	---	---	330	---	---
C-CON-D	08-Nov-05	ND (0.2)	ND (1.0)	---	---	320	---	---
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	ND (0.2)	ND (1.0)	---	---	334	---	---
C-CON-M	18-Jan-06	ND (0.2)	ND (1.0)	---	---	328	---	---
C-CON-D	18-Jan-06	ND (0.2)	ND (1.0)	---	---	330	---	---
C-CON-S	22-Mar-06	ND (0.2)	ND (1.0)	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-I-3-S	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.16	348	615	ND (10)
C-I-3-M	13-Jul-05	ND (0.2)	ND (1.0)	1,100	8.11	352	635	ND (10)
C-I-3-D	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.15	332	620	ND (10)
C-I-3-S	21-Sep-05	ND (0.2)	ND (1.0)	1,110	8.16	324	750	ND (10)
C-I-3-M	21-Sep-05	ND (0.2)	ND (1.0)	1,110	8.24	316	725	ND (10)
C-I-3-D	21-Sep-05	ND (0.2)	ND (1.0)	1,110	8.10	324	730	ND (10)
C-I-3-S	08-Nov-05	ND (0.2)	ND (1.0)	---	---	328	---	---

TABLE 5

In-Channel Surface Water COC and Additional Parameters Sampling Results July 2005 through March 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)	pH	Hardness mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
C-I-3-M	08-Nov-05	ND (0.2)	ND (1.0)	---	---	316	---	---
C-I-3-D	08-Nov-05	ND (0.2)	ND (1.0)	---	---	332	---	---
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-MAR-M	21-Sep-05	ND (0.2)	ND (1.0)	1,150	8.11	336	740	103
C-MAR-S	09-Nov-05	ND (0.2)	ND (1.0)	---	---	360	---	---
C-MAR-M	09-Nov-05	ND (0.2)	ND (1.0)	---	---	364	---	---
C-MAR-D	09-Nov-05	ND (0.2)	ND (1.0)	---	---	348	---	---
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-NR1-S	13-Jul-05	ND (0.2)	ND (1.0)	1,100	8.19	336	610	ND (10)
C-NR1-M	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.16	348	600	ND (10)
C-NR1-D	13-Jul-05	ND (0.2)	ND (1.0)	1,080	8.18	336	605	ND (10)
C-NR1-S	22-Sep-05	ND (0.2)	ND (1.0)	1,110	8.18	324	725	ND (10)
C-NR1-M	22-Sep-05	ND (0.2)	ND (1.0)	1,100	8.13	324	730	ND (10)
C-NR1-D	22-Sep-05	ND (0.2)	ND (1.0)	1,110	8.13	320	740	ND (10)
C-NR1-S	09-Nov-05	ND (0.2)	ND (1.0)	---	---	300	---	---

TABLE 5

In-Channel Surface Water COC and Additional Parameters Sampling Results July 2005 through March 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)	pH	Hardness mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
C-NR1-M	09-Nov-05	ND (0.2)	ND (1.0)	---	---	320	---	---
C-NR1-D	09-Nov-05	ND (0.2)	ND (1.0)	---	---	324	---	---
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-NR3-S	14-Jul-05	ND (0.2)	ND (1.0)	1,090	8.05	344	695	ND (10)
C-NR3-M	14-Jul-05	ND (0.2)	ND (1.0)	1,090	8.06	352	730	ND (10)
C-NR3-D	14-Jul-05	ND (0.2)	ND (1.0)	1,090	8.07	348	710	ND (10)
C-NR3-S	22-Sep-05	ND (0.2)	ND (1.0)	1,110	8.18	328	735	ND (10)
C-NR3-M	22-Sep-05	ND (0.2)	ND (1.0)	1,110	8.20	324	725	ND (10)
C-NR3-D	22-Sep-05	ND (0.2)	ND (1.0)	1,110	8.17	320	750	ND (10)
C-NR3-S	09-Nov-05	ND (0.2)	ND (1.0)	---	---	328	---	---
C-NR3-M	09-Nov-05	ND (0.2)	ND (1.0)	---	---	308	---	---
C-NR3-D	09-Nov-05	ND (0.2)	ND (1.0)	---	---	324	---	---
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	---	---

TABLE 5

In-Channel Surface Water COC and Additional Parameters Sampling Results July 2005 through March 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)	pH	Hardness mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
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-NR4-S	14-Jul-05	ND (0.2)	ND (1.0)	1,090	8.09	340	715	ND (10)
C-NR4-M	14-Jul-05	ND (0.2)	ND (1.0)	1,080	7.96	344	700	ND (10)
C-NR4-D	14-Jul-05	ND (0.2)	ND (1.0)	1,080	8.07	348	670	ND (10)
C-NR4-S	22-Sep-05	ND (0.2)	ND (1.0)	1,110	8.10	324	735	ND (10)
C-NR4-M	22-Sep-05	ND (0.2)	ND (1.0)	1,110	8.12	324	745	ND (10)
C-NR4-D	22-Sep-05	ND (0.2)	ND (1.0)	1,100	8.11	324	720	ND (10)
C-NR4-S	09-Nov-05	ND (0.2)	ND (1.0)	---	---	328	---	---
C-NR4-M	09-Nov-05	ND (0.2)	ND (1.0)	---	---	324	---	---
C-NR4-D	09-Nov-05	ND (0.2)	ND (1.0)	---	---	336	---	---
C-NR4-S	14-Dec-05	ND (0.2)	ND (1.0)	1,060	8.04	336	715	ND (10)
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-R22-S	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.18	352	630	ND (10)
C-R22-M	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.11	352	610	ND (10)
C-R22-D	13-Jul-05	ND (0.2)	ND (1.0)	1,100	8.17	352	590	ND (10)

TABLE 5

In-Channel Surface Water COC and Additional Parameters Sampling Results July 2005 through March 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)	pH	Hardness mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
C-R22-S	21-Sep-05	ND (0.2)	ND (1.0)	1,110	8.19	336	720	ND (10)
C-R22-M	21-Sep-05	ND (0.2)	ND (1.0)	1,110	8.17	336	735	ND (10)
C-R22-D	21-Sep-05	ND (0.2)	ND (1.0)	1,110	8.17	328	715	ND (10)
C-R22-S	08-Nov-05	ND (0.2)	ND (1.0)	---	---	320	---	---
C-R22-M	08-Nov-05	ND (0.2)	ND (1.0)	---	---	324	---	---
C-R22-D	08-Nov-05	ND (0.2)	ND (1.0)	---	---	330	---	---
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-R27-S	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.14	340	625	ND (10)
C-R27-M	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.15	356	630	ND (10)
C-R27-D	13-Jul-05	ND (0.2)	ND (1.0)	1,100	8.13	348	635	ND (10)
C-R27-S	21-Sep-05	ND (0.2)	ND (1.0)	1,110	8.07	324	745	ND (10)
C-R27-M	21-Sep-05	ND (0.2)	ND (1.0)	1,110	8.22	320	730	ND (10)
C-R27-D	21-Sep-05	ND (0.2)	ND (1.0)	1,100	8.10	320	750	ND (10)
C-R27-S	08-Nov-05	ND (0.2)	ND (1.0)	---	---	332	---	---
C-R27-M	08-Nov-05	ND (0.2)	ND (1.0)	---	---	316	---	---
C-R27-D	08-Nov-05	ND (0.2)	ND (1.0)	---	---	332	---	---
C-R27-S	13-Dec-05	ND (0.2)	ND (1.0)	1,070	8.18	340	715	ND (10)

TABLE 5

In-Channel Surface Water COC and Additional Parameters Sampling Results July 2005 through March 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)	pH	Hardness mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
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-TAZ-S	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.21	328	650	ND (10)
C-TAZ-M	13-Jul-05	ND (0.2)	ND (1.0)	1,080	8.17	348	655	ND (10)
C-TAZ-D	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.18	344	615	ND (10)
C-TAZ-S	21-Sep-05	ND (0.2)	ND (1.0)	1,110	8.12	316	710	ND (10)
C-TAZ-M	21-Sep-05	ND (0.2)	ND (1.0)	1,110	8.06	324	730	ND (10)
C-TAZ-D	21-Sep-05	ND (0.2)	ND (1.0)	1,110	8.13	320	705	ND (10)
C-TAZ-S	08-Nov-05	ND (0.2)	ND (1.0)	---	---	340	---	---
C-TAZ-M	08-Nov-05	ND (0.2)	ND (1.0)	---	---	324	---	---
C-TAZ-D	08-Nov-05	ND (0.2)	ND (1.0)	---	---	320	---	---
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	---	---
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)

TABLE 5

In-Channel Surface Water COC and Additional Parameters Sampling Results July 2005 through March 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 decision-making
(---)	data not collected or not available
FD	field duplicate sample
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.

TABLE 6

Interim Measures Performance Monitoring Analytical Results, March 2004 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Total Dissolved Solids	Oxygen 18	Deuterium	Chloride	Sulfate	Nitrate	Bromide	Calcium	Magnesium	Potassium	Sodium	Boron	Alkalinity
Monitoring Wells														
MW-20-70	03-Mar-04	2300	-6.5	-39.0	890	440	9.7	0.6	230	52	11	480	0.3	75
	03-Mar-04 FD	2300	-6.5	-53.0	890	440	9.7	0.6	220	51	11	460	0.3	72
	11-May-04	2100	-5.5	-53.0	800	450	10	ND (0.5)	210	48	9.7	490	0.4	76
	24-Sep-04	2200	-6.5	-57.0	824	402	9.7	ND (1)	180	58.5	12	430	0.2	74
	16-Dec-04	2080	-7.3	-60.0	753	374	9.68	0.604	177 J	52.5	9.05	410	0.497	70
	10-Mar-05	1940	-7.1	-59.0	740	378	9.98	ND (1)	198	55.4	9.89	431	0.412	81.7
	15-Jun-05	1980	-7	-60.0	749	388	9.79	ND (1)	189	55.4	10.5	433	0.414	73.8
	15-Jun-05 FD	2050	-8.3	-57.0	760	392	9.81	ND (1)	204	60.7	11.4	468	0.445	71.3
	11-Oct-05	1950	-7.2	-57.0	737	359	9.48	0.641	198	49.9	14.6	323	0.402	69.9
	15-Dec-05	1830	-7.1	-49.0	645	326	9.9	ND (1)	138	42.3	14.5	267	0.441	77.8
	10-Mar-06	1940	-7.2	-54.0	679	358	10.5	ND (0.5)	161	48.6	9.22	424	0.427	82.2
MW-20-100	03-Mar-04	3400	-4.2	-38.0	1300	740	9.6	0.7	170	20	11	1100	1	82
	11-May-04	3600	-2.7	-37.0	1300	700	9.6	0.5	150	18	10	1100	1	81
	24-Sep-04	3000	-4.8	-44.0	1180	621	8.85	ND (1)	140	23	13	860	0.8	100
	16-Dec-04	2840	-5	-47.0	1050	562	8.5	0.654	152	23.4	16.6	772	0.971	90
	10-Mar-05	2490	-5.2	-49.0	466	511	9.98	ND (1)	133	19.8	8.98	712	0.859	84.2
	15-Jun-05	2500	-4.7	-46.0	921	506	9.02	ND (1)	137	21.3	9.06	592	0.713	84
	11-Oct-05	2400	-5.3	-48.0	887	484	8.87	0.731	170	23.7	15.2	500	0.718	82.3
	15-Dec-05	2340	-5.4	-40.0	813	404	9.65	ND (1)	136	21.4	14.8	406	0.709	82.7
	10-Mar-06	2500	-5.6	-50.3	861	475	9.94	ND (0.5)	171	27	7.75	597	0.803	92.5
MW-20-130	03-Mar-04	11000	-6.6	-60.0	6200	960	6.2	ND (2.5)	400	19	35	3500	1.7	45
	11-May-04	8300	-5	-49.0	3300	1000	9.8	ND (0.5)	280	14	26	2500	1.7	62
	24-Sep-04	7800	-4.4	-45.0	7240	2280	9.8	ND (4)	240	15	33	2400	1.9	66
	27-Jan-05	7350	-5.7	-48.0	3790	1140	10.4	3.16	313	16.1	43.5	2260	2.03	66
	09-Mar-05	5520	-5.8	-56.0	3120	1080	10.9	ND (1)	219	12.1	24.7	2250	1.9	68.9
	09-Mar-05 FD	6200	-5.4	-51.0	3080	1080	10.9	ND (1)	231	12.8	25.4	2390	1.99	68.9
	15-Jun-05	7790	-5	-48.0	3410	1230	11.1	ND (1)	352	23.2	31.3	2980	2.75	68.7
	07-Oct-05	7330	-5	-47.0	3010	1210	10.9	1.04 J	349	13.9	38.4	2070	2.41	72.4
	16-Dec-05	7860	-5.8	-43.0	3260	1000	10.7	ND (2.5)	324	16.3	44.4	1780	1.98	63.2
	10-Mar-06	8610	-5.5	-48.8	3370	1250	10.6	ND (0.5)	312	18.9	27.7	2730	2.03	74.5
MW-25	03-Mar-04	970	-7.7	-56.0	300	220	4.2	ND (0.5)	92	18	7.8	230	0.4	140

TABLE 6

Interim Measures Performance Monitoring Analytical Results, March 2004 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Total Dissolved Solids	Oxygen 18	Deuterium	Chloride	Sulfate	Nitrate	Bromide	Calcium	Magnesium	Potassium	Sodium	Boron	Alkalinity
Monitoring Wells														
MW-25	14-May-04	1000	-8.9	-59.0	310	210	4.2	ND (0.5)	89	19	8	230	0.4	130
	09-Jun-04	---	---	---	---	---	---	---	108	17.1	---	---	0.376	---
	22-Sep-04	1000	-7.6	-58.0	296	196	3.93	0.42	81	16.6	7.4	230	ND (0.2)	140
	09-Mar-05	877	-8.4	-62.0	247	169	3.64	ND (0.5)	77.6	16.1	6.24	211	0.441	158
	14-Jun-05	942	-8.6	-61.0	289	183	3.89	ND (0.5)	93.5	20	8.91	253	0.464	137
	14-Jun-05 FD	980	-7.2	-59.0	294	185	3.94	ND (0.5)	100	20.9	9.06	268	0.475	137
	04-Oct-05	950	-8.2	-68.0	252	171	3.77	ND (0.5)	83.3	14.9	9.93	164	0.362	141
	04-Oct-05 FD	910	-8.3	-60.0	251	171	3.75	ND (0.5)	94.6	15.3	10.2	185	0.371	146
	14-Dec-05	838	-8.4	-55.0	224	158	3.74	ND (0.5)	75.5	14.5	9.8	143	0.396	153
	14-Dec-05 FD	896	-8.4	-50.0	219	155	3.75	ND (0.5)	73	14.1	9.71	151	0.382	156
	09-Mar-06	910	-8.4	-64.1	245	164	3.83	ND (0.5)	76.4	15.6	6.97	210	0.39	170
MW-26	03-Mar-04	1900	-6.7	-54.0	770	400	4.6	ND (0.5)	170	40	12	470	0.5	110
	14-May-04	9300 R	-8.4	-60.0	850	480	5.1	ND (0.5)	190	50	14	490	0.6	110
	22-Sep-04	2300	-6.7	-59.0	821	472	5.65	ND (1)	170	46	13	390	0.4	98
	16-Dec-04	2130	-8.6	-64.0	835	388	5	0.578	176	45.7	17.8	466	0.662	100
	08-Mar-05	1840	-8.8	-70.0	756	370	4.48	ND (0.5)	166	41.6	10.7	439	0.557	98.7
	08-Mar-05 FD	1800	-8.7	-70.0	708	338	4.45	ND (0.5)	166	40.9	11.4	438	0.559	96.1
	13-Jun-05	2130	-8.2	-65.0	847	371	4.9	ND (0.5)	178	44.6	14	511	0.663	103
	04-Oct-05	2120	-7.8	-68.0	779	372	4.88	0.601	166	40.4	19.8	352	0.526	109
	12-Dec-05	2610	-8.5	-55.0	788	372	4.88	0.546	162	39.9	20.3	349	0.613	99.7
	08-Mar-06	2070	-8.6	-60.4	772	324	4.9	ND (0.5)	155	38.1	11.7	434 J	0.621	121
MW-27-20	03-Mar-04	640	-11.7	-100.0	74	200	ND (0.4)	ND (0.5)	79	26	4	84	ND (0.2)	180
	12-May-04	570	-11.3	-98.0	72	200	ND (0.4)	ND (0.5)	77	25	3.7	87	ND (0.2)	170
	21-Sep-04	670	-12.3	-92.0	77.2	212	ND (0.2)	ND (0.2)	76	26	5	82	ND (0.2)	160
	15-Dec-04	692	-11.9	-101.0	87.2	236	ND (0.5)	ND (0.5)	91.5	32.6	4.61	88.4	ND (0.2)	169
	08-Mar-05	1250	-12	-102.0	190	432	ND (0.5)	ND (0.5)	137	56.6	4.89	195	ND (0.2)	215
	18-Jul-05	---	-11.9	-98.0	81.9	228	ND (0.5)	ND (0.5)	96.1	30.1	4.27	94.8	ND (0.2)	160
	05-Oct-05	742	-11.8	-102.0	91.1	252	ND (0.5)	ND (0.5)	88.6	31.4	5.48	81	ND (0.2)	175
	14-Dec-05	1020	-11.7	-91.0	118	347	ND (0.5)	ND (0.5)	116	41.8	6.96	116	ND (0.2)	216
	06-Mar-06	664	-12.1	-90.9	89.7	231	ND (0.2)	ND (0.2)	89.1	28.8	4.9	103	ND (0.2)	385
MW-28-25	04-Mar-04	1000	-11.3	-95.0	220	290	ND (0.4)	ND (0.5)	120	33	3.8	210	0.2	260

TABLE 6

Interim Measures Performance Monitoring Analytical Results, March 2004 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Total Dissolved Solids	Oxygen 18	Deuterium	Chloride	Sulfate	Nitrate	Bromide	Calcium	Magnesium	Potassium	Sodium	Boron	Alkalinity
Monitoring Wells														
MW-28-25	11-May-04	800	-11.3	-95.0	110	270	ND (0.4)	ND (0.5)	110	29	3.9	120	ND (0.2)	240
	07-Jun-04	890	-12.5	-100.0	150	220	ND (0.4)	---	---	---	---	---	---	---
	20-Sep-04	850 J	-11.7	-89.0	99.1	286	ND (0.4)	ND (0.2)	110	30	4.6	120	ND (0.2)	210
	14-Dec-04	810	-12	-99.0	110	310	ND (0.5)	ND (0.5)	122	35.7	4.78	103	ND (0.2) J	202
	10-Mar-05	880	-12.2	-95.0	112	302	ND (0.5)	ND (0.5)	129	36.3	3.5	122	ND (0.2)	204
	15-Jun-05	974	-11.6	-91.0	108	359	ND (0.5)	ND (0.5)	133	38.9	6.54	117	ND (0.2)	221
	06-Oct-05	884	-11.7	-95.0	99.8	300	ND (0.5)	ND (0.5)	123	37	6.61	88.7	ND (0.2)	197
	16-Dec-05	1010	-11.4	-90.0	128	348	ND (0.5)	ND (0.5)	134	41.5	6.46	107	ND (0.2)	212
	09-Mar-06	746	-11.5	-93.9	84.4	225	ND (0.5)	ND (0.5)	98.5	27.5	4.15 J	88.5	ND (0.2)	244
MW-30-30	04-Mar-04	36000	-9	-76.0	19000	4100	ND (4)	5.2	1000	1000	50	9600	3.6	570
	12-May-04	30000	-7.8	-71.0	14000	3000	ND (4)	ND (50)	1300	800	47	8300	2.8	610
	23-Sep-04	42000	-9.5	-73.0	22000	4500	ND (200)	ND (100)	900	890	76	11000	4.1	570
	15-Dec-04	45500	-9.5	-79.0	19900	4730	ND (5)	8.14	1300	1400	118	6110	7.84	458
	10-Mar-05	38800	-9.8	-79.0	16000	4270	ND (5)	7.91	1590	1600	95.4	13600	4.97	421
	07-Oct-05	36400	-8.5	-75.0	17600	4000	ND (0.5)	ND (10)	1020	842	93.6	7650	5.2	521
	15-Dec-05	35700	-8.7	-59.0	19700	4070	ND (1)	3.13	1060	894	110	8540	6.14	504
	13-Mar-06	39700 J	-8.8	-70.5	18600	4530	ND (0.5)	ND (50)	1050	892	77.2	11300	4.62	650
MW-30-50	05-Mar-04	6100	-6.4	-58.0	3000	750	1.2	ND (5)	280	120	16	1600	0.9	280
	05-Mar-04 FD	5900	-6.6	-56.0	2900	730	1.2	ND (5)	290	120	15	1600	0.9	280
	14-May-04	6300	-7.7	-54.0	2700	800	3.5	ND (5)	270	100	15	1700	1.2	180
	14-May-04 FD	6500	-7.5	-54.0	2600	800	3.5	ND (5)	270	110	16	1700	1.1	180
	23-Sep-04	6600	-7.3	-58.0	3330	742	1.58	ND (10)	290	100	18	1800	0.9	240
	23-Sep-04 FD	6800	-6.7	-58.0	3220	694	1.64	ND (10)	310	110	19	1900	0.9	240
	15-Dec-04	6750	-7.9	-63.0	3040	716	ND (0.5)	1.14	378	117	36.5	1720	1.39	249
	15-Dec-04 FD	6690	-7.8	-64.0	2920	725	ND (0.5)	1.13	372	114	37.8	1700	1.43	249
	10-Mar-05	6470 J	-8.3	-68.0	4660	672	ND (0.5)	1.03	335	107	16.5	2040	1.15	324
	07-Oct-05	6860	-9.4	-79.0	3060	857	ND (0.5)	0.899 J	438	101	37	1780	1.27	252
	16-Dec-05	5850	-10.5	-65.0	2360	578	ND (0.5)	0.645	265	77.9	32.9	1260	1.19	212
	09-Mar-06	5380	-9.8	-83.5	2420	651	ND (0.5)	ND (0.5)	226	66.2	14.6	1640	1.18	275
MW-31-60	03-Mar-04	1700	-8.1	-60.0	750	280	6.2	ND (0.5)	160	22	7.9	420	0.4	72
	14-May-04	1900	-9	-59.0	750	260	5.5	ND (0.5)	150	22	7.5	420	0.4	74

TABLE 6

Interim Measures Performance Monitoring Analytical Results, March 2004 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Total Dissolved Solids	Oxygen 18	Deuterium	Chloride	Sulfate	Nitrate	Bromide	Calcium	Magnesium	Potassium	Sodium	Boron	Alkalinity
Monitoring Wells														
MW-31-60	22-Sep-04	1700	-8	-61.0	691	236	5.45	0.46	130	19	7.9	430	ND (0.2)	79
	16-Dec-04	1640	-8.7	-64.0	691	246	5.36	ND (0.5)	118	18.5	9.67	421	0.44	80
	09-Mar-05	1540	-8.6	-63.0	649	210	4.94	ND (0.5)	108	17.3	5.97	424	0.401	76.6
	13-Jun-05	1660	-8.2	-65.0	745	207	4.12	ND (0.5)	121	18.9	6.57	403	0.388	70
	06-Oct-05	1660	-8.6	-65.0	691	206	4.01	ND (0.5)	109	16.5	9.75	308	0.462	77.3
	13-Dec-05	1620	-8.7	-54.0	669	199	4.14	ND (0.5)	87	15.4	9.32	275	0.359	73
	15-Mar-06	1560 J	-8.6	-65.6	661	191	4.37	ND (0.5)	106	17.5	7.3	403	0.393	89.3
	15-Mar-06 FD	1640 J	-8.6	-64.9	662	192	4.34	ND (0.5)	101	16.8	6.94	391	0.383	81.9
MW-32-20	04-Mar-04	6200	-8	-64.0	2900	540	ND (0.4)	ND (5)	520	180	13	1500	1.1	570
	12-May-04	5000	-7.1	-70.0	2100	130	ND (0.4)	ND (5)	510	180	16	1100	0.8	600
	20-Sep-04	21000 J	-7.3	-63.0	10200	3800	ND (0.4)	ND (100)	1100	420	45	4900	3	920
	14-Dec-04	16100	-8.2	-66.0	8890	1990	ND (5)	ND (5)	1140	400	46.8	3500	4.22 J	784
	09-Mar-05	12500	-7.2	-65.0	6930	1660	ND (0.5)	3.51	838	302	36.9	4000	2.76	123
	17-Jun-05	10200	-9	-67.0	4810	690	ND (0.5)	ND (2.5)	566	231	23.3	2620	1.75	676
	04-Oct-05	28800	-7.8	-65.0	14200	2420	ND (5)	6.19	1380 J	613 J	91.1 J	5400 J	4.75 J	733
	16-Dec-05	24600	-7.8	-61.0	12200	2140	ND (1)	3.48	1470	552	90.4	4950	4.16	861
	10-Mar-06	20900	-8.3	-65.5	10600	1970	ND (0.5)	ND (0.5)	1350	530	56.1	6440	3.54	432
MW-32-35	04-Mar-04	4200	-8	-65.0	1900	470	ND (0.4)	ND (5)	340	99	13	1100	1	310
	12-May-04	4500	-6.9	-64.0	1900	460	ND (0.4)	ND (5)	330	94	12	1100	0.9	320
	21-Sep-04	4500	-8.7	-63.0	2150	422	ND (0.2)	ND (10)	320	89	14	990	0.9	310
	15-Dec-04	4120	-8.5	-67.0	1760	524	ND (0.5)	0.89	351	96.3	24.7 J	954	1.28	276
	09-Mar-05	3560	-8.2	-68.0	1770	465	ND (0.5)	0.845	312	85.5	13	944	1.07	260
	17-Jun-05	7550	-9.5	-72.0	3520	787	ND (0.5)	ND (2.5)	506	120	14.8	2110	1.18	223
	04-Oct-05	8340	-8.3	-70.0	3840	765	ND (0.5)	ND (5)	567	134	29.3	1530	1.26	208
	16-Dec-05	7660	-8.8	-63.0	3510	710	ND (1)	1.02	606	128	30	1580	1.25	219
	10-Mar-06	9230	-8.6	-74.0	4210	1010	ND (0.5)	ND (0.5)	654	129	19.2	2360	1.13	234
MW-34-55	04-Mar-04	6700	-9.6	-77.0	3200	850	ND (0.4)	ND (5)	360	97	13	2000	1.2	270
	13-May-04	5700	-10.3	-77.0	2700	770	ND (0.4)	ND (5)	310	77	15	1900	1	270
	08-Jun-04	---	---	---	---	---	---	---	246	68.3	---	---	1.18	---
	22-Sep-04	5800	-11	-82.0	2700	732	ND (0.2)	ND (10)	260	85.2	17	1800	0.9	250
	15-Dec-04	5860	-10.9	-83.0	2390	743	ND (0.5)	0.743	288	69.9	33	1540	1.34	234

TABLE 6

Interim Measures Performance Monitoring Analytical Results, March 2004 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Total Dissolved Solids	Oxygen 18	Deuterium	Chloride	Sulfate	Nitrate	Bromide	Calcium	Magnesium	Potassium	Sodium	Boron	Alkalinity
Monitoring Wells														
MW-34-55	10-Mar-05	6230	-10.8	-82.0	2620	739	ND (0.5)	0.654	366	71.3	29.1	1900	1.19	240
	15-Jul-05	---	-10.3	-84.0	2250	607	ND (0.5)	ND (0.5)	247	52	16.5	1420	1.02	242
	05-Oct-05	5150	-10.6	-88.0	2170	619	ND (0.5)	ND (0.5)	272	59.1	25.8	1230	1.2	232
	14-Dec-05	5100	-10.8	-74.0	2150	552	ND (0.5)	0.588	217	45	27.2	965	0.937	236
	08-Mar-06	4850	-10.8	-86.8	2080	593	ND (0.5)	ND (0.5)	256	54.2	13.5	1640	0.956	272
MW-34-80	05-Mar-04	8800	-8.9	-75.0	4700	1000	ND (0.4)	ND (5)	280	24	25	2600	1.7	180
	13-May-04	8800	-10.2	-77.0	3900	1000	ND (4)	ND (5)	390	54	27	2800	1.4	270
	13-May-04 FD	9100	-10.2	-76.0	4000	1000	ND (4)	ND (5)	390	53	27	2700	1.5	280
	08-Jun-04	---	---	---	---	---	---	---	396	56.6	---	---	1.72	---
	23-Sep-04	8900	-9.9	-79.0	4050	997	ND (10)	ND (10)	410	76	32	2800	1.4	290
	23-Sep-04 FD	9900	-9.6	-78.0	4170	998	ND (10)	ND (10)	410	84.3	35	2800	1.5	290
	13-Dec-04	---	---	---	---	---	---	---	455	55	40.4	2220	1.63	---
	08-Mar-05	6940	-10.4	-83.0	4180	1040	ND (0.5)	1.01	439	68.1	28	2750	1.65	304
	15-Mar-05	8980	---	---	3920	ND (5)	ND (1)	---	445	65.7	29.7	2990	---	288
	30-Jun-05	7840	-8.4	-82.0	3910	979	ND (0.5)	ND (0.5)	497	76.5	27.7	2670	1.66	302
	05-Oct-05	10200	-10.1	-85.0	3880	1060	ND (0.5)	ND (0.5)	429	72.5	47.4	1660	1.57	302
	14-Dec-05	8800	-10.2	-71.0	3700	880	ND (0.5)	0.854	432	68.3	54.9	1710	1.54	297
	09-Mar-06	7830	-9.9	-86.8	3520	986	ND (0.5)	ND (0.5)	383	65.8	24	2420	1.49	313
Surface Water Stations														
R-27	03-Mar-04	630	-11.4	-86.0	87	250	ND (0.4)	ND (0.5)	77	28	4.4	94	ND (0.2)	140
	12-May-04	590	-11.4	-96.0	84	240	ND (0.4)	ND (0.5)	74	27	4.8	96	ND (0.2)	140
	22-Sep-04	680	-12.1	-98.0	88.4	237	0.38	ND (0.2)	77	29	4.8	99	ND (0.2)	130
	13-Dec-04	632	-11.4	-95.0	84.4	235	ND (0.5) R	ND (0.5)	79.6	31.4	4.95	86.5	ND (0.2) J	125
	07-Mar-05	669	-12.3	-102.0	92.7	244	ND (0.5)	ND (0.5)	82.8	31.3	4.72	108	ND (0.2)	136
	14-Jun-05	686	-11.4	-92.0	90.9	266	ND (0.5)	ND (0.5)	81.9	29.8	6.04	98.9	ND (0.2)	127
	05-Oct-05	678	-11.6	-94.0	85.1	255	ND (0.5)	ND (0.5)	101	36.2	6.56	91.2	ND (0.2)	130
	16-Dec-05	718	-11.7	-87.0	87.9	253	ND (0.5)	ND (0.5)	85.5	29.5	5.99	75.6	ND (0.2)	126
	06-Mar-06	656	-11.8	-92.1	90.6	268	ND (0.5)	ND (0.5)	83.5	29.4	5.44 J	101	ND (0.2)	144
R-28	03-Mar-04	670	-11.3	-90.0	87	250	0.5	ND (0.5)	78	28	4.4	93	ND (0.2)	140
	12-May-04	580	-11.5	-98.0	84	240	ND (0.4)	ND (0.5)	72	26	4.2	92	ND (0.2)	140
	22-Sep-04	680	-12.1	-99.0	104	240	0.38	ND (0.2)	79	30	4.9	99	ND (0.2)	130

TABLE 6

Interim Measures Performance Monitoring Analytical Results, March 2004 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Total Dissolved Solids	Oxygen 18	Deuterium	Chloride	Sulfate	Nitrate	Bromide	Calcium	Magnesium	Potassium	Sodium	Boron	Alkalinity
Surface Water Stations														
R-28	13-Dec-04	652	-11.1	-95.0	84.8	236	ND (0.5) R	ND (0.5)	79.9	31.5	4.93	86	ND (0.2) J	133
	08-Mar-05	651	-12.5	-102.0	90.4	231	ND (12.5)	ND (0.5)	83.7	31.4	5.02	107	ND (0.2)	132
	14-Jun-05	680	-11.6	-95.0	91.2	268	ND (0.5)	ND (0.5)	78.5	28.5	5.08	94.5	ND (0.2)	127
	05-Oct-05	672	-11.6	-94.0	85.5	255	ND (0.5)	ND (0.5)	85.7	30.4	6.3	77	ND (0.2)	122
	16-Dec-05	710	-11.5	-83.0	88.1	254	ND (0.5)	ND (0.5)	87.2	29.8	6.11	76.8	ND (0.2)	126
	06-Mar-06	675	-12.3	-93.4	91	270	ND (0.5)	ND (0.5)	76.6	26.6	5.22 J	91.5	ND (0.2)	146

NOTES:

FD field duplicate sample
ND parameter not detected at the listed reporting limit
J concentration or reporting estimated by laboratory or data validation
R result exceeded analytical criteria for precision and accuracy; should not be used for project decision-making
(---) 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.

TABLE 7

Title 22 Metals, September 2004 through March 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-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-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 (1.0)	ND (1.0)	ND (1.0)	**957**	ND (1.0)	ND (1.0)	ND (0.2)	77.3	11.7	5.73	ND (1.0)	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
MW-12		10/4/2005	ND (2.0)	**146**	ND (300)	ND (1.0)	ND (1.0)	ND (1.0)	**644**	ND (10)	ND (1.0)	ND (0.2)	76.9	ND (20)	3.92	ND (1.0)	ND (1.0)	41.6	ND (20)
MW-12	FD	10/4/2005	ND (2.0)	**151**	ND (300)	ND (1.0)	ND (1.0)	ND (1.0)	**613**	ND (10)	ND (1.0)	ND (0.2)	79.1	ND (20)	4.06	ND (1.0)	ND (1.0)	39.7	ND (20)
MW-12		12/13/2005	ND (3.0)	**157**	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	**602**	ND (10)	ND (2.0)	ND (0.2)	62.8	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	45.9	ND (20)
MW-12		4/18/2006	ND (2.0)	**127**	48.2	ND (1.0)	ND (1.0)	ND (1.0)	**1300**	ND (1.0)	ND (1.0)	ND (0.2)	52.8	3.91	4.30	ND (1.0) J	ND (1.0)	40.8	ND (10)
MW-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
MW-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
MW-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
MW-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 J
MW-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 J
MW-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)
MW-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)
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-20-130		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

TABLE 7

Title 22 Metals, September 2004 through March 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-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-21	12/14/2005	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (1.0)	37.1	ND (2.0)	ND (0.2)	23.9	27.9	29.8	ND (5.0)	ND (1.0)	12.1	74.6
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-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-34-80	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
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-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 FD	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 FD	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)

TABLE 7

Title 22 Metals, September 2004 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

NOTES:

ND not detected at listed reporting limit
FD field duplicate sample
^ U.S. Environmental Protection Agency (USEPA) MCL

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. The regulation package is in the early stages, with the adoption process slated for completion no sooner than mid-2006

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 * . NE = not established

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.

A one-time sample from MW-21 was collected and analyzed in December 2005 for Title 22 metals to confirm the spatially isolated occurrence of arsenic in MW-12.

Groundwater samples from MW-34-55 in July 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 8

Manual Water Level Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-9	89	536.56	08-Mar-05	2:43 PM	82.04	0.20	454.50
			07-Apr-05	11:51 AM	82.07	0.19	454.47
			18-May-05	6:36 AM	81.10	0.19	455.43
			16-Jun-05	1:32 PM	80.45	0.19	456.08
			03-Oct-05	12:17 PM	80.22	0.20	456.31
			07-Mar-06	11:17 AM	81.00	0.20	455.54
MW-10	97	530.65	08-Mar-05	1:56 PM	76.35	0.39	454.28
			18-May-05	6:32 AM	75.21	0.21	455.38
			16-Jun-05	1:07 PM	74.66	0.21	455.93
			03-Oct-05	11:41 AM	74.46	0.21	456.13
			12-Dec-05	10:39 AM	75.09	0.21	455.51
			06-Mar-06	11:30 AM	75.28	0.21	455.32
MW-11	86	522.61	08-Mar-05	1:04 PM	68.50	0.10	454.04
			18-May-05	6:24 AM	67.12	0.16	455.42
			16-Jun-05	12:22 PM	66.69	0.16	455.85
			03-Oct-05	10:17 AM	66.65	0.15	455.89
			12-Dec-05	9:56 AM	67.30	0.15	455.25
			06-Mar-06	12:25 PM	67.34	0.15	455.21
MW-12	50	484.01	08-Mar-05	2:55 PM	30.09	0.20	453.87
			06-Apr-05	1:20 PM	30.07	0.22	453.89
			18-May-05	7:15 AM	28.81	0.22	455.15
			13-Jun-05	9:30 AM	28.54	0.22	455.42
			16-Sep-05	9:05 AM	28.35	0.22	455.61
			04-Oct-05	7:30 AM	28.52	0.23	455.44
			13-Dec-05	11:00 AM	29.09	0.23	454.87
			18-Apr-06	11:30 AM	28.76	0.19	455.20
MW-13	52	488.64	11-Mar-05	11:14 AM	35.38	0.10	453.21
			18-May-05	6:12 AM	32.81	0.12	455.77
			14-Jun-05	11:10 AM	32.59	0.12	455.99
			04-Oct-05	10:46 AM	33.10	0.13	455.48
			13-Dec-05	1:26 PM	33.10	0.13	455.48
			08-Mar-06	8:45 AM	33.35	0.13	455.23
			08-Mar-06	2:10 PM	32.78	0.13	455.80
MW-14	134	570.99	09-Mar-05	12:43 PM	117.05	0.10	453.88
			07-Apr-05	9:04 AM	116.48	0.10	454.45
			18-May-05	7:25 AM	115.29	0.10	455.64
			15-Jun-05	8:58 AM	114.90	0.10	456.02
			06-Oct-05	9:03 AM	115.15	0.10	455.77
			15-Dec-05	11:55 AM	115.58	0.10	455.35
			08-Mar-06	8:28 AM	115.33	0.10	455.60
			09-Mar-06	12:14 PM	115.16	0.10	455.77
MW-15	203	641.52	08-Mar-05	10:23 AM	187.18	0.10	454.28
			18-May-05	6:43 AM	185.43	0.10	456.02
			17-Jun-05	9:49 AM	185.38	0.10	456.07
			06-Oct-05	7:21 AM	185.25	0.10	456.20

TABLE 8

Manual Water Level Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-15	203	641.52	07-Mar-06	1:15 PM	185.35	0.10	456.11
			08-Mar-06	8:45 AM	185.52	0.10	455.94
MW-16	218	657.31	18-May-05	6:52 AM	201.74	0.09	455.51
			06-Oct-05	7:58 AM	200.76	0.09	456.48
			07-Mar-06	2:08 PM	200.80	0.09	456.45
			08-Mar-06	8:52 AM	200.98	0.10	456.27
MW-17	154	589.96	18-May-05	6:51 AM	133.82	0.11	456.07
			05-Oct-05	10:27 AM	133.27	0.11	456.62
MW-18	107	545.32	09-Mar-05	11:21 AM	91.03	0.10	454.22
			18-May-05	6:56 AM	89.41	0.09	455.83
			15-Jun-05	8:15 AM	89.05	0.09	456.19
			06-Oct-05	8:32 AM	89.06	0.09	456.18
			08-Mar-06	7:59 AM	89.33	0.09	455.93
			09-Mar-06	11:35 AM	89.06	0.09	456.20
MW-19	66	499.92	07-Mar-05	1:53 PM	47.07	0.22	452.80
			18-May-05	6:05 AM	44.20	0.15	455.66
			14-Jun-05	8:55 AM	43.91	0.15	455.95
			04-Oct-05	9:45 AM	45.03	0.13	454.83
			12-Dec-05	2:03 PM	45.97	0.13	453.89
			08-Mar-06	8:59 AM	45.16	0.13	454.70
			09-Mar-06	2:05 PM	44.97	0.13	454.89
MW-20-70	70	500.15	10-Mar-05	9:35 AM	48.44	0.14	451.64
			07-Apr-05	10:04 AM	46.15	0.14	453.93
			15-Jun-05	8:51 AM	45.02	0.14	455.05
			11-Oct-05	9:33 AM	45.96	0.20	454.12
			15-Dec-05	1:29 PM	47.29	0.20	452.80
			08-Mar-06	9:20 AM	---	0.24	---
			10-Mar-06	12:53 PM	46.53	0.20	453.56
MW-20-100	101	500.58	10-Mar-05	12:30 PM	49.08	0.30	451.40
			15-Jun-05	11:12 AM	45.77	0.30	454.71
			11-Oct-05	8:42 AM	46.04	0.25	454.42
			15-Dec-05	12:53 PM	48.13	0.25	452.33
			10-Mar-06	10:42 AM	46.27	0.25	454.19
MW-20-130	132	500.66	09-Mar-05	12:18 PM	72.90	0.67	427.79
			07-Apr-05	10:55 AM	47.28	0.75	453.50
			15-Jun-05	9:51 AM	46.28	0.75	454.49
			07-Oct-05	9:35 AM	47.65	0.63	453.05
			16-Dec-05	8:38 AM	49.11	0.60	451.60
			10-Mar-06	11:45 AM	47.91	0.56	452.75
MW-21	58	505.55	07-Mar-05	1:22 PM	50.98	0.87	454.59
			18-May-05	7:02 AM	50.47	0.87	455.10
			14-Jun-05	9:43 AM	50.05	0.87	455.52
			04-Oct-05	8:46 AM	50.10	0.75	455.46
			13-Dec-05	12:24 PM	50.65	0.75	454.91
			08-Mar-06	9:21 AM	50.01	0.83	455.56

TABLE 8

Manual Water Level Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-21	58	505.55	09-Mar-06	2:37 PM	50.51	0.70	455.05
MW-22	12	460.72	10-Mar-05	12:54 PM	7.53	1.91	453.25
			17-Jun-05	8:42 AM	5.52	1.88	455.28
			04-Oct-05	9:41 AM	6.17	2.20	454.64
			16-Dec-05	12:17 PM	6.93	2.20	453.86
			15-Mar-06	9:13 AM	6.45	2.20	454.35
MW-23	81	507.33	07-Mar-05	12:48 PM	53.00	1.17	454.46
			14-Jun-05	9:00 AM	51.86	1.16	455.60
			04-Oct-05	8:29 AM	54.08	1.16	453.37
			14-Dec-05	11:58 AM	52.64	1.16	454.82
			08-Mar-06	1:38 PM	52.77	1.16	454.69
MW-24A	127	567.16	07-Mar-05	11:44 AM	113.08	0.20	454.05
			18-May-05	6:13 AM	111.75	0.23	455.38
			16-Jun-05	11:21 AM	111.28	0.23	455.84
			03-Oct-05	9:45 AM	111.25	0.22	455.87
			06-Mar-06	1:18 PM	111.24	0.22	455.88
MW-24B	215	564.76	07-Mar-05	10:41 AM	110.83	0.83	454.12
			18-May-05	6:11 AM	109.51	0.82	455.43
			16-Jun-05	10:23 AM	109.01	0.82	455.92
			03-Oct-05	9:02 AM	109.10	0.82	455.83
			07-Mar-06	11:05 AM	109.53	0.83	455.40
MW-24BR	441	563.95	07-Mar-05	10:04 AM	109.54	0.92	455.03
			18-May-05	6:08 AM	108.29	0.92	456.28
			15-Dec-05	2:25 PM	108.20	0.93	456.41
			16-Mar-06	9:00 AM	114.53	0.94	450.15
MW-25	107	542.90	09-Mar-05	1:46 PM	89.52	0.10	453.32
			07-Apr-05	10:04 AM	88.80	0.11	454.04
			18-May-05	6:08 AM	87.52	0.11	455.31
			14-Jun-05	10:08 AM	87.10	0.11	455.74
			04-Oct-05	10:18 AM	87.58	0.11	455.25
			14-Dec-05	1:07 PM	88.30	0.11	454.54
			08-Mar-06	8:53 AM	88.07	0.11	454.77
			09-Mar-06	12:52 PM	87.97	0.09	454.87
MW-26	70	502.22	08-Mar-05	11:20 AM	48.98	0.20	453.17
			18-May-05	6:54 AM	47.08	0.23	455.07
			13-Jun-05	10:04 AM	46.70	0.23	455.46
			04-Oct-05	9:05 AM	47.18	0.23	454.97
			12-Dec-05	1:16 PM	47.85	0.23	454.32
			08-Mar-06	12:29 PM	47.65	0.23	454.52
			08-Mar-06	8:16 AM	47.72	0.23	454.45
MW-27-20	14	460.56	08-Mar-05	10:50 AM	8.68	0.03	451.87
			04-Apr-05	1:42 PM	5.87	0.05	454.68
			04-May-05	9:56 AM	4.39	0.05	456.15
			18-Jul-05	9:57 AM	4.14	0.12	456.41
			05-Oct-05	9:20 AM	5.80	0.06	454.74

TABLE 8

Manual Water Level Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-27-20	14	460.56	14-Dec-05	2:12 PM	7.40	0.06	453.15
			06-Mar-06	10:19 AM	5.59	0.07	454.96
MW-27-60	59	461.38	01-Mar-05	11:57 AM	8.86	0.95	452.77
			08-Mar-05	9:10 AM	9.73	0.95	451.89
			23-Mar-05	10:00 AM	7.45	0.95	454.16
			29-Mar-05	12:52 PM	7.35	0.95	454.26
			05-Apr-05	9:07 AM	7.33	0.95	454.30
			12-Apr-05	8:27 AM	5.03	0.95	456.61
			19-Apr-05	8:44 AM	5.30	0.95	456.32
			26-Apr-05	8:05 AM	5.04	0.95	456.58
			04-May-05	9:13 AM	5.42	0.95	456.20
			18-Jul-05	7:50 AM	4.83	0.95	456.80
			05-Oct-05	7:53 AM	6.71	0.87	454.86
			15-Dec-05	10:59 AM	8.80	0.87	452.79
			07-Mar-06	10:24 AM	6.74	0.77	454.83
MW-27-85	80	460.99	01-Mar-05	12:39 PM	8.60	1.31	452.92
			08-Mar-05	9:54 AM	9.42	1.31	452.09
			23-Mar-05	10:32 AM	7.24	1.31	454.27
			29-Mar-05	12:12 PM	7.04	1.31	454.46
			05-Apr-05	8:04 AM	7.00	1.31	454.52
			12-Apr-05	9:06 AM	4.93	1.31	456.61
			19-Apr-05	7:50 AM	5.00	1.31	456.52
			26-Apr-05	8:53 AM	5.41	1.31	456.11
			04-May-05	8:17 AM	5.02	1.31	456.50
			19-May-05	8:39 AM	5.04	1.31	456.48
			02-Jun-05	10:21 AM	5.30	1.31	456.22
			19-Jul-05	6:00 AM	4.46	1.13	457.01
			16-Aug-05	5:12 AM	6.00	1.13	455.46
			08-Sep-05	8:21 AM	6.14	1.13	455.31
			05-Oct-05	8:35 AM	6.65	1.20	454.78
			03-Nov-05	10:22 AM	6.95	1.20	454.53
			15-Dec-05	10:20 AM	8.58	1.20	452.89
			12-Jan-06	1:48 PM	8.12	1.20	453.36
			08-Feb-06	12:41 PM	7.60	1.20	453.91
			06-Mar-06	11:12 AM	6.68	1.20	454.84
MW-28-25	21	466.85	10-Mar-05	9:09 AM	14.91	0.09	451.92
			04-Apr-05	8:08 AM	11.91	0.10	454.92
			03-May-05	8:40 AM	10.45	0.10	456.37
			15-Jun-05	9:45 AM	10.60	0.10	456.23
			13-Jul-05	9:12 AM	10.24	0.10	456.58
			06-Oct-05	8:13 AM	11.96	0.08	454.86
			16-Dec-05	10:00 AM	13.56	0.08	453.27
			09-Mar-06	9:19 AM	11.65	0.09	455.19
MW-28-90	98	467.51	07-Mar-05	2:32 PM	15.87	0.55	451.77
			22-Mar-05	1:46 PM	13.78	0.56	453.86
			04-Apr-05	8:43 AM	13.24	0.58	454.43

TABLE 8

Manual Water Level Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-28-90	98	467.51	20-Apr-05	7:56 AM	11.30	0.58	456.36
			03-May-05	9:48 AM	11.61	0.58	456.05
			19-May-05	7:25 AM	11.24	0.58	456.42
			02-Jun-05	8:30 AM	11.43	0.58	456.23
			15-Jun-05	10:41 AM	11.93	0.58	455.75
			01-Jul-05	9:53 AM	11.39	0.68	456.36
			13-Jul-05	10:04 AM	11.40	0.68	456.35
			18-Aug-05	5:05 AM	11.88	0.68	455.87
			09-Sep-05	7:11 AM	12.14	0.68	455.60
			06-Oct-05	7:21 AM	12.72	0.58	454.93
			02-Nov-05	2:30 PM	13.72	0.58	453.95
			16-Dec-05	9:15 AM	14.33	0.58	453.32
			10-Jan-06	10:39 AM	14.08	0.58	453.58
			09-Feb-06	12:28 PM	13.92	0.58	453.75
			06-Mar-06	2:02 PM	13.24	0.58	454.44
MW-29	42	485.21	09-Mar-05	10:27 AM	32.38	0.24	452.82
			06-Apr-05	7:50 AM	30.73	0.30	454.47
			05-May-05	7:56 AM	29.29	0.30	455.91
			15-Jun-05	8:45 AM	29.11	0.30	456.09
			04-Oct-05	1:45 PM	30.11	0.32	455.09
			12-Dec-05	10:19 AM	31.23	0.32	453.97
			13-Apr-06	9:47 AM	29.47	0.31	455.73
MW-30-30	27	468.12	10-Mar-05	9:56 AM	15.78	3.14	452.68
			06-Apr-05	11:09 AM	14.07	2.97	454.41
			09-May-05	11:46 AM	13.05	2.97	455.44
			07-Oct-05	10:15 AM	14.73	3.00	453.73
			15-Dec-05	2:23 PM	14.73	3.00	453.61
			13-Mar-06	11:55 AM	14.27	3.00	454.08
MW-30-50	53	468.81	10-Mar-05	11:33 AM	17.09	0.58	451.75
			06-Apr-05	9:54 AM	14.00	0.54	454.83
			09-May-05	10:37 AM	13.38	0.54	455.45
			07-Oct-05	9:19 AM	14.42	0.77	454.47
			16-Dec-05	11:47 AM	15.82	0.77	453.07
			09-Mar-06	12:35 PM	14.72	0.67	454.15
MW-31-60	64	496.81	09-Mar-05	2:49 PM	44.65	0.16	452.11
			07-Apr-05	11:06 AM	42.15	0.20	454.61
			13-Jun-05	11:35 AM	40.96	0.20	455.79
			06-Oct-05	12:35 PM	42.20	0.16	454.55
			13-Dec-05	2:15 PM	43.20	0.16	453.55
			08-Mar-06	9:10 AM	42.31	0.15	454.44
			15-Mar-06	2:52 PM	42.43	0.16	454.32
MW-31-135	135	498.11	10-Mar-05	12:19 PM	46.40	0.69	451.77
			16-Jun-05	10:20 AM	42.84	0.74	455.39
			06-Oct-05	12:56 PM	44.33	0.55	453.74
			14-Dec-05	8:26 AM	45.21	0.53	452.90
			15-Mar-06	9:43 AM	44.34	0.56	453.78

TABLE 8

Manual Water Level Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-32-20	20	461.51	09-Mar-05	2:16 PM	9.29	1.12	452.28
			04-Apr-05	1:02 PM	7.78	1.75	453.87
			09-May-05	1:05 PM	6.30	1.75	455.36
			17-Jun-05	11:28 AM	6.10	1.75	455.56
			04-Oct-05	11:44 AM	7.21	1.50	454.41
			16-Dec-05	2:59 PM	8.31	1.50	453.29
			10-Mar-06	10:42 AM	7.32	2.25	454.35
MW-32-35	37	461.63	09-Mar-05	2:50 PM	10.06	0.41	451.57
			04-Apr-05	12:17 PM	7.47	0.45	454.17
			09-May-05	12:20 PM	6.10	0.45	455.53
			17-Jun-05	10:52 AM	5.93	0.45	455.70
			04-Oct-05	10:57 AM	7.27	0.73	454.43
			16-Dec-05	2:16 PM	8.57	0.73	453.12
			10-Mar-06	11:08 AM	7.03	0.73	454.67
MW-33-40	42	487.41	10-Mar-05	11:20 AM	35.53	0.60	451.88
		487.38	04-Apr-05	9:40 AM	32.93	0.34	454.44
			05-May-05	9:54 AM	31.55	0.34	455.82
			17-Jun-05	8:36 AM	31.35	0.34	456.02
			06-Oct-05	8:56 AM	32.50	0.37	454.87
			06-Oct-05	8:56 AM	32.50	0.37	454.87
			12-Dec-05	2:10 PM	33.80	0.37	453.57
			09-Mar-06	11:22 AM	32.60	0.70	454.79
MW-33-90	88	487.57	09-Mar-05	12:05 PM	35.82	0.55	451.76
			22-Mar-05	12:25 PM	33.90	0.53	453.67
		487.55	04-Apr-05	10:00 AM	33.15	0.52	454.42
			19-Apr-05	11:24 AM	32.08	0.52	455.47
			05-May-05	11:06 AM	31.84	0.52	455.71
			18-May-05	12:02 PM	31.80	0.52	455.77
			01-Jun-05	8:40 AM	31.30	0.52	456.27
			16-Jun-05	10:28 AM	31.70	0.52	455.87
			20-Jul-05	5:42 AM	31.08	0.60	456.52
			06-Oct-05	9:51 AM	32.84	0.58	454.73
			13-Dec-05	12:09 PM	33.85	0.58	453.74
			08-Mar-06	9:45 AM	32.70	0.58	454.89
MW-33-150	155	487.77	02-Mar-05	9:15 AM	34.89	1.10	453.42
			16-Mar-05	9:17 AM	35.40	1.10	452.90
			16-Jun-05	8:38 AM	32.00	1.10	456.31
			20-Jul-05	5:43 AM	31.76	1.06	456.48
			17-Aug-05	8:47 AM	32.70	1.13	455.63
			09-Sep-05	6:11 AM	32.58	1.13	455.75
			06-Oct-05	11:54 AM	33.70	1.09	454.58
			02-Nov-05	1:49 PM	33.85	1.09	454.45
			12-Dec-05	1:33 PM	34.57	1.08	453.72
			10-Jan-06	12:10 PM	34.63	1.11	453.69
			07-Feb-06	11:50 AM	33.10	1.11	455.22
			08-Mar-06	8:50 AM	33.50	1.15	454.86

TABLE 8

Manual Water Level Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-33-210	223	487.25	16-Mar-05	9:45 AM	35.43	1.38	453.00
			16-Jun-05	12:07 PM	32.28	1.38	456.18
			20-Jul-05	5:40 AM	31.78	1.38	456.67
			17-Aug-05	7:47 AM	32.49	1.38	455.95
			06-Sep-05	9:05 AM	32.70	1.38	455.73
			06-Oct-05	11:02 AM	33.35	1.25	454.83
			02-Nov-05	1:05 PM	33.54	1.25	454.71
			12-Dec-05	11:29 AM	34.13	1.25	454.14
			10-Jan-06	1:10 PM	34.41	1.35	453.97
			07-Feb-06	10:40 AM	33.78	1.35	454.60
			06-Mar-06	12:25 PM	33.31	1.35	455.07
MW-34-55	57	460.88	10-Mar-05	11:52 AM	9.23	0.58	451.73
		460.95	05-Apr-05	10:00 AM	6.88	0.54	454.14
			05-May-05	12:50 PM	5.53	0.54	455.48
			15-Jul-05	6:58 AM	3.95	0.55	457.09
			05-Oct-05	12:03 PM	6.80	0.55	454.21
			14-Dec-05	10:15 AM	7.84	0.55	453.19
			08-Mar-06	12:04 PM	6.56	0.45	454.45
MW-34-80	84	460.99	01-Mar-05	9:30 AM	8.62	0.87	452.66
			08-Mar-05	1:22 PM	9.85	0.87	451.42
			22-Mar-05	11:00 AM	7.45	0.87	453.82
			29-Mar-05	9:15 AM	7.08	0.87	454.19
		461.20	05-Apr-05	11:06 AM	7.31	0.77	454.15
			12-Apr-05	11:07 AM	5.52	0.77	455.95
			19-Apr-05	10:35 AM	5.34	0.77	456.09
			26-Apr-05	11:00 AM	5.68	0.77	455.74
			04-May-05	11:09 AM	5.57	0.77	455.86
			18-May-05	9:38 AM	5.18	0.77	456.27
			01-Jun-05	10:43 AM	5.23	0.77	456.22
			30-Jun-05	11:56 AM	5.48	0.77	455.97
			14-Jul-05	9:00 AM	4.63	0.89	456.89
			15-Aug-05	7:36 AM	6.12	0.89	455.36
			07-Sep-05	7:11 AM	5.66	0.89	455.86
			05-Oct-05	12:00 PM	7.03	0.82	454.42
			03-Nov-05	8:24 AM	6.50	0.73	454.90
			14-Dec-05	9:10 AM	7.83	0.73	453.58
			11-Jan-06	1:13 PM	7.89	0.93	453.65
			08-Feb-06	9:58 AM	7.43	0.93	454.12
			09-Mar-06	9:58 AM	6.63	0.75	454.84
MW-34-100	117	460.90	01-Mar-05	10:52 AM	8.70	1.17	452.85
			08-Mar-05	12:15 PM	9.56	1.17	451.97
			23-Mar-05	11:16 AM	7.31	1.17	454.21
			29-Mar-05	10:37 AM	7.05	1.17	454.50
		460.96	05-Apr-05	1:00 PM	6.98	1.17	454.60
			12-Apr-05	10:05 AM	5.21	1.17	456.38
			19-Apr-05	9:55 AM	5.36	1.17	456.23

TABLE 8

Manual Water Level Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-34-100	117	460.96	26-Apr-05	10:04 AM	5.52	1.17	456.07
			04-May-05	1:02 PM	5.94	1.17	455.65
			10-May-05	7:04 AM	4.79	1.17	456.81
			18-May-05	8:52 AM	5.16	1.17	456.43
			25-May-05	9:20 AM	5.00	1.17	456.61
			01-Jun-05	12:24 PM	5.65	1.17	455.97
			08-Jun-05	8:23 AM	4.96	1.17	456.67
			21-Jun-05	10:08 AM	5.25	1.17	456.34
			07-Jul-05	9:22 AM	5.02	1.07	456.50
			14-Jul-05	6:52 AM	4.63	1.07	456.86
			27-Jul-05	5:21 AM	5.49	1.07	456.05
			10-Aug-05	5:17 AM	5.77	1.07	455.71
			15-Aug-05	5:58 AM	6.20	1.07	455.34
			31-Aug-05	6:30 AM	5.86	1.07	455.68
			07-Sep-05	8:41 AM	5.98	1.07	455.55
			20-Sep-05	6:48 AM	5.60	1.07	455.86
			05-Oct-05	11:00 AM	6.90	1.01	454.61
			03-Nov-05	9:25 AM	6.74	1.01	454.78
			16-Nov-05	10:50 AM	7.15	1.01	454.37
			30-Nov-05	10:35 AM	7.23	1.01	454.25
			14-Dec-05	12:48 PM	8.24	1.01	453.25
			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	7.81	1.14	453.84
			22-Feb-06	2:10 PM	---	1.14	---
			08-Mar-06	1:35 PM	7.43	1.05	454.17
			23-Mar-06	9:04 AM	7.39	1.05	454.08
MW-35-60	57	484.19	15-Mar-05	12:04 PM	32.00	0.35	452.16
			13-Jun-05	11:53 AM	27.95	0.41	456.22
			07-Oct-05	11:56 AM	29.35	0.44	454.82
			14-Dec-05	9:45 AM	30.47	0.44	453.71
			08-Mar-06	9:05 AM	28.84	0.44	455.34
			14-Mar-06	1:46 PM	29.22	0.41	454.96
MW-35-135	159	483.57	15-Mar-05	12:20 PM	31.38	0.71	452.36
			13-Jun-05	12:44 PM	28.00	0.67	455.73
			07-Oct-05	11:06 AM	28.98	0.70	454.75
			14-Dec-05	10:26 AM	30.02	0.70	453.78
			10-Mar-06	12:27 PM	29.70	0.59	453.97
MW-36-20	23	469.32	08-Mar-05	9:11 AM	18.01	1.11	451.33
		469.26	03-May-05	8:40 AM	13.40	1.90	455.96
			03-Oct-05	12:12 PM	14.96	0.71	454.32
			15-Dec-05	12:27 PM	16.56	0.71	452.71
			07-Mar-06	9:14 AM	---	1.50	---
MW-36-40	43	469.64	08-Mar-05	11:03 AM	18.01	0.74	451.68
		469.61	05-May-05	11:33 AM	14.10	0.62	455.55

TABLE 8

Manual Water Level Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-36-40	43	469.61	03-Oct-05	10:25 AM	15.06	0.64	454.60
			15-Dec-05	10:42 AM	17.00	0.64	452.65
			07-Mar-06	11:42 AM	15.34	0.83	454.35
MW-36-50	53	469.65	08-Mar-05	10:02 AM	18.00	0.68	451.71
		469.60	05-May-05	12:07 PM	14.17	0.54	455.45
			03-Oct-05	12:34 PM	15.00	0.44	454.60
			15-Dec-05	9:57 AM	17.01	0.44	452.59
			07-Mar-06	10:50 AM	15.14	0.60	454.51
MW-36-70	72	469.31	08-Mar-05	12:02 PM	17.70	0.63	451.69
		469.25	03-May-05	10:02 AM	13.44	0.73	455.93
			03-Oct-05	10:59 AM	14.78	0.53	454.52
			15-Dec-05	1:07 PM	16.64	0.53	452.65
			09-Feb-06	12:30 PM	15.78	0.58	453.53
			07-Mar-06	9:54 AM	14.75	0.58	454.57
MW-36-90	92	469.68	09-Mar-05	9:15 AM	18.65	1.27	451.47
		469.61	03-May-05	10:57 AM	14.53	1.16	455.48
			25-Jul-05	9:53 AM	14.19	1.16	455.84
			17-Aug-05	6:50 AM	14.73	1.16	455.30
			08-Sep-05	7:30 AM	14.74	1.16	455.28
			03-Oct-05	9:17 AM	9.25	0.98	460.69
			02-Nov-05	11:10 AM	16.07	0.98	453.84
			15-Dec-05	11:13 AM	17.45	0.98	452.47
			12-Jan-06	12:10 PM	17.12	0.98	452.78
			09-Feb-06	12:13 PM	16.92	0.98	453.00
			07-Mar-06	12:25 PM	16.22	0.98	453.71
MW-36-100	110	469.69	09-Mar-05	1:28 PM	18.88	0.89	451.10
			22-Mar-05	2:41 PM	16.69	0.97	453.35
		469.64	04-Apr-05	11:28 AM	16.08	1.30	454.13
			20-Apr-05	8:34 AM	14.35	1.30	455.87
			03-May-05	12:35 PM	14.82	1.30	455.40
			18-May-05	1:22 PM	14.94	1.30	455.31
			02-Jun-05	9:22 AM	14.26	1.30	455.96
			19-Jul-05	8:18 AM	13.86	1.30	456.39
			17-Aug-05	9:30 AM	15.00	1.30	455.24
			08-Sep-05	6:41 AM	14.81	1.30	455.43
			05-Oct-05	9:57 AM	15.35	1.10	454.71
			03-Nov-05	11:03 AM	15.54	1.10	454.55
			13-Dec-05	2:02 PM	17.06	1.10	453.03
			12-Jan-06	12:56 PM	17.28	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
MW-37D	227	486.19	11-Mar-05	10:48 AM	33.28	0.75	453.07
			18-May-05	6:18 AM	31.25	0.93	455.35
			15-Jun-05	11:55 AM	30.88	0.93	455.72
			04-Oct-05	11:45 AM	31.25	0.89	455.29
			14-Dec-05	1:40 PM	31.92	0.89	454.64

TABLE 8

Manual Water Level Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-37D	227	486.19	13-Mar-06	10:40 AM	31.70	0.89	454.86
MW-37S	87	485.97	11-Mar-05	10:15 AM	34.29	0.20	451.53
			07-Apr-05	12:57 PM	32.20	0.25	453.63
			18-May-05	6:20 AM	31.00	0.25	454.83
			15-Jun-05	10:53 AM	30.67	0.25	455.15
			04-Oct-05	11:43 AM	31.00	0.25	454.82
			14-Dec-05	2:26 PM	31.83	0.25	454.00
			13-Mar-06	10:39 AM	31.50	0.25	454.33
MW-38D	191	525.31	11-Mar-05	9:18 AM	72.34	1.36	453.58
			18-May-05	6:29 AM	70.93	1.32	454.96
			17-Jun-05	8:46 AM	70.48	1.32	455.40
			07-Oct-05	7:34 AM	70.45	1.24	455.37
			10-Mar-06	8:40 AM	70.95	1.40	455.01
MW-38S	98	525.51	11-Mar-05	8:40 AM	72.10	0.22	453.34
			18-May-05	6:27 AM	70.72	0.25	454.73
			17-Jun-05	8:01 AM	70.25	0.25	455.19
			07-Oct-05	8:27 AM	70.18	0.24	455.26
			10-Mar-06	9:18 AM	70.70	0.24	454.74
MW-39-40	42	468.02	09-Mar-05	11:18 AM	16.77	0.50	451.25
			05-May-05	8:59 AM	12.25	0.38	455.75
			16-Jun-05	10:10 AM	12.00	0.38	456.01
			04-Oct-05	7:40 AM	13.50	0.38	454.50
			16-Dec-05	10:30 AM	15.33	0.38	452.67
			07-Mar-06	2:28 PM	13.94	0.34	454.06
MW-39-50	55	467.93	09-Mar-05	10:59 AM	16.75	0.80	451.26
			06-Apr-05	7:55 AM	13.21	0.67	454.77
			03-May-05	12:45 PM	13.80	0.67	454.18
			16-Jun-05	12:35 PM	12.00	0.67	455.99
			04-Oct-05	10:14 AM	13.86	0.85	454.16
			16-Dec-05	9:36 AM	15.33	0.85	452.79
			12-Jan-06	9:57 AM	15.04	0.85	453.00
			08-Mar-06	9:50 AM	13.74	0.85	454.30
MW-39-60	66	468.00	09-Mar-05	12:35 PM	16.92	0.67	451.15
			05-May-05	9:41 AM	12.69	0.77	455.42
			16-Jun-05	11:43 AM	12.00	0.77	456.13
			04-Oct-05	11:03 AM	14.16	0.90	453.99
			16-Dec-05	8:52 AM	15.51	0.90	452.65
			08-Mar-06	1:12 PM	14.31	0.80	453.82
MW-39-70	72	468.02	09-Mar-05	1:09 PM	17.04	0.63	451.04
			05-May-05	8:10 AM	12.89	0.65	455.21
			16-Jun-05	10:53 AM	12.00	0.65	456.11
			04-Oct-05	8:21 AM	14.19	0.85	453.99
			16-Dec-05	11:02 AM	15.79	0.85	452.38
			10-Feb-06	10:57 AM	15.20	0.66	452.91
			08-Mar-06	12:25 PM	14.59	0.66	453.52

TABLE 8

Manual Water Level Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-39-80	83	467.92	09-Mar-05	3:07 PM	17.01	0.97	451.14
			03-May-05	1:16 PM	13.35	0.90	454.78
			16-Jun-05	1:10 PM	12.00	0.90	456.16
			25-Jul-05	8:40 AM	12.55	0.90	455.60
			17-Aug-05	5:56 AM	13.22	0.90	454.93
			06-Sep-05	6:45 AM	13.36	0.90	454.79
			04-Oct-05	9:03 AM	14.23	1.03	453.96
			02-Nov-05	10:42 AM	14.55	1.03	453.65
			15-Dec-05	2:02 PM	15.74	1.03	452.46
			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
MW-39-100	118	468.01	10-Mar-05	1:48 PM	16.80	0.89	451.50
			06-Apr-05	11:35 AM	14.10	1.30	454.51
			09-May-05	9:30 AM	13.07	1.30	455.54
			17-Jun-05	9:50 AM	13.60	1.30	455.00
			19-Jul-05	7:02 AM	12.52	1.40	456.22
			17-Aug-05	5:10 AM	13.45	1.40	455.28
			06-Sep-05	7:48 AM	13.62	1.40	455.11
			04-Oct-05	12:50 PM	14.79	1.20	453.73
			02-Nov-05	9:32 AM	14.68	1.20	453.88
			13-Dec-05	2:50 PM	15.66	1.20	452.89
			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
MW-40D	266	566.08	10-Mar-05	10:54 AM	112.74	0.89	453.56
			18-May-05	7:09 AM	111.26	0.97	455.13
			16-Jun-05	8:48 AM	110.81	0.97	455.57
			05-Oct-05	8:48 AM	110.90	0.95	455.46
			13-Dec-05	9:36 AM	111.25	0.95	455.12
			08-Mar-06	9:03 AM	107.73	1.11	458.82
			08-Mar-06	11:31 AM	107.73	0.99	458.69
MW-40S	134	566.04	10-Mar-05	9:46 AM	112.30	0.10	453.66
			07-Apr-05	7:50 AM	112.00	0.12	453.96
			18-May-05	7:11 AM	110.80	0.12	455.16
			16-Jun-05	8:00 AM	110.36	0.12	455.59
			05-Oct-05	9:38 AM	110.30	0.12	455.65
			13-Dec-05	8:38 AM	110.86	0.12	455.10
			08-Mar-06	9:54 AM	108.36	0.12	457.59
			08-Mar-06	9:03 AM	108.36	0.13	457.59
MW-41D	313	479.42	11-Mar-05	8:55 AM	26.25	1.43	454.88
			18-May-05	6:25 AM	24.36	1.36	456.65
			14-Jun-05	8:10 AM	23.98	1.36	456.98
			05-Oct-05	11:38 AM	24.55	1.35	456.36
			16-Dec-05	10:34 AM	25.08	1.35	455.84
			15-Mar-06	11:15 AM	24.70	1.25	456.01

TABLE 8

Manual Water Level Measurements March 2005 through March 2006

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Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-41M	192	479.83	11-Mar-05	10:08 AM	26.14	1.12	454.37
			18-May-05	6:26 AM	24.16	1.11	456.35
			14-Jun-05	9:31 AM	23.83	1.11	456.65
			05-Oct-05	11:37 AM	24.40	0.98	455.91
			16-Dec-05	11:44 AM	25.14	0.98	455.17
			13-Mar-06	1:35 PM	24.66	0.90	455.55
MW-41S	62	480.07	10-Mar-05	2:51 PM	26.87	0.49	453.19
			18-May-05	6:27 AM	24.13	0.16	455.84
			14-Jun-05	10:21 AM	23.86	0.16	456.10
			05-Oct-05	11:36 AM	24.58	0.28	455.41
			16-Dec-05	12:30 PM	25.57	0.28	454.43
			08-Mar-06	8:37 AM	24.75	0.50	455.31
			13-Mar-06	2:36 PM	24.72	0.25	455.27
MW-42-30	32	463.81	16-Mar-05	11:02 AM	12.10	0.88	451.78
			07-Oct-05	8:40 AM	9.34	1.04	454.57
			15-Dec-05	1:07 PM	11.28	1.04	452.62
			07-Mar-06	12:14 PM	9.63	0.98	454.27
MW-42-55	56	463.87	16-Mar-05	11:45 AM	12.12	0.93	451.92
			07-Oct-05	7:58 AM	9.32	1.08	454.77
			15-Dec-05	12:43 PM	11.25	1.08	452.83
			07-Mar-06	1:07 PM	9.78	0.92	454.26
MW-42-65	80	463.37	16-Mar-05	12:15 PM	11.75	1.21	452.02
			07-Oct-05	7:24 AM	8.86	1.09	454.86
			15-Dec-05	12:11 PM	10.77	1.04	452.92
			07-Mar-06	2:35 PM	9.38	1.17	454.38
MW-43-25	27	462.54	07-Mar-05	10:34 AM	10.62	0.10	451.90
			15-Mar-05	10:10 AM	10.72	0.09	451.80
			20-Jun-05	10:30 AM	6.23	0.10	456.29
			04-Oct-05	8:48 AM	7.90	0.07	454.61
			16-Dec-05	2:17 PM	9.56	0.07	452.96
			10-Mar-06	8:34 AM	7.26	0.09	455.26
MW-43-75	77	462.71	07-Mar-05	10:37 AM	10.74	0.88	452.24
			15-Mar-05	10:43 AM	10.27	0.88	452.72
			20-Jun-05	8:21 AM	6.18	0.91	456.84
			26-Jul-05	7:31 AM	7.05	0.91	455.98
			16-Aug-05	6:45 AM	7.38	0.91	455.64
			08-Sep-05	9:45 AM	7.95	0.91	455.05
			04-Oct-05	8:25 AM	8.22	0.93	454.75
			03-Nov-05	12:02 PM	8.74	0.93	454.28
			16-Dec-05	2:07 PM	9.89	0.93	453.09
			11-Jan-06	11:00 AM	9.32	0.96	453.73
			10-Feb-06	9:20 AM	8.65	0.96	454.41
			10-Mar-06	9:16 AM	7.69	0.96	455.38
MW-43-90	102	462.76	07-Mar-05	10:39 AM	10.94	1.32	452.46
			15-Mar-05	11:13 AM	11.11	1.32	452.30

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Monitoring Wells							
MW-43-90	102	462.76	20-Jun-05	8:21 AM	6.18	1.33	457.27
			26-Jul-05	5:39 AM	6.56	1.31	456.91
			16-Aug-05	8:12 AM	7.73	1.31	455.72
			08-Sep-05	9:41 AM	8.15	1.31	455.28
			04-Oct-05	7:52 AM	8.36	1.20	454.93
			03-Nov-05	12:30 PM	9.04	1.20	454.31
			16-Dec-05	1:00 PM	10.05	1.20	453.24
			11-Jan-06	9:07 AM	9.43	1.42	454.09
			10-Feb-06	9:47 AM	9.68	1.42	453.85
			10-Mar-06	9:48 AM	8.05	1.42	455.50
OW-3D	274	558.63	18-May-05	6:06 AM	102.60	0.29	455.62
			06-Oct-05	10:12 AM	102.14	0.45	456.26
			09-Mar-06	8:30 AM	102.41	0.45	456.00
OW-3M	202	558.90	18-May-05	6:05 AM	102.95	0.24	455.70
			06-Oct-05	11:06 AM	102.48	0.33	456.23
			09-Mar-06	9:17 AM	102.61	0.33	456.09
OW-3S	118	558.58	18-May-05	6:03 AM	102.61	0.13	455.92
			06-Oct-05	11:53 AM	102.18	0.13	456.35
			08-Mar-06	8:07 AM	102.53	0.11	456.00
			09-Mar-06	9:55 AM	102.33	0.11	456.20
PE-1	97	469.65	03-Oct-05	9:49 AM	15.20	0.75	454.68
			13-Dec-05	8:50 AM	16.42	0.75	453.43
PGE-6	181	563.32	18-May-05	6:20 AM	107.93	0.26	455.24
			12-Oct-05	5:53 AM	107.34	0.28	455.84
PGE-7	332	563.89	18-May-05	6:16 AM	108.65	0.88	455.78
			13-Oct-05	9:37 AM	108.11	1.00	456.52
PGE-8	564	596.01	18-May-05	5:52 AM	140.75	1.11	456.71
TW-1	240	620.55	11-Oct-05	10:43 AM	164.53	0.35	455.87
Other Wells not in GMP							
CW-1D	322	566.46	18-May-05	6:37 AM	110.86	0.71	455.88
CW-1M	191	566.07	18-May-05	6:36 AM	110.35	0.24	455.56
CW-2D	355	549.43	18-May-05	6:33 AM	93.89	0.93	456.27
CW-2M	202	549.45	18-May-05	6:35 AM	93.60	0.42	455.79
CW-3D	342	534.14	18-May-05	6:40 AM	78.84	1.17	456.50
CW-3M	224	534.10	18-May-05	6:42 AM	78.31	0.56	455.83
CW-4D	305	518.55	18-May-05	6:11 AM	63.11	0.95	456.14
CW-4M	171	518.55	18-May-05	6:12 AM	62.69	0.40	455.77
MW-1	217	661.76	18-May-05	6:27 AM	206.81	0.04	454.91
MW-3	205	650.51	18-May-05	6:02 AM	195.92	0.09	454.56
			08-Mar-06	8:19 AM	193.80	0.09	456.67
MW-4	176	625.73	18-May-05	6:14 AM	170.41	0.07	455.29
			08-Mar-06	8:29 AM	170.05	0.07	455.66

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Manual Water Level Measurements March 2005 through March 2006

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Other Wells not in GMP							
MW-5	186	635.69	18-May-05	6:07 AM	180.10	0.09	455.56
			08-Mar-06	8:23 AM	179.68	0.09	455.99
MW-6	195	642.84	18-May-05	6:23 AM	187.22	0.04	455.58
			08-Mar-06	8:36 AM	186.74	0.04	456.07
MW-7	185	631.91	18-May-05	6:20 AM	176.86	0.07	455.02
			08-Mar-06	8:33 AM	176.48	0.07	455.40
MW-8	180	627.54	18-May-05	6:07 AM	171.75	0.07	455.75
			08-Mar-06	8:26 AM	171.37	0.07	456.14
MWP-8	213	677.48	18-May-05	6:17 AM	189.51	0.00	---
MWP-10	237	675.81	18-May-05	6:33 AM	208.64	0.00	---
MWP-12	143	663.49	18-May-05	6:43 AM	107.85	0.00	555.52
OW-1D	281	550.36	18-May-05	6:30 AM	94.83	0.65	455.58
OW-1M	189	550.36	18-May-05	6:32 AM	94.61	0.34	455.60
OW-1S	114	550.15	18-May-05	6:31 AM	94.37	0.17	455.75
			08-Mar-06	8:17 AM	94.28	0.14	455.83
OW-2D	342	549.01	18-May-05	6:27 AM	93.82	0.96	455.80
OW-2M	211	548.52	18-May-05	6:24 AM	92.88	0.50	455.59
OW-2S	121	548.75	18-May-05	6:26 AM	92.95	0.14	455.73
			08-Mar-06	8:15 AM	92.96	0.12	455.71
OW-5D	352	552.35	18-May-05	6:20 AM	96.93	0.66	455.49
OW-5M	254	551.75	18-May-05	6:19 AM	96.07	0.46	455.58
OW-5S	113	551.75	18-May-05	6:18 AM	95.95	0.13	455.74
			08-Mar-06	8:20 AM	95.78	0.11	455.91
Surface Water Stations							
I-3	---	460.30	01-Mar-05	12:18 PM	7.80	0.00	452.50
			07-Apr-05	8:08 AM	4.27	0.00	456.03
			04-May-05	12:57 PM	5.35	0.00	454.95
			18-Aug-05	7:09 AM	4.55	0.00	455.75
			05-Oct-05	7:53 AM	5.37	0.00	454.93
			11-Jan-06	12:10 PM	6.85	0.00	453.45
			10-Feb-06	8:57 AM	---	0.00	---
			06-Mar-06	9:15 AM	5.21	0.00	455.09
RRB	---	476.63	01-Mar-05	2:38 PM	23.09	0.00	453.54
			07-Apr-05	9:03 AM	20.35	0.00	456.28
			14-Jun-05	11:15 AM	20.99	0.00	455.64
			18-Aug-05	7:48 AM	20.66	0.00	455.97
			05-Oct-05	9:59 AM	22.14	0.00	454.49
			06-Mar-06	1:40 PM	21.90	0.00	454.73

TABLE 8

Manual Water Level Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time	Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)

NOTES:

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

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

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.

I-3 water elevation data not available from 9/1/05 to 10/4/05 due to transducer damage from river.

Surface water station RRB was not sampled in December 2005 due to the location being dry.

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

Field Water Quality Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-9	08-Mar-05	3,490	29.51	7.44	164	8.65
	07-Apr-05	---	30.60	7.33	117	6.59
	16-Jun-05	2,760	36.29	7.48	78	4.93
	03-Oct-05	2,550	30.00	7.49	142	5.85
	07-Mar-06	3,180	28.01	6.96	227	6.63
MW-10	08-Mar-05	3,850	29.10	7.35	124	2.92
	16-Jun-05	3,370	31.69	7.57	59	3.71
	03-Oct-05	1,610	29.10	7.73	136	5.23
	12-Dec-05	2,470	28.20	7.46	165	5.94
	06-Mar-06	2,720	27.03	7.18	227	4.90
MW-11	08-Mar-05	2,670	29.36	7.31	133	7.02
	16-Jun-05	2,230	32.54	7.46	65	5.60
	03-Oct-05	2,190	29.70	7.42	142	5.91
	12-Dec-05	2,460	27.80	7.16	181	8.10
	06-Mar-06	2,600	28.66	7.26	235	6.98
MW-12	10-Mar-05	---	28.43	8.90	34	7.04
	06-Apr-05	---	28.30	8.27	56	6.34
	13-Jun-05	4,060	29.70	8.39	60	6.97
	16-Sep-05	3,290	29.00	8.49	---	6.58
	04-Oct-05	3,040	28.20	8.63	55	6.13
	13-Dec-05	3,260	27.74	9.49	97	6.99
	18-Apr-06	3,460	28.60	---	91	7.28
MW-13	11-Mar-05	1,950	29.17	7.47	69	5.57
	14-Jun-05	1,820	31.28	7.42	65	8.47
	04-Oct-05	1,910	28.44	7.74	16	6.41
	13-Dec-05	2,000	28.05	8.43	76	6.73
	08-Mar-06	---	28.67	7.45	163	6.90
MW-14	09-Mar-05	1,640	28.90	7.68	160	6.52
	07-Apr-05	---	28.70	7.66	75	6.58
	15-Jun-05	1,460	33.56	7.30	177	---
	06-Oct-05	1,660	28.53	7.82	26	7.12
	15-Dec-05	1,640	27.60	7.74	106	7.54
	09-Mar-06	1,990	28.63	7.43	183	7.58
MW-15	09-Mar-05	1,470	29.57	7.64	94	8.33
	17-Jun-05	2,220	30.90	7.79	-30	7.73
	06-Oct-05	1,670	29.54	7.26	-19	8.11
	07-Mar-06	2,590	29.84	7.53	81	7.73
MW-16	06-Oct-05	1,210	29.29	7.81	-74	6.79
	07-Mar-06	1,360	29.26	7.80	62	7.44
MW-17	05-Oct-05	1,590	30.70	7.63	72	6.51
	09-Mar-06	2,440	30.94	7.44	133	6.52
MW-18	09-Mar-05	1,290	28.60	7.58	150	8.30
	15-Jun-05	1,540	30.18	7.24	165	---
	06-Oct-05	1,420	28.56	7.68	62	8.08

TABLE 9

Field Water Quality Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-18	09-Mar-06	1,860	28.92	7.36	152	8.08
MW-19	07-Mar-05	2,200	28.43	7.49	100	6.67
	14-Jun-05	2,170	29.30	7.61	65	6.80
	04-Oct-05	2,150	28.50	7.75	30	6.87
	12-Dec-05	2,140	26.90	7.51	153	7.68
	09-Mar-06	3,850	28.42	7.33	227	7.43
MW-20-70	10-Mar-05	---	29.40	7.46	151	8.77
	07-Apr-05	3,820	29.30	7.75	92	6.63
	15-Jun-05	3,160	29.69	7.72	152	6.85
	11-Oct-05	3,330	28.66	7.53	151	6.90
	15-Dec-05	3,210	27.60	7.59	149	7.97
	10-Mar-06	5,830	28.01	7.49	228	7.32
MW-20-100	10-Mar-05	7,100	29.70	7.64	110	0.40
	15-Jun-05	3,870	29.50	7.77	136	3.44
	11-Oct-05	4,140	28.96	7.45	157	1.54
	15-Dec-05	3,980	28.00	7.62	140	3.03
	10-Mar-06	4,360	28.46	7.33	198	3.77
MW-20-130	09-Mar-05	12,800	29.00	6.63	126	0.02
	07-Apr-05	11,000	29.40	7.88	99	4.89
	15-Jun-05	10,600	29.65	7.73	145	4.66
	07-Oct-05	12,300	30.31	7.65	53	2.46
	16-Dec-05	11,700	27.35	7.99	123	3.32
	10-Mar-06	14,500	28.67	7.48	213	3.49
MW-21	08-Mar-05	11,300	28.01	7.04	-86	6.00
	14-Jun-05	12,000	30.30	7.30	81	6.80
	05-Oct-05	11,400	28.26	7.24	-149	2.42
	14-Dec-05	12,100	26.22	7.94	-90	5.35
	09-Mar-06	15,100	26.71	6.81	---	4.20
MW-22	10-Mar-05	46,300	22.00	7.13	-150	4.74
	17-Jun-05	33,700	23.99	6.93	-57	3.23
	04-Oct-05	35,500	32.96	6.66	-86	2.51
	16-Dec-05	31,200	24.64	6.65	-90	2.31
	15-Mar-06	34,800	19.89	6.12	---	8.54
MW-23	08-Mar-05	19,100	27.98	7.01	-48	3.64
	14-Jun-05	19,500	28.70	7.43	23	7.80
	04-Oct-05	19,400	27.90	7.25	-19	2.19
	14-Dec-05	15,800	26.35	8.13	94	8.54
	08-Mar-06	21,100	27.87	7.15	199	5.47
MW-24A	07-Mar-05	3,460	28.76	7.51	49	3.09
	16-Jun-05	3,470	31.73	7.70	52	2.70
	03-Oct-05	3,040	29.20	7.70	157	3.26
	06-Mar-06	3,140	28.11	7.47	239	5.17
MW-24B	07-Mar-05	14,300	29.65	7.87	-2	1.70
	16-Jun-05	13,100	35.51	7.93	-4	2.20

TABLE 9

Field Water Quality Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-24B	03-Oct-05	14,000	30.20	7.93	153	3.19
	07-Mar-06	17,200	30.96	7.73	199	2.59
MW-24BR	08-Mar-05	15,200	30.04	7.72	-351	1.31
	15-Dec-05	18,500	28.20	7.71	-291	2.25
	16-Mar-06	16,400	24.96	7.05	-230	3.75
MW-25	09-Mar-05	1,570	29.54	7.42	181	8.63
	07-Apr-05	---	29.70	7.41	95	7.30
	14-Jun-05	1,620	30.30	7.56	107	6.90
	04-Oct-05	1,510	29.23	7.65	55	6.72
	14-Dec-05	1,220	28.85	8.40	156	7.97
	09-Mar-06	2,750	29.19	7.28	210	7.40
MW-26	08-Mar-05	3,450	29.77	7.47	123	10.03
	13-Jun-05	3,820	32.12	7.49	119	9.16
	04-Oct-05	3,380	29.90	7.54	45	8.79
	12-Dec-05	3,440	29.00	7.33	161	9.93
	08-Mar-06	3,840	29.14	7.98	170	9.16
MW-27-20	08-Mar-05	2,180	17.60	7.57	-178	0.00
	04-Apr-05	2,580	18.50	7.58	-194	0.00
	04-May-05	1,280	19.10	7.54	-176	0.40
	18-Jul-05	1,040	34.94	7.68	-190	1.08
	05-Oct-05	1,170	22.21	7.10	-158	1.82
	14-Dec-05	1,120	18.69	7.58	-171	2.19
	06-Mar-06	910	18.16	8.01	-153	0.38
MW-27-60	01-Mar-05	13,400	22.20	7.36	-143	5.09
	08-Mar-05	18,000	21.30	7.22	-144	1.06
	23-Mar-05	12,700	21.98	7.35	-124	1.74
	29-Mar-05	16,800	22.90	7.29	-154	0.26
	05-Apr-05	16,700	22.30	7.24	-157	0.05
	12-Apr-05	13,800	22.30	7.16	-146	0.20
	19-Apr-05	---	21.38	7.93	---	---
	26-Apr-05	22,100	22.48	7.24	-111	7.00
	04-May-05	14,400	23.20	7.28	-114	0.40
	18-Jul-05	13,500	34.25	7.19	-125	2.62
	05-Oct-05	13,200	21.69	6.48	-97	3.16
	15-Dec-05	10,000	20.71	6.52	-134	2.89
	07-Mar-06	13,700	21.55	7.76	-118	2.46
MW-27-85	01-Mar-05	18,600	22.50	7.61	-155	4.94
	08-Mar-05	22,000	22.70	7.47	-152	0.15
	23-Mar-05	16,100	22.48	7.50	-145	1.03
	29-Mar-05	19,700	23.50	7.21	-167	0.52
	05-Apr-05	19,700	22.30	7.11	-134	1.97
	12-Apr-05	16,900	22.60	7.09	-134	0.09
	19-Apr-05	---	21.52	7.90	---	---
	26-Apr-05	18,100	21.84	7.41	-138	5.72
	04-May-05	18,500	23.00	7.12	-128	0.40

TABLE 9

Field Water Quality Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-27-85	19-May-05	19,600	23.00	7.60	-131	1.00
	02-Jun-05	19,500	23.00	7.08	-100	0.95
	19-Jul-05	19,100	27.90	6.90	-106	0.88
	16-Aug-05	13,700	23.60	7.14	-156	1.33
	08-Sep-05	20,500	30.50	7.14	-158	1.70
	05-Oct-05	18,100	22.49	6.51	-82	2.11
	03-Nov-05	23,100	22.04	7.17	-150	1.13
	15-Dec-05	14,300	21.18	6.34	-124	2.76
	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
MW-28-25	10-Mar-05	1,400	23.52	7.62	60	5.63
	04-Apr-05	1,590	22.40	7.31	-108	0.10
	03-May-05	1,280	23.00	7.41	-59	0.40
	15-Jun-05	1,460	23.70	7.71	-54	2.70
	13-Jul-05	1,690	24.60	7.51	19	4.92
	06-Oct-05	1,300	25.22	6.98	-35	2.01
	16-Dec-05	1,390	23.10	7.16	-69	2.52
	09-Mar-06	1,140	21.53	7.67	-54	3.52
MW-28-90	07-Mar-05	12,300	23.30	7.83	-190	0.05
	22-Mar-05	12,200	23.00	7.81	-203	0.18
	04-Apr-05	12,600	22.10	7.56	-172	0.44
	20-Apr-05	9,990	22.14	7.88	-93	3.94
	03-May-05	10,600	23.40	7.68	-208	0.40
	19-May-05	9,110	24.40	7.60	-147	0.80
	02-Jun-05	---	23.70	7.62	-141	1.01
	15-Jun-05	9,410	23.50	8.19	-205	2.50
	01-Jul-05	12,700	28.40	7.67	-174	1.76
	13-Jul-05	8,850	26.02	7.76	-142	4.31
	18-Aug-05	9,740	22.10	7.60	-178	1.15
	09-Sep-05	8,190	22.70	7.62	-190	1.71
	06-Oct-05	9,070	21.86	6.94	-138	2.02
	02-Nov-05	9,720	22.62	7.65	-183	1.39
	16-Dec-05	8,430	21.80	7.42	-176	2.47
	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
MW-29	09-Mar-05	32,900	25.70	7.02	-127	1.72
	06-Apr-05	22,700	25.20	7.01	-128	2.03
	05-May-05	4,840	27.70	7.38	-142	0.05
	15-Jun-05	6,580	29.80	7.10	-108	3.10
	04-Oct-05	5,240	26.71	7.31	-110	3.20
	12-Dec-05	4,280	24.07	7.89	-40	5.49
	13-Apr-06	4,220	24.93	7.77	-142	4.15
MW-30-30	10-Mar-05	65,900	24.62	7.25	-84	4.11
	06-Apr-05	38,000	26.70	6.90	-143	0.32

TABLE 9

Field Water Quality Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-30-30	09-May-05	47,700	27.20	6.87	-131	0.31
	07-Oct-05	45,000	27.60	6.94	-146	2.54
	15-Dec-05	38,900	26.41	6.29	-100	2.95
	13-Mar-06	55,600	25.61	7.39	-99	1.15
MW-30-50	10-Mar-05	9,000	26.87	7.55	-230	4.66
	06-Apr-05	14,000	26.40	7.22	-252	0.49
	09-May-05	14,200	27.40	7.15	-100	0.33
	07-Oct-05	12,300	26.80	7.22	-236	2.81
	16-Dec-05	8,840	25.10	7.16	-263	2.49
	09-Mar-06	8,800	25.55	7.52	-81	2.42
MW-31-60	09-Mar-05	2,860	28.99	7.64	192	6.87
	07-Apr-05	---	30.50	7.54	102	5.25
	13-Jun-05	3,060	29.52	7.70	122	8.00
	06-Oct-05	2,990	28.73	7.80	54	6.36
	13-Dec-05	2,870	27.95	8.46	119	6.75
	15-Mar-06	2,750	28.69	7.68	217	7.01
MW-31-135	10-Mar-05	12,500	30.00	7.86	42	1.49
	13-Jun-05	14,600	30.90	7.85	42	4.46
	06-Oct-05	10,100	29.62	8.00	-4	2.02
	14-Dec-05	7,980	27.90	8.77	124	4.13
	15-Mar-06	13,400	28.84	7.75	33	3.05
MW-32-20	09-Mar-05	29,900	22.80	6.84	-161	0.03
	04-Apr-05	26,000	25.30	6.95	-178	0.02
	09-May-05	20,600	24.70	6.73	-121	0.18
	17-Jun-05	15,500	25.70	7.13	-188	2.40
	04-Oct-05	36,000	29.51	6.69	-115	2.35
	16-Dec-05	33,900	24.50	7.19	-107	2.65
	10-Mar-06	---	24.08	7.36	-125	0.44
MW-32-35	09-Mar-05	12,400	25.80	7.23	-183	0.07
	04-Apr-05	9,800	25.90	7.36	-197	0.10
	09-May-05	13,600	26.50	7.17	-164	0.24
	17-Jun-05	12,800	27.70	7.57	-202	2.30
	04-Oct-05	11,600	25.55	7.25	-159	2.06
	16-Dec-05	11,200	24.68	7.71	-141	2.43
	10-Mar-06	9,570	25.23	7.90	-161	0.09
MW-33-40	09-Mar-05	7,050	27.90	7.97	-125	3.28
	04-Apr-05	9,900	26.60	8.15	-160	0.73
	05-May-05	5,760	28.00	8.22	-90	0.55
	17-Jun-05	5,460	27.80	8.61	-94	5.40
	12-Dec-05	---	22.02	8.23	45	4.85
MW-33-90	09-Mar-05	13,700	28.30	7.59	-101	0.66
	22-Mar-05	14,600	28.10	7.73	-92	4.74
	04-Apr-05	13,300	27.40	7.72	-98	0.34
	19-Apr-05	8,830	28.04	7.99	---	4.00
	05-May-05	8,250	29.00	7.75	-244	0.28

TABLE 9

Field Water Quality Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-33-90	18-May-05	17,200	28.80	7.50	-141	1.61
	01-Jun-05	12,000	29.50	7.61	-53	0.41
	16-Jun-05	9,500	29.90	8.22	-209	2.10
	20-Jul-05	8,440	29.80	7.49	-23	0.61
	06-Oct-05	9,210	28.40	7.18	-33	1.86
	13-Dec-05	9,310	26.60	7.66	-43	2.29
	08-Mar-06	10,200	26.82	8.17	-42	0.26
MW-33-150	02-Mar-05	15,900	26.50	7.70	-120	4.57
	16-Mar-05	21,600	26.00	7.30	-175	1.60
	17-Jun-05	18,300	29.40	7.80	-172	3.00
	20-Jul-05	16,100	29.09	7.45	-59	0.70
	17-Aug-05	17,000	28.80	7.53	-72	1.32
	09-Sep-05	17,000	28.60	7.60	-108	1.68
	06-Oct-05	15,800	28.83	7.19	-41	2.05
	02-Nov-05	20,800	27.78	7.55	-81	1.41
	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
MW-33-210	16-Mar-05	25,300	27.00	7.59	-103	0.58
	16-Jun-05	22,400	30.60	7.87	-216	2.00
	20-Jul-05	19,200	29.14	7.15	-40	0.76
	17-Aug-05	19,900	28.70	7.29	-88	1.24
	06-Sep-05	22,600	29.10	7.23	-109	1.68
	06-Oct-05	18,800	29.14	6.96	-30	1.78
	02-Nov-05	24,900	28.15	7.40	-73	1.39
	12-Dec-05	21,900	27.15	7.90	40	3.60
	10-Jan-06	24,200	27.49	7.77	13	3.17
	07-Feb-06	22,800	27.50	7.40	-14	2.70
	06-Mar-06	16,600	27.64	7.98	-37	0.21
MW-34-55	10-Mar-05	9,000	23.12	7.66	-191	5.13
	05-Apr-05	12,400	23.10	7.35	-110	0.68
	05-May-05	8,860	22.60	7.37	-99	0.06
	15-Jul-05	9,180	26.03	7.46	-77	3.60
	05-Oct-05	8,610	21.94	6.83	-93	1.69
	14-Dec-05	6,610	20.28	7.30	-124	2.08
	08-Mar-06	8,460	20.41	7.94	-106	---
MW-34-80	01-Mar-05	13,300	22.52	7.33	-127	5.14
	08-Mar-05	17,600	24.00	7.24	-84	0.04
	22-Mar-05	15,200	24.10	7.21	-83	0.16
	29-Mar-05	16,800	22.90	7.23	-214	0.00
	05-Apr-05	17,200	23.30	7.19	-207	0.01
	12-Apr-05	14,200	23.60	7.17	-86	0.08
	19-Apr-05	13,800	22.95	7.45	4	5.09
	26-Apr-05	13,700	23.56	7.34	-94	3.55
	04-May-05	15,900	23.70	7.20	-241	0.30

TABLE 9

Field Water Quality Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-34-80	18-May-05	16,000	24.40	6.99	-138	1.33
	01-Jun-05	17,800	27.30	6.98	-117	0.37
	30-Jun-05	18,300	33.70	7.28	-61	1.57
	14-Jul-05	17,900	33.40	7.11	-104	1.19
	15-Aug-05	14,600	26.90	7.12	-137	1.49
	07-Sep-05	17,100	26.90	7.12	-148	1.55
	05-Oct-05	13,800	22.34	6.67	-58	2.21
	03-Nov-05	16,300	22.72	7.12	-117	1.11
	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
MW-34-100	01-Mar-05	15,700	23.40	7.58	-86	5.04
	08-Mar-05	19,900	24.90	7.47	-60	0.41
	23-Mar-05	14,600	23.66	7.58	-98	0.76
	29-Mar-05	18,100	24.90	7.46	-96	0.46
	05-Apr-05	20,000	24.50	7.43	-115	0.31
	12-Apr-05	15,500	24.80	7.40	-61	0.18
	19-Apr-05	16,200	24.20	7.68	8	5.96
	26-Apr-05	21,000	24.12	7.60	-45	4.09
	04-May-05	18,700	24.40	7.48	-98	0.60
	10-May-05	15,800	22.59	7.37	21	3.01
	18-May-05	19,000	24.60	7.22	50	3.01
	25-May-05	18,700	25.30	7.47	-93	1.20
	01-Jun-05	20,000	25.60	7.45	-59	0.42
	08-Jun-05	20,300	23.70	7.93	-15	2.30
	21-Jun-05	20,500	27.90	7.33	-26	1.93
	07-Jul-05	18,800	32.65	7.50	-88	3.76
	14-Jul-05	20,200	29.50	7.38	-26	1.93
	27-Jul-05	17,800	27.41	7.38	-2	1.12
	10-Aug-05	19,700	24.70	7.40	-83	1.40
	15-Aug-05	16,600	25.70	7.40	-17	1.24
	31-Aug-05	16,900	28.50	7.39	-42	1.89
	07-Sep-05	19,500	27.80	7.37	-60	1.53
	20-Sep-05	14,000	30.20	7.39	-28	1.99
	05-Oct-05	15,900	24.02	6.89	-13	1.91
	03-Nov-05	19,900	23.16	7.45	-49	1.12
	16-Nov-05	16,100	23.30	7.31	-2	4.63
	30-Nov-05	19,900	22.60	7.39	-55	2.59
	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	---

TABLE 9

Field Water Quality Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-34-100	23-Mar-06	18,400	22.54	7.50	113	2.21
MW-35-60	15-Mar-05	6,510	26.63	7.89	-18	2.22
	13-Jun-05	---	29.60	7.27	-8	2.47
	07-Oct-05	7,560	27.98	7.49	-1	1.90
	14-Dec-05	5,800	25.95	8.34	95	3.97
	14-Mar-06	---	26.87	7.23	42	2.92
MW-35-135	15-Mar-05	10,800	27.00	8.09	-108	2.11
	13-Jun-05	15,000	28.50	7.60	-138	1.75
	07-Oct-05	10,800	28.17	7.75	-55	1.29
	14-Dec-05	8,480	26.27	8.76	38	3.17
	10-Mar-06	12,400	25.96	7.98	103	2.44
MW-36-20	09-Mar-05	22,600	25.39	7.61	-88	7.59
	05-Apr-05	20,000	24.55	7.63	-92	5.26
	03-May-05	10,200	25.13	7.63	-180	3.51
	03-Oct-05	13,000	26.68	7.42	-165	3.02
	15-Dec-05	---	24.89	7.39	-112	2.36
	07-Mar-06	18,900	24.38	7.82	-148	2.50
MW-36-40	08-Mar-05	9,000	25.53	7.82	-194	5.54
	05-Apr-05	11,200	25.61	7.67	-162	5.34
	05-May-05	10,300	25.62	7.58	-180	2.74
	03-Oct-05	10,800	25.72	7.28	-162	3.79
	15-Dec-05	15,400	24.70	7.87	-190	2.68
	07-Mar-06	17,000	24.57	7.71	-166	3.30
MW-36-50	08-Mar-05	8,800	25.42	7.70	-168	5.53
	05-Apr-05	9,320	25.68	7.60	-129	5.55
	05-May-05	9,330	25.64	7.52	-137	2.10
	03-Oct-05	7,500	26.23	7.45	-133	2.87
	15-Dec-05	13,700	24.70	7.61	-136	2.80
	07-Mar-06	8,400	24.34	7.66	-110	2.72
MW-36-70	08-Mar-05	11,300	26.81	7.60	-115	5.17
	05-Apr-05	9,990	25.02	7.37	-48	5.55
	03-May-05	12,300	25.70	7.28	-103	0.00
	03-Oct-05	7,680	26.12	7.37	-112	2.54
	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
MW-36-90	09-Mar-05	18,100	25.35	7.74	49	5.10
	05-Apr-05	15,100	25.23	7.63	64	5.27
	03-May-05	17,600	25.90	7.39	55	0.00
	25-Jul-05	18,400	25.90	7.26	129	1.13
	17-Aug-05	16,600	25.60	7.15	152	1.27
	08-Sep-05	17,500	25.60	7.22	49	1.63
	03-Oct-05	12,700	25.66	7.15	174	3.44
	02-Nov-05	19,300	25.25	7.14	69	1.39
	15-Dec-05	18,000	24.62	7.54	34	2.48

TABLE 9

Field Water Quality Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-36-90	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
MW-36-100	09-Mar-05	22,600	27.30	7.34	-20	0.26
	22-Mar-05	19,900	26.10	7.46	-16	0.19
	04-Apr-05	19,600	25.40	7.42	-20	0.07
	20-Apr-05	17,500	25.27	7.63	2	3.12
	03-May-05	18,700	26.90	7.36	4	0.40
	18-May-05	34,800	27.00	7.16	12	1.52
	02-Jun-05	18,800	27.20	7.38	23	2.48
	19-Jul-05	17,700	33.96	7.11	17	1.02
	15-Aug-05	16,800	30.20	7.17	-15	1.62
	08-Sep-05	18,300	27.50	7.20	21	1.70
	05-Oct-05	16,500	25.70	6.66	4	2.78
	03-Nov-05	21,100	25.81	7.20	-19	1.31
	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
MW-37D	11-Mar-05	---	30.80	7.99	21	4.37
	04-Oct-05	15,100	30.46	8.09	4	2.76
	14-Dec-05	13,100	28.94	8.70	71	4.03
	13-Mar-06	18,600	29.56	7.68	118	3.37
MW-37S	11-Mar-05	---	29.38	7.88	36	5.15
	07-Apr-05	---	31.10	7.67	-68	1.99
	15-Jun-05	3,930	33.65	7.70	-71	8.07
	04-Oct-05	4,460	29.28	7.98	-33	3.01
	14-Dec-05	3,860	27.67	8.78	69	4.20
	13-Mar-06	6,000	28.44	7.73	106	3.81
MW-38D	11-Mar-05	23,500	30.47	8.00	56	3.95
	17-Jun-05	22,200	31.90	8.01	68	1.66
	07-Oct-05	25,700	30.47	7.82	-2	1.07
	10-Mar-06	23,800	28.47	7.48	112	2.09
MW-38S	11-Mar-05	4,650	28.38	7.36	120	5.36
	17-Jun-05	4,540	30.20	7.48	55	2.87
	07-Oct-05	4,290	29.50	7.45	47	2.17
	10-Mar-06	4,750	28.69	7.19	158	3.44
MW-39-40	09-Mar-05	8,290	26.78	7.86	-177	5.01
	05-Apr-05	6,200	26.51	7.82	-179	5.42
	05-May-05	6,070	26.53	7.75	-179	1.78
	16-Jun-05	9,600	27.10	7.59	-202	2.09
	04-Oct-05	5,640	26.50	7.41	-203	2.87
	16-Dec-05	5,680	25.94	7.34	-177	2.07
	07-Mar-06	8,450	25.57	7.76	-162	3.03
MW-39-50	09-Mar-05	14,400	26.68	7.65	11	4.96

TABLE 9

Field Water Quality Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-39-50	06-Apr-05	12,400	25.88	7.23	81	4.43
	03-May-05	14,300	27.20	7.33	56	0.04
	16-Jun-05	15,200	27.30	7.33	-44	1.98
	04-Oct-05	13,600	26.90	7.21	-78	2.59
	16-Dec-05	11,300	25.97	7.07	-57	2.01
	12-Jan-06	18,300	25.53	7.54	-9	2.84
	08-Mar-06	16,000	25.31	7.76	71	2.31
MW-39-60	09-Mar-05	15,200	26.84	7.58	65	4.95
	06-Apr-05	12,600	26.27	7.21	84	4.30
	05-May-05	14,600	26.56	7.27	43	1.98
	16-Jun-05	17,600	27.30	7.13	19	1.86
	04-Oct-05	14,100	27.00	7.05	-20	2.15
	16-Dec-05	11,200	25.15	6.83	-40	2.34
	08-Mar-06	---	25.50	7.50	12	2.10
MW-39-70	09-Mar-05	13,800	26.50	7.74	71	5.25
	05-Apr-05	11,500	26.28	7.44	61	5.76
	05-May-05	12,500	26.09	7.27	98	1.92
	16-Jun-05	16,000	26.70	7.15	22	1.81
	04-Oct-05	13,800	26.60	7.05	31	2.72
	16-Dec-05	10,000	25.97	7.10	22	2.19
	10-Feb-06	15,500	25.88	7.20	48	2.81
	08-Mar-06	16,300	25.40	7.56	201	2.79
MW-39-80	09-Mar-05	16,800	26.51	7.75	82	5.01
	06-Apr-05	13,800	26.03	7.32	88	4.65
	03-May-05	14,900	27.00	7.23	106	0.37
	16-Jun-05	16,800	27.60	7.17	52	1.99
	25-Jul-05	17,400	26.70	7.09	169	1.23
	17-Aug-05	15,600	26.50	7.07	164	1.34
	06-Sep-05	17,700	26.50	7.00	149	1.97
	04-Oct-05	15,900	26.90	7.09	76	2.73
	02-Nov-05	17,600	26.11	7.17	148	1.44
	15-Dec-05	15,400	25.72	7.55	78	2.24
	12-Jan-06	18,200	25.51	7.43	58	2.91
	10-Feb-06	18,900	26.04	7.16	66	2.60
	08-Mar-06	20,900	25.40	7.51	154	2.23
MW-39-100	10-Mar-05	24,500	27.57	7.95	28	5.05
	06-Apr-05	---	27.40	7.40	54	1.53
	09-May-05	20,400	28.30	7.33	159	1.75
	17-Jun-05	19,200	29.30	7.89	14	2.80
	19-Jul-05	18,400	29.23	7.17	80	1.34
	17-Aug-05	18,600	26.40	7.15	170	1.53
	06-Sep-05	21,000	26.90	7.11	134	2.22
	04-Oct-05	15,900	26.84	7.29	73	2.32
	02-Nov-05	23,000	26.52	7.04	168	1.67
	13-Dec-05	20,100	26.70	7.06	139	3.00
	12-Jan-06	22,900	26.44	7.42	121	3.56

TABLE 9

Field Water Quality Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-39-100	09-Feb-06	21,700	27.38	7.18	120	2.88
	13-Mar-06	20,400	26.93	7.59	51	0.70
MW-40D	10-Mar-05	17,200	30.93	7.59	-19	1.49
	16-Jun-05	14,500	33.36	7.60	-149	1.96
	05-Oct-05	16,100	31.90	7.51	-60	2.64
	13-Dec-05	18,300	30.39	8.39	-6	2.80
	08-Mar-06	18,900	31.56	7.42	45	2.13
MW-40S	10-Mar-05	2,080	29.22	7.57	134	7.33
	07-Apr-05	---	30.00	7.56	26	7.65
	16-Jun-05	1,900	32.27	7.72	143	5.97
	05-Oct-05	1,940	30.90	7.64	7	6.81
	13-Dec-05	2,130	28.79	8.34	157	8.02
	08-Mar-06	2,670	30.87	7.50	233	7.85
MW-41D	11-Mar-05	22,700	29.61	7.90	-244	0.62
	14-Jun-05	21,000	31.67	7.75	-212	3.17
	05-Oct-05	21,100	31.40	7.77	-225	2.38
	16-Dec-05	20,200	29.05	8.31	-163	2.15
	15-Mar-06	24,700	30.92	7.71	-115	2.10
MW-41M	11-Mar-05	16,100	29.95	7.74	-66	0.82
	14-Jun-05	13,800	30.90	7.62	-106	2.78
	05-Oct-05	15,100	30.40	7.63	-85	2.42
	16-Dec-05	14,400	28.50	8.14	-38	2.08
	13-Mar-06	17,900	29.77	7.66	18	2.22
MW-41S	10-Mar-05	5,080	29.46	7.83	87	2.46
	14-Jun-05	4,460	30.36	7.79	-45	4.28
	05-Oct-05	4,660	29.50	7.84	-47	3.29
	16-Dec-05	4,420	27.86	8.37	-3	2.86
	13-Mar-06	9,600	27.22	7.85	48	3.36
MW-42-30	16-Mar-05	17,800	24.71	7.29	-136	1.21
	07-Oct-05	16,700	26.20	7.20	-139	2.92
	15-Dec-05	14,500	25.01	6.43	-129	2.39
	07-Mar-06	11,400	25.22	7.93	-154	0.36
MW-42-55	16-Mar-05	17,100	25.46	7.51	-191	0.51
	07-Oct-05	18,100	25.50	7.14	-126	5.62
	15-Dec-05	11,100	24.44	6.50	-143	2.38
	07-Mar-06	16,500	25.12	7.76	-122	0.27
MW-42-65	16-Mar-05	21,400	25.51	7.10	-126	0.55
	07-Oct-05	17,300	25.80	6.81	-121	2.85
	15-Dec-05	13,200	23.43	6.29	-78	2.49
	07-Mar-06	20,100	24.66	7.37	-58	0.39
MW-43-25	07-Mar-05	1,690	20.30	7.17	-161	6.05
	15-Mar-05	1,660	19.68	7.67	-177	4.59
	20-Jun-05	1,800	21.00	7.36	-174	1.88
	04-Oct-05	1,220	21.42	7.50	-159	1.95

TABLE 9

Field Water Quality Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
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
MW-43-75	07-Mar-05	15,200	21.70	7.29	-150	5.60
	15-Mar-05	14,900	20.86	7.60	-178	0.49
	20-Jun-05	18,100	21.80	7.31	-165	1.78
	26-Jul-05	15,600	29.07	7.36	-160	1.13
	16-Aug-05	13,800	25.90	7.26	-168	1.33
	08-Sep-05	16,400	28.20	7.29	-176	1.68
	04-Oct-05	12,900	22.09	7.20	-126	2.27
	03-Nov-05	16,700	21.86	7.36	-168	1.38
	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
MW-43-90	07-Mar-05	21,500	22.20	6.94	-185	0.23
	15-Mar-05	22,000	20.93	7.28	-153	0.47
	20-Jun-05	26,200	22.30	6.86	-140	1.79
	26-Jul-05	23,800	27.20	6.90	-129	2.09
	16-Aug-05	19,400	27.30	6.79	-136	1.33
	08-Sep-05	23,100	30.10	6.87	-152	1.69
	04-Oct-05	18,400	22.65	6.70	-78	4.85
	03-Nov-05	27,700	22.43	6.88	-127	1.15
	16-Dec-05	22,300	21.30	6.72	-127	2.51
	11-Jan-06	26,500	21.57	7.16	-89	3.28
	10-Feb-06	25,900	21.70	6.89	-112	2.81
	10-Mar-06	21,100	21.41	7.48	-116	0.01
OW-3D	06-Oct-05	7,890	31.10	8.23	-178	1.29
	09-Mar-06	7,840	29.71	7.66	-1	2.00
OW-3M	06-Oct-05	5,440	30.66	8.16	-90	1.82
	09-Mar-06	5,550	29.72	7.70	-41	2.38
OW-3S	06-Oct-05	2,040	30.12	7.84	-9	7.07
	09-Mar-06	2,480	29.23	7.43	57	6.77
PE-1	03-Oct-05	11,600	26.10	7.37	-202	0.77
	13-Dec-05	12,400	23.07	7.21	-148	2.19
PGE-6	12-Oct-05	4,240	28.14	7.48	-23	1.59
PGE-8	13-Oct-05	22,300	31.50	8.26	-338	1.08
Park Moabi	11-Mar-05	1,330	26.17	7.72	-59	3.65
	15-Jun-05	1,440	31.08	8.13	158	5.93
	05-Oct-05	1,430	28.98	7.83	93	6.76
	16-Dec-05	2,860	28.83	7.96	-26	3.67
	06-Mar-06	1,110	29.10	8.01	275	4.67
TW-1	11-Oct-05	7,120	30.39	7.30	148	4.90
TW-2D	15-Jun-05	9,400	29.26	7.70	147	4.96
	15-Mar-06	8,470	26.30	7.46	5	5.20

TABLE 9

Field Water Quality Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
TW-2S	11-Mar-05	---	29.30	7.65	90	4.83
	16-Jun-05	4,140	29.20	7.63	129	7.90
	07-Oct-05	3,320	22.10	6.24	204	8.57
	15-Mar-06	3,200	27.97	7.84	-38	7.53
Surface Water Stations						
C-CON	13-Jul-05	1,120	23.40	8.04	181	9.60
	13-Jul-05	1,130	22.80	8.14	174	9.50
	13-Jul-05	980	22.30	8.18	173	10.70
	22-Sep-05	924	22.04	8.31	142	8.68
	22-Sep-05	922	22.03	8.06	149	8.75
	22-Sep-05	922	22.02	8.07	147	8.73
	08-Nov-05	1,130	19.20	7.72	42	9.05
	08-Nov-05	828	19.20	9.33	13	9.06
	08-Nov-05	825	19.00	7.65	43	9.01
	13-Dec-05	1,060	13.00	8.24	160	11.61
	13-Dec-05	1,060	13.00	8.25	159	11.15
	13-Dec-05	1,060	12.80	8.26	158	11.15
	18-Jan-06	896	12.19	8.81	236	10.40
	18-Jan-06	1,100	12.11	8.89	235	10.55
	18-Jan-06	891	12.33	8.75	238	11.55
	22-Mar-06	1,130	14.26	8.27	205	11.03
	22-Mar-06	1,130	14.23	8.25	191	11.51
	22-Mar-06	1,140	14.10	8.25	202	11.08
C-I-3	13-Jul-05	1,120	21.90	8.18	167	9.10
	13-Jul-05	1,130	22.20	8.18	167	9.20
	13-Jul-05	1,120	22.40	8.11	177	9.80
	21-Sep-05	917	21.90	8.34	147	8.66
	21-Sep-05	914	21.87	8.53	153	8.73
	21-Sep-05	917	21.93	8.43	136	8.69
	08-Nov-05	825	18.70	8.03	4	9.74
	08-Nov-05	825	18.70	8.20	22	9.10
	08-Nov-05	1,130	18.60	8.01	65	9.00
	13-Dec-05	1,070	12.60	8.16	171	10.86
	13-Dec-05	1,070	12.70	8.10	171	11.29
	13-Dec-05	1,070	12.60	8.11	174	10.99
	18-Jan-06	1,160	11.86	8.73	212	10.68
	18-Jan-06	934	11.55	8.78	208	9.75
	18-Jan-06	935	11.71	8.81	211	10.04
	23-Mar-06	835	14.40	8.71	137	10.94
	23-Mar-06	836	14.28	8.71	137	10.32
	23-Mar-06	833	14.41	3.99	138	10.56
C-MAR	21-Sep-05	925	23.46	8.33	105	7.83
	09-Nov-05	1,130	18.10	8.04	131	8.68
	09-Nov-05	1,140	18.10	8.04	133	8.76
	09-Nov-05	1,150	18.10	8.08	137	8.78

TABLE 9

Field Water Quality Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Surface Water Stations						
C-MAR	13-Dec-05	1,340	11.60	8.09	165	11.06
	19-Jan-06	1,390	11.35	8.54	224	10.08
	19-Jan-06	1,390	11.31	8.54	223	9.77
	19-Jan-06	1,350	11.31	8.55	224	10.20
	23-Mar-06	972	13.86	7.22	157	12.39
C-NR1	13-Jul-05	1,140	23.70	8.18	170	9.60
	13-Jul-05	1,120	23.30	8.09	175	9.10
	13-Jul-05	980	22.60	8.20	175	10.00
	22-Sep-05	919	22.06	8.54	98	8.59
	22-Sep-05	922	22.08	8.09	132	8.65
	22-Sep-05	922	22.07	8.09	73	8.62
	09-Nov-05	1,030	18.20	8.23	153	9.06
	09-Nov-05	1,140	18.20	7.79	188	9.09
	09-Nov-05	1,050	18.20	8.15	166	9.05
	14-Dec-05	896	12.60	8.13	204	11.46
	14-Dec-05	908	12.60	7.91	211	11.39
	14-Dec-05	980	12.60	7.24	212	11.55
	18-Jan-06	896	12.63	8.73	238	10.35
	18-Jan-06	890	12.92	8.84	235	11.45
	18-Jan-06	1,100	12.35	8.67	241	12.00
	22-Mar-06	1,140	14.10	8.25	205	11.00
	22-Mar-06	1,140	14.23	8.25	206	11.01
	22-Mar-06	1,120	13.94	8.26	200	11.20
C-NR3	14-Jul-05	1,090	21.90	7.98	165	10.60
	14-Jul-05	1,080	22.00	8.13	165	10.30
	14-Jul-05	1,170	21.20	7.82	245	10.50
	22-Sep-05	923	22.03	8.07	130	8.55
	22-Sep-05	920	22.00	8.07	127	8.58
	22-Sep-05	923	22.02	8.09	133	8.56
	09-Nov-05	1,030	18.30	8.25	142	8.98
	09-Nov-05	1,030	18.30	8.25	143	8.94
	09-Nov-05	1,030	18.40	8.26	139	8.95
	14-Dec-05	860	12.60	8.34	188	11.54
	14-Dec-05	878	12.60	8.31	189	11.46
	14-Dec-05	908	12.50	8.26	192	11.59
	18-Jan-06	1,100	12.35	8.69	236	10.76
	18-Jan-06	1,100	12.37	8.69	235	12.24
	18-Jan-06	1,100	12.35	8.85	234	10.69
	22-Mar-06	1,120	13.71	8.23	205	10.96
	22-Mar-06	1,160	13.65	8.19	199	10.97
	22-Mar-06	1,140	13.56	8.22	188	11.04
C-NR4	14-Jul-05	1,090	21.90	7.82	193	11.60
	14-Jul-05	1,080	22.30	7.55	194	11.91
	14-Jul-05	1,170	21.10	8.15	185	10.90
	22-Sep-05	925	21.91	8.04	137	8.65
	22-Sep-05	923	21.93	8.07	136	8.61

TABLE 9

Field Water Quality Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Surface Water Stations						
C-NR4	22-Sep-05	920	21.94	8.05	134	8.62
	09-Nov-05	1,010	18.40	8.27	135	8.95
	09-Nov-05	1,010	18.40	8.27	134	8.97
	09-Nov-05	1,030	18.40	8.28	137	8.92
	14-Dec-05	862	12.50	8.34	180	11.40
	14-Dec-05	873	12.50	8.33	181	11.60
	14-Dec-05	857	12.50	8.35	179	11.42
	18-Jan-06	1,130	12.14	8.60	214	10.35
	18-Jan-06	1,100	12.31	8.78	222	11.00
	18-Jan-06	915	13.12	8.26	216	10.27
	22-Mar-06	1,100	12.81	8.14	192	10.92
	22-Mar-06	1,130	13.23	8.28	182	10.87
	22-Mar-06	1,130	13.30	8.29	185	10.92
C-R22	13-Jul-05	1,130	22.70	8.18	166	9.70
	13-Jul-05	1,070	22.90	8.05	173	9.90
	13-Jul-05	960	21.90	8.11	215	10.50
	21-Sep-05	917	22.09	8.58	134	9.08
	21-Sep-05	914	22.02	8.85	133	8.78
	21-Sep-05	917	22.14	8.63	121	8.80
	08-Nov-05	828	19.00	8.15	35	8.95
	08-Nov-05	1,130	18.90	7.72	82	9.11
	08-Nov-05	1,110	18.90	7.61	93	9.09
	13-Dec-05	1,060	12.70	8.25	163	10.85
	13-Dec-05	1,060	12.70	8.24	164	10.98
	13-Dec-05	1,060	12.70	8.24	163	10.96
	19-Jan-06	946	11.87	8.76	216	10.39
	19-Jan-06	944	11.65	8.80	214	9.52
	19-Jan-06	938	11.58	8.80	217	10.53
	23-Mar-06	840	14.35	8.68	133	10.56
	23-Mar-06	835	14.24	8.65	131	10.96
	23-Mar-06	838	14.10	8.67	131	10.16
C-R27	13-Jul-05	980	22.30	8.15	176	10.10
	13-Jul-05	1,130	22.90	8.10	170	9.20
	13-Jul-05	1,120	22.80	7.91	180	9.50
	21-Sep-05	890	22.51	8.60	61	8.94
	21-Sep-05	912	22.40	8.50	15	9.00
	21-Sep-05	889	22.56	8.66	85	9.31
	08-Nov-05	824	19.20	8.64	5	9.17
	08-Nov-05	1,130	19.20	7.87	39	9.03
	08-Nov-05	829	19.20	---	---	9.14
	13-Dec-05	1,070	13.00	8.26	156	12.38
	13-Dec-05	1,060	12.90	8.26	155	11.12
	13-Dec-05	1,070	13.00	8.27	155	10.89
	19-Jan-06	1,180	12.25	8.60	226	10.28
	19-Jan-06	941	12.05	8.67	222	9.83
	19-Jan-06	939	12.20	8.78	219	10.70

TABLE 9

Field Water Quality Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Surface Water Stations						
C-R27	23-Mar-06	848	14.28	8.47	126	11.69
C-TAZ	13-Jul-05	1,130	22.00	8.13	164	9.70
	13-Jul-05	1,200	23.20	8.02	190	8.50
	13-Jul-05	1,120	22.30	8.07	168	9.40
	21-Sep-05	915	21.83	8.19	117	8.74
	21-Sep-05	919	21.80	8.18	131	8.74
	21-Sep-05	923	21.79	7.94	142	8.86
	08-Nov-05	1,150	18.50	8.11	72	8.97
	08-Nov-05	1,130	18.50	8.10	68	9.05
	08-Nov-05	1,140	18.50	8.85	57	9.07
	13-Dec-05	1,090	12.60	7.57	190	11.11
	13-Dec-05	1,060	12.50	8.04	186	11.03
	13-Dec-05	1,060	12.50	8.13	181	11.04
	19-Jan-06	1,220	12.18	8.08	212	10.60
	19-Jan-06	1,190	11.86	8.46	203	9.98
	19-Jan-06	1,160	11.64	8.71	204	10.13
	23-Mar-06	834	14.60	8.72	138	11.60
	23-Mar-06	833	15.10	8.71	140	11.61
	23-Mar-06	835	14.76	8.70	139	11.54
CON	01-Mar-05	1,270	16.86	8.14	198	10.55
	07-Mar-05	1,210	17.02	8.56	94	11.85
	14-Mar-05	1,570	16.40	8.25	191	9.88
	06-Apr-05	1,120	16.41	8.48	125	10.08
	04-May-05	1,080	19.40	8.24	141	9.84
	14-Jun-05	2,170	21.80	8.27	132	9.65
	13-Jul-05	980	22.60	8.21	179	10.50
	18-Aug-05	1,190	20.80	8.00	29	8.92
	07-Sep-05	1,190	21.37	7.91	58	12.58
	05-Oct-05	1,120	19.17	7.97	120	9.43
	01-Nov-05	---	18.94	8.17	99	9.20
	15-Dec-05	1,160	11.30	8.02	186	13.61
	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
I-3	08-Mar-05	1,170	15.11	---	191	8.98
	07-Apr-05	1,160	15.51	8.22	117	11.63
	04-May-05	1,090	18.90	8.20	181	9.84
	14-Jun-05	2,040	21.20	8.17	101	9.72
	13-Jul-05	980	22.10	8.06	189	9.98
	18-Aug-05	1,180	20.30	8.06	61	8.97
	07-Sep-05	1,180	20.68	8.21	59	13.20
	05-Oct-05	1,100	18.49	7.18	125	8.87
	01-Nov-05	---	18.82	7.96	105	9.26
	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

TABLE 9

Field Water Quality Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Surface Water Stations						
I-3	06-Mar-06	930	12.84	7.40	217	12.20
NR-1	08-Mar-05	1,170	16.23	---	156	7.90
	06-Apr-05	1,130	16.50	8.47	116	10.28
	04-May-05	1,090	18.80	8.17	165	9.77
	14-Jun-05	2,090	20.20	8.07	134	9.03
	13-Jul-05	980	22.60	8.20	180	10.60
	18-Aug-05	1,210	20.10	7.98	56	8.97
	07-Sep-05	1,180	20.34	8.22	77	13.40
	05-Oct-05	1,110	18.92	8.02	108	9.91
	01-Nov-05	---	18.99	8.17	108	9.19
	15-Dec-05	1,160	11.20	6.52	222	11.52
	10-Jan-06	1,390	12.80	8.84	92	14.09
	07-Feb-06	1,130	12.10	8.62	102	12.47
	06-Mar-06	---	12.35	8.38	296	11.18
NR-2	08-Mar-05	1,160	15.89	---	144	10.74
	06-Apr-05	1,140	16.43	8.44	124	10.41
	03-May-05	1,090	18.80	8.24	172	9.83
	14-Jun-05	1,900	20.00	8.17	126	9.20
	14-Jul-05	1,140	21.40	8.21	194	11.10
	18-Aug-05	1,190	20.30	7.96	63	8.84
	07-Sep-05	1,180	20.23	8.18	67	11.76
	05-Oct-05	1,100	18.83	8.04	93	9.44
	01-Nov-05	---	19.07	8.22	106	9.18
	15-Dec-05	1,130	11.40	7.23	199	11.28
	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
NR-3	08-Mar-05	1,160	15.70	---	152	9.26
	06-Apr-05	1,120	16.42	8.46	124	9.92
	04-May-05	1,090	18.80	8.25	175	9.83
	14-Jun-05	1,890	20.10	8.23	121	9.14
	13-Jul-05	1,170	21.30	8.17	187	11.20
	18-Aug-05	1,220	20.20	8.00	67	8.72
	07-Sep-05	1,180	20.28	8.17	66	12.80
	05-Oct-05	1,100	18.80	8.11	101	9.59
	01-Nov-05	---	17.15	8.35	106	9.21
	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
R-22	01-Mar-05	1,260	19.36	6.80	161	16.92
	07-Mar-05	1,070	16.99	8.14	139	12.12
	14-Mar-05	1,650	16.24	8.19	156	10.49
	06-Apr-05	1,120	16.69	8.15	110	10.20
	04-May-05	1,080	18.60	8.10	176	9.58
	14-Jun-05	1,960	21.40	8.18	128	9.58

TABLE 9

Field Water Quality Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Surface Water Stations						
R-22	13-Jul-05	980	22.90	8.13	202	10.40
	18-Aug-05	1,090	20.70	8.02	44	8.83
	07-Sep-05	1,210	20.56	7.31	127	13.08
	05-Oct-05	1,110	18.52	7.37	95	9.32
	01-Nov-05	1,920	19.73	6.76	133	9.44
	16-Dec-05	919	12.10	8.15	-28	10.95
	11-Jan-06	1,200	11.83	8.81	-123	12.64
	08-Feb-06	831	12.24	8.36	207	11.83
	06-Mar-06	---	12.48	8.09	290	11.83
R-27	01-Mar-05	1,260	18.30	7.77	174	10.71
	07-Mar-05	1,060	18.13	8.18	102	11.43
	14-Mar-05	1,450	16.30	8.20	172	10.15
	06-Apr-05	1,150	18.35	8.44	96	9.90
	04-May-05	1,080	18.80	8.23	167	9.51
	14-Jun-05	1,770	22.20	8.24	121	9.43
	13-Jul-05	980	23.00	8.19	180	11.30
	18-Aug-05	---	20.50	8.00	33	8.87
	07-Sep-05	1,160	20.81	7.52	77	11.63
	05-Oct-05	1,120	19.34	7.65	92	9.50
	01-Nov-05	---	19.06	7.28	94	9.21
	16-Dec-05	1,020	11.50	8.09	---	10.99
	12-Jan-06	822	12.61	8.57	85	12.34
	08-Feb-06	838	12.43	8.26	199	11.87
	06-Mar-06	900	12.69	8.19	287	11.47
R-28	08-Mar-05	1,180	16.75	---	168	9.40
	06-Apr-05	1,230	17.01	8.43	73	10.55
	04-May-05	1,080	18.90	8.24	167	9.72
	14-Jun-05	1,610	21.70	8.25	120	9.42
	14-Jul-05	1,170	21.80	8.16	224	10.80
	18-Aug-05	1,340	20.50	7.97	-16	8.54
	07-Sep-05	1,180	20.60	7.69	59	13.03
	05-Oct-05	1,110	18.82	7.84	95	9.78
	01-Nov-05	---	19.08	7.64	88	9.37
	16-Dec-05	914	11.10	8.08	28	11.20
	10-Jan-06	1,260	12.14	8.49	223	12.75
	08-Feb-06	1,150	12.00	8.41	185	12.57
	06-Mar-06	900	12.53	8.17	287	12.39
RRB	07-Apr-05	1,170	16.91	8.22	78	10.78
	04-May-05	1,090	21.00	8.04	106	9.58
	14-Jun-05	---	26.20	8.23	121	8.90
	14-Jul-05	1,180	24.30	8.24	203	10.60
	18-Aug-05	---	24.60	7.38	4	6.38
	07-Sep-05	1,270	21.97	7.74	82	12.16
	05-Oct-05	1,190	18.65	7.84	146	9.22
	01-Nov-05	---	18.07	8.10	103	9.36
	08-Feb-06	1,630	13.84	8.54	142	11.51

TABLE 9

Field Water Quality Measurements March 2005 through March 2006

PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Surface Water Stations						
RRB	06-Mar-06	920	15.04	8.41	275	11.68

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.

Field water quality parameters from MW-33-40 and PGE-7 are not available for October 2005 monitoring event because wells went dry very soon after pumping began.

Surface water station RRB was not sampled in December 2005 due to the location being dry.

Extraction well TW-2S was not sampled in December 2005 due to concurrent plumbing work for TW-3D and PE-1.

Field parameters from MW-33-40 in March 2005 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.

Figures

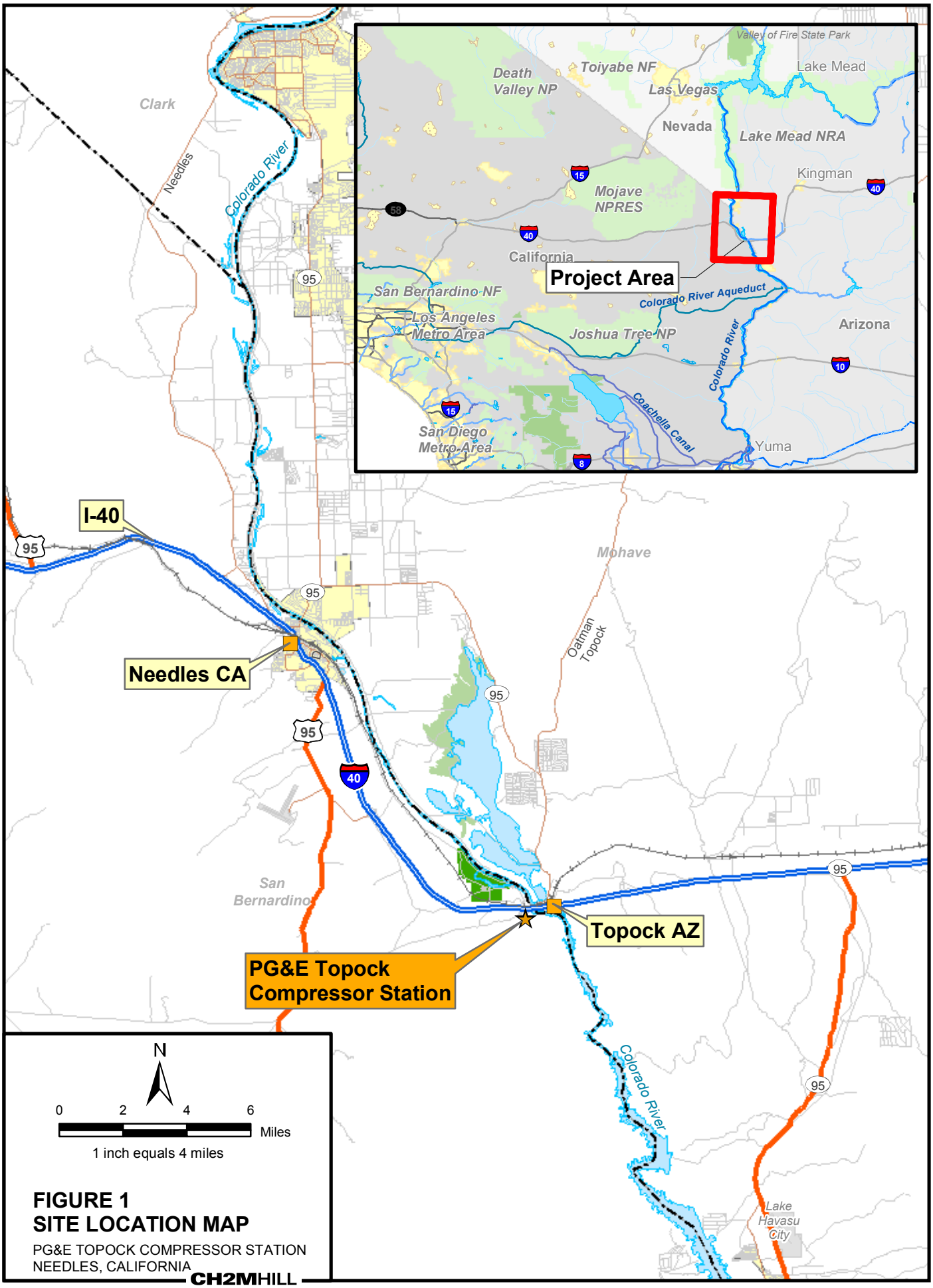
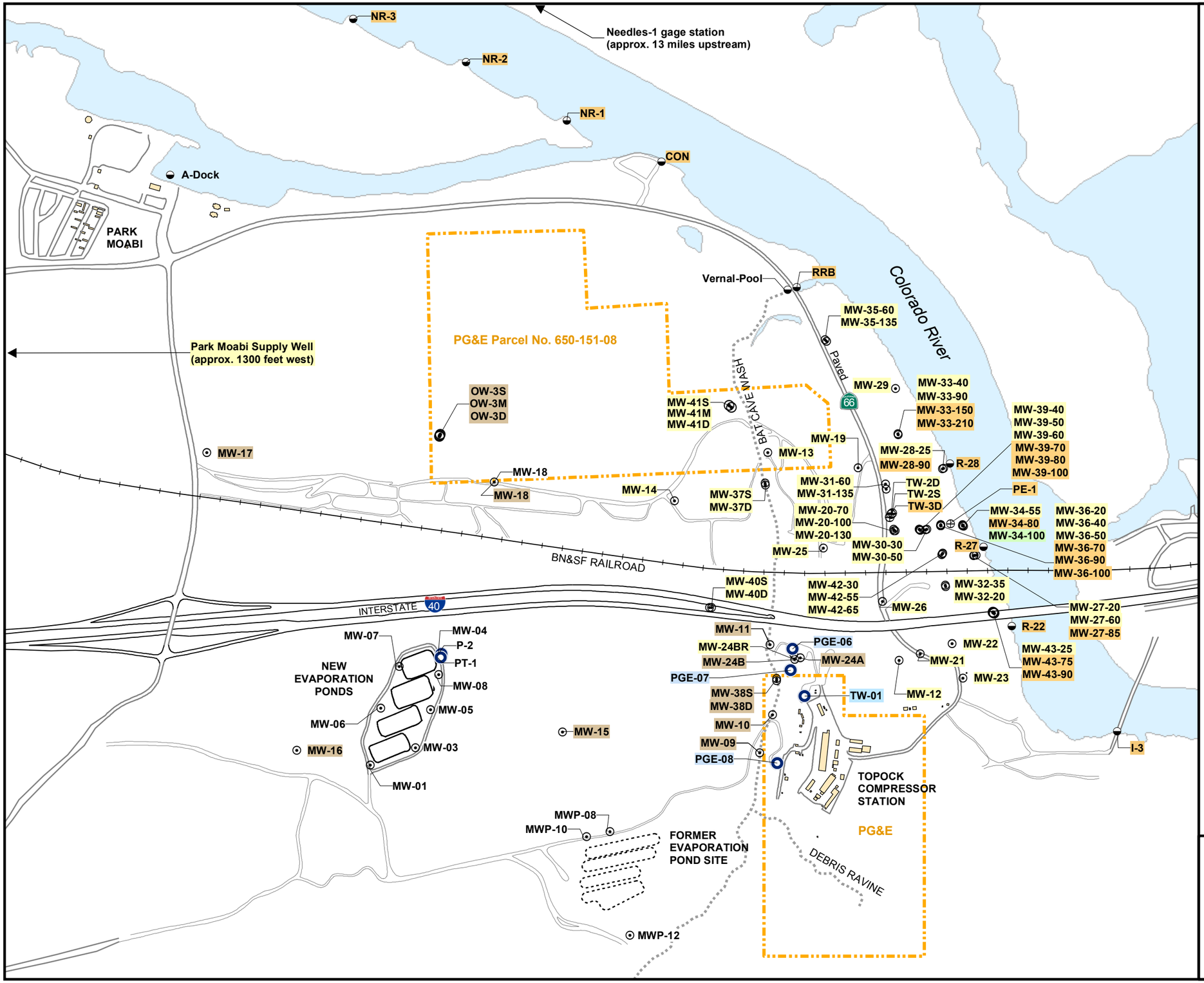


FIGURE 1
SITE LOCATION MAP

PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

CH2MHILL

RDD \\ZINFANDEL\PROJ\PACIFICGASELECTRICCO\TOPOCKPROGRAM\GIS\MXD\2005\LOCATION_MAP_PORTRAIT.MXD 12/13/2005 16:33:49



LEGEND

- Groundwater Monitoring Well
- Test Well or Supply Well (Inactive)
- Surface Water Monitoring Location
- Extraction Well
- PG&E Property Boundary

Sampling Frequency for Groundwater and Surface Water Monitoring Program (GMP) - March 2006

PGE-06	Biennial Sampling
MW-10	Semi-Annual Sampling
MW-29	Quarterly Sampling
R-27	Monthly Sampling
MW-34-100	Bi-Weekly Sampling

N

0 800 1,600 Feet

California State Plane NAD83 Zone 5 US Feet

FIGURE 2
MONITORING LOCATIONS AND SAMPLING FREQUENCY FOR GMP MARCH 2006
GROUNDWATER MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

CH2MHILL

N

0 1,000 2,000 Feet

1 inch equals 1,000 feet

LEGEND

River channel surface water sampling location

C-NR4

C-NR3

C-NR1

C-CON

Park Moabi

PG&E Parcel No. 650-151-08

Colorado River

Topock Marsh

MW-34 Cluster

C-R27

C-MAR

Topock Marina

BN & SF RAILROAD

BAT CAVE WASH

INTERSTATE 40

C-R22

C-I-3

C-TAZ

NEW EVAPORATION PONDS

TOPOCK COMPRESSOR STATION

PG&E

DEBRIS RAVINE

FORMER EVAPORATION POND SITE

FIGURE 3
DEPTH-SPECIFIC SURFACE WATER MONITORING LOCATIONS MARCH 2006

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

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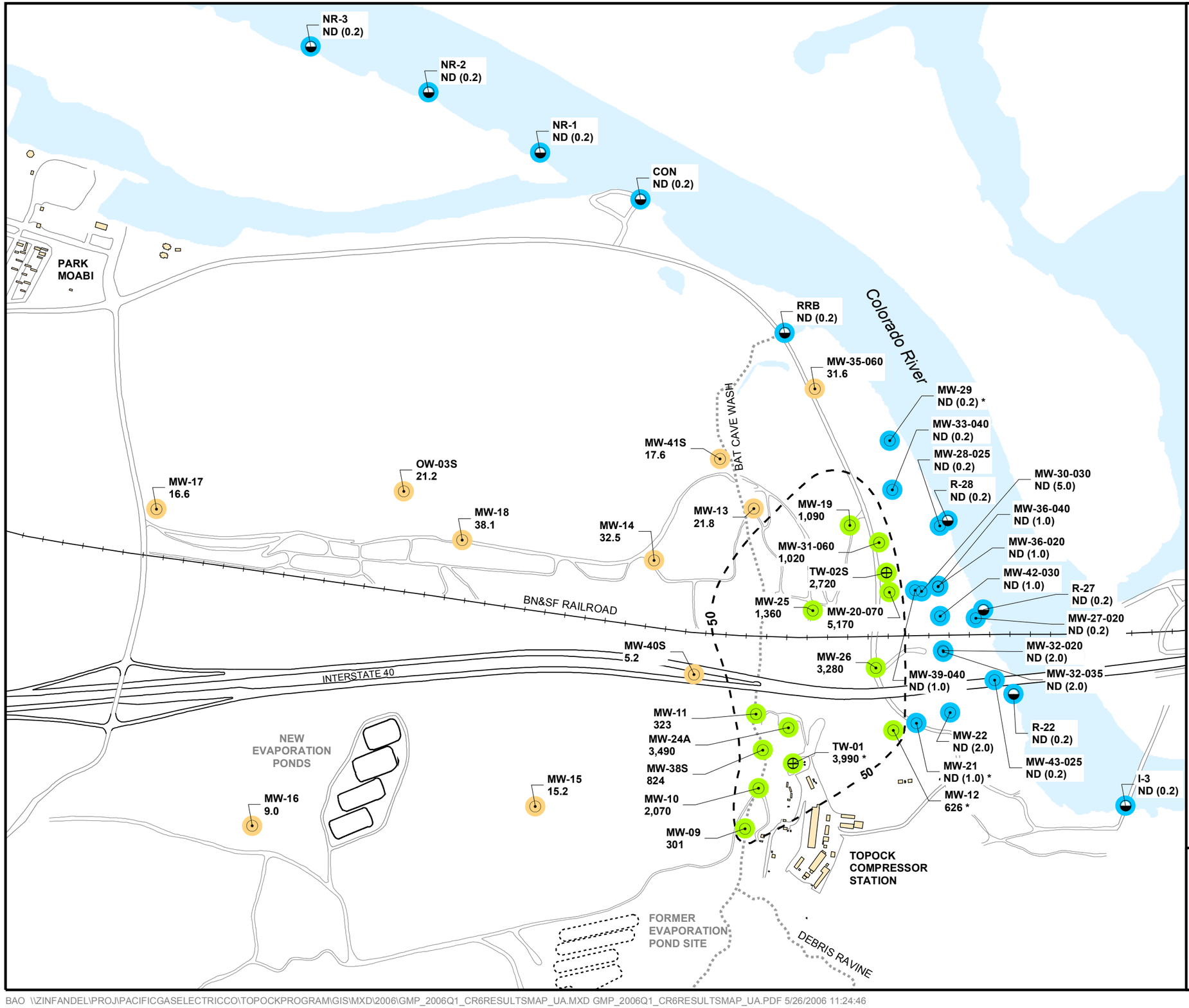


LEGEND

- Groundwater Test or Supply Well
- Surface Water Monitoring Location
- Extraction Well

6.48 Concentration of hexavalent chromium [Cr(VI)] in micrograms per liter (µg/L)

Results shown are maximum concentrations detected in primary and duplicate samples from wells completed in **Upper** Depth Interval of Alluvial Aquifer, March 2006 monitoring event. See Table 2 for complete results.

ND (0.2) Cr(VI) not detected, at listed reporting limit

NS Not sampled

* Result from most recent sampling event prior to March 2006.

Cr(VI) Concentrations in Water Samples

- Not detected at analytical reporting limit
- Concentration between reporting limit and 50 µg/L
- Concentration greater than 50 µg/L

50 Approximate outline of monitoring wells with Cr(VI) concentrations >= 50 µg/L (California drinking water standard for Total Chromium)

N

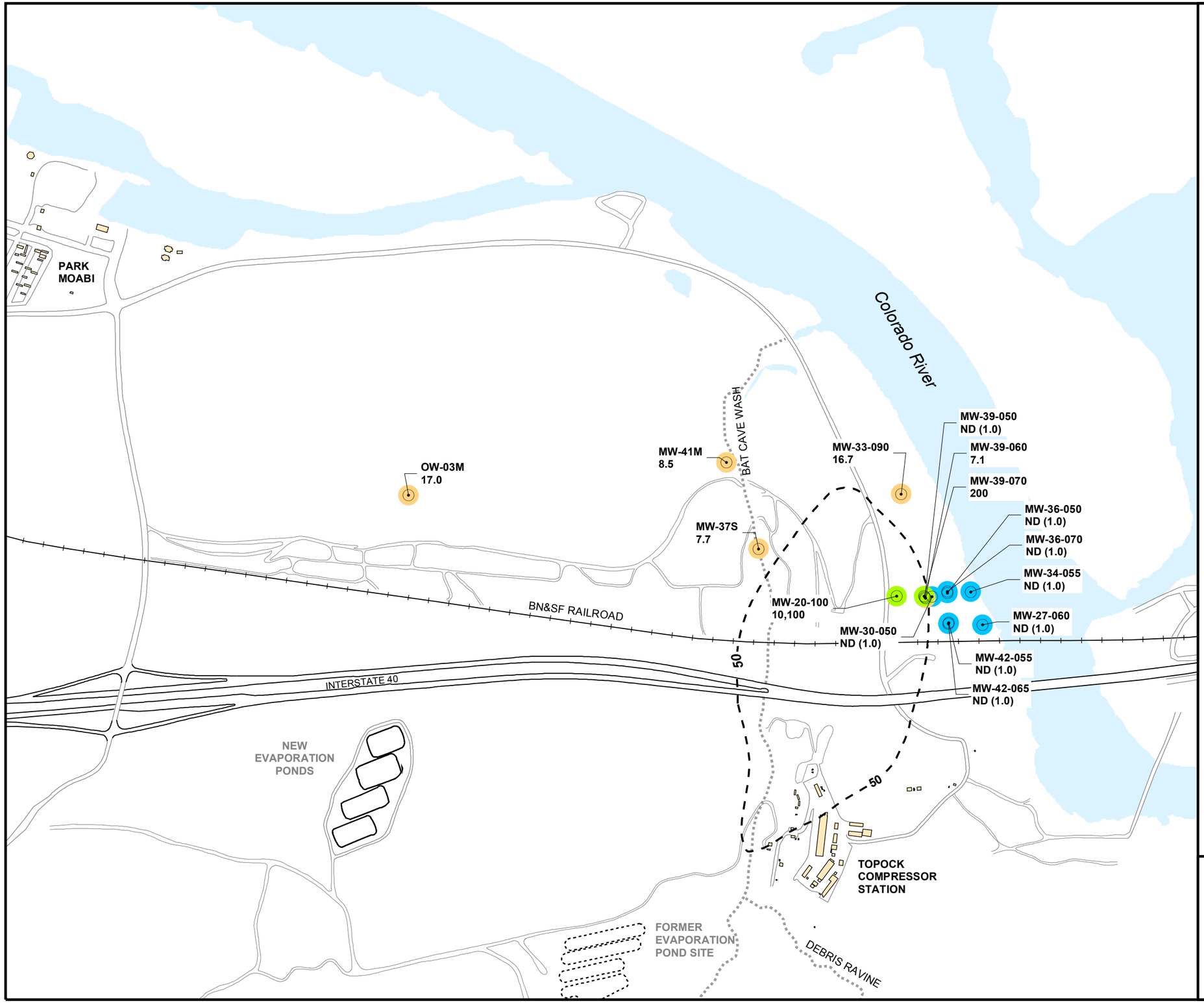
0 750 1,500 Feet

1 inch equals 750 feet

FIGURE 4A
CR(VI) SAMPLING RESULTS
UPPER DEPTH INTERVAL OF AQUIFER
1ST QUARTER 2006 MONITORING EVENT

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

CH2MHILL



LEGEND

- Groundwater Test or Supply Well
- Surface Water Monitoring Location
- Extraction Well

6.48 Concentration of hexavalent chromium [Cr(VI)] in micrograms per liter (µg/L)

Results shown are maximum concentrations detected in primary and duplicate samples from wells completed in **Middle** Depth Interval of Alluvial Aquifer, March 2006 monitoring event. See Table 2 for complete results.

ND (0.2) Cr(VI) not detected, at listed reporting limit

NS Not sampled

* Result from most recent sampling event prior to March 2006.

Cr(VI) Concentrations in Groundwater Samples

- Not detected at analytical reporting limit
- Concentration between reporting limit and 50 µg/L
- Concentration greater than 50 µg/L

50 Approximate outline of monitoring wells with Cr(VI) concentrations >= 50 µg/L (California drinking water standard for Total Chromium)

N

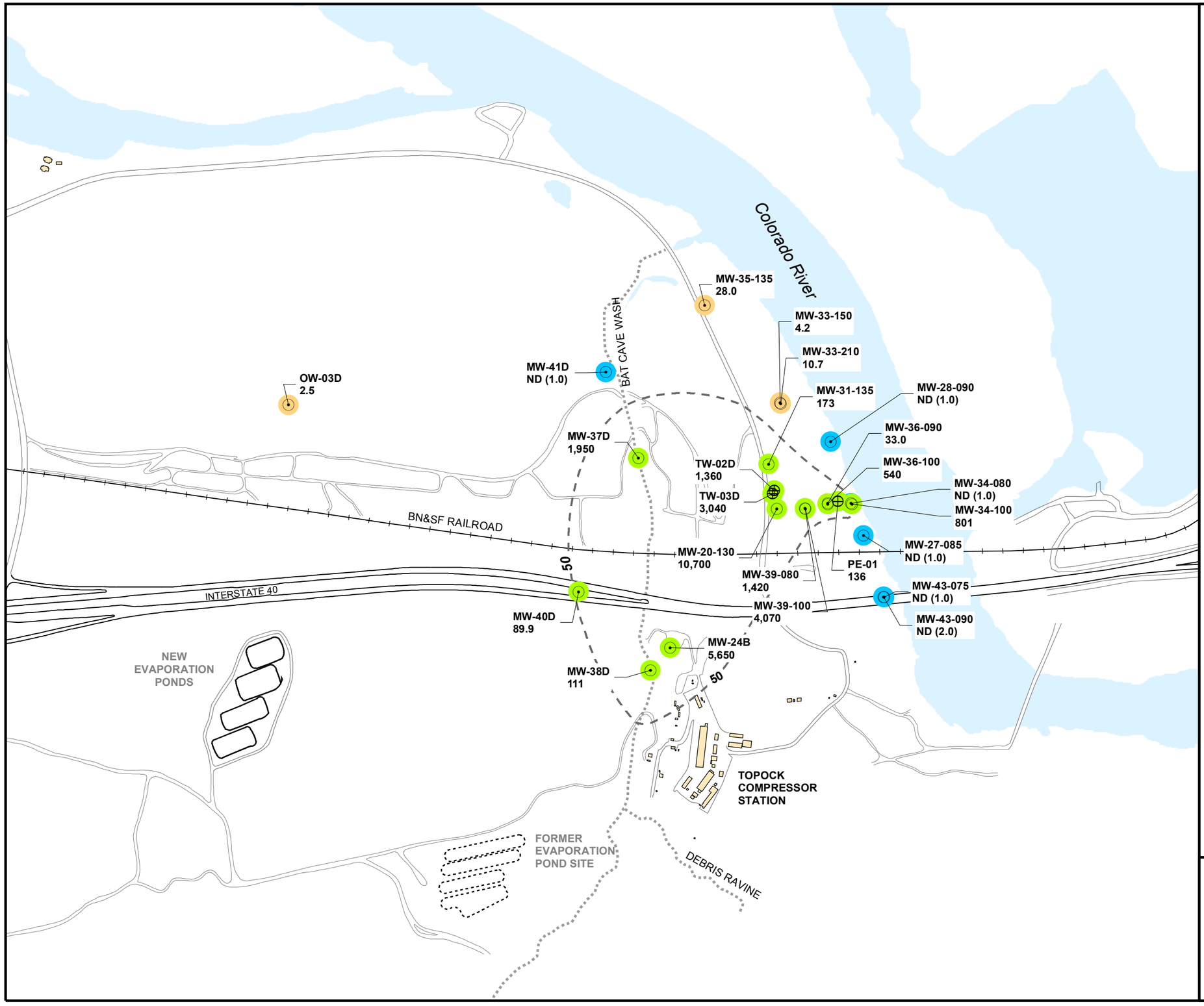
0 750 1,500 Feet

1 inch equals 750 feet

FIGURE 4B
CR(VI) SAMPLING RESULTS
MIDDLE DEPTH INTERVAL OF AQUIFER
1ST QUARTER 2006 MONITORING EVENT

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

CH2MHILL



LEGEND

- Groundwater Test or Supply Well
- Surface Water Monitoring Location
- Extraction Well

6.48 Concentration of hexavalent chromium [Cr(VI)] in micrograms per liter (µg/L)

Results shown are maximum concentrations detected in primary and duplicate samples from wells completed in **Lower** Depth Interval of Alluvial Aquifer, March 2006 monitoring event. See Table 2 for complete results.

ND (0.2) Cr(VI) not detected, at listed reporting limit

NS Not sampled

* Result from most recent sampling event prior to March 2006.

Cr(VI) Concentrations in Groundwater Samples

- Not detected at analytical reporting limit
- Concentration between reporting limit and 50 µg/L
- Concentration greater than 50 µg/L

50 Approximate outline of monitoring wells with Cr(VI) concentrations >= 50 µg/L (California drinking water standard for Total Chromium)

N

0 750 1,500 Feet

1 inch equals 750 feet

FIGURE 4C
CR(VI) SAMPLING RESULTS
LOWER DEPTH INTERVAL OF AQUIFER
1ST QUARTER 2006 MONITORING EVENT

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

CH2MHILL

PARK
M@ABI

Colorado River

BN & SF RAILROAD

INTERSTATE 40

BAT CAVE WASH

DEBRIS RAVINE

NEW
EVAPORATION
PONDS

FORMER
EVAPORATION
POND SITE

TOPOCK
COMPRESSOR
STATION

MW-17
NA

OW-03S
456.0

OW-05S
(456.0)

OW-02S
455.71

OW-01S
455.83

MW-18
455.93

MW-14
455.60

MW-41S
455.31

MW-13
455.23

MW-19
454.70

MW-25
454.77

MW-31-060*
454.44

MW-28-025*
455.01

MW-35-060
455.34

MW-33-040*
455.03

TW-2D
TW-3D

PE-01

MW-20-070*
453.53

MW-27-020*
455.01

MW-43-025*
455.10

MW-26
454.44

MW-24A
NA

MW-11
NA

MW-21
(455.56)

MW-22*
454.44

MW-38S
NA

MW-10*
455.36

MW-12
NA

MW-09
NA

MW-15
455.94

MW-07
(455.40)

MW-04
(455.66)

MW-08
456.14

MW-06
456.07

MW-05
455.98

MW-16
456.27

MW-03
(456.67)

MW-01
NA

456.0

455.5

455.0

454.5

454.0

N

0 700 1,400 Feet

1 inch equals 700 feet

LEGEND

- Extraction well
- Groundwater monitoring / observation well
- MW-20-100 454.75 — Well name with water level elevation (ft MSL)
- MW-20-100 (454.75) — Well name with water level elevation (ft MSL) not used in contouring
- MW-20-100* 454.75 — Groundwater Elevation from Transducer
- Groundwater Elevation Contour 0.5 ft
- Inferred or Approximate Groundwater Elevation Contour 0.5 ft
- NA — Data not available

Notes:
1. Water level contours for the floodplain area are presented in Performance Monitoring Reports.
2. TW-3D and PE-1 are pumping from lower portion of the aquifer.
3. Floodplain well data taken from pressure transducers at the time of manual measurements (9:00 AM).
4. Gradients shown on this figure show transient conditions in the aquifer at the time of measurement and may not reflect the expected average groundwater flow directions.

FIGURE 5
GROUNDWATER ELEVATION CONTOURS FOR SHALLOW WELLS
MARCH 8, 2006 WATER LEVEL SURVEY
1ST QUARTER 2006 MONITORING EVENT
GROUNDWATER MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

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

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions Cool & Cloudy

Sampling Event 2006GMP-093-Q1
Date 3/4/06
Page 1 of

Well/Sample Number MW-09-093 **QC Sample ID** MW-90-093 QC Sample Time
Purge Start Time 1117 Purge Method Ded. Pump
Flow Cell: Y N Min. Purge Volume (gal)/(L) 17gal Purge Rate (gpm)/(mLpm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
	1119	8	6.71	.004	0.35	8.11	26.30	0.0	.00	247	ALREADY pulling Re-Charge.
	1121	10	6.76	.003		8.12	26.57	0.0	.00	242	
											Well is dry will return to SAMPLE tomorrow
7 March Sample Taken	1023		6.96	3.18	[illegible] 6.21	6.63	25.01	0.2	2.1	227	

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 sampling?						NA				
Previous Field measurement	(10/3/2005)	7.49	2550	3.42	5.85	30	0.1		142	
Are measurements consistent with previous?						NA				

Sample Time Sample Location: pump tubing X well port spigot bailer other
Comments: Tagged Bottom @ 89.40

Initial Depth to Water (ft BTOC): 81.00
WD (Well Depth - from table) ft btc (89.44)
SWH (Standing Water Height) = WD-Initial Depth 8.44
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in) .66
One Casing Volume = D*SWH 5.573
Three Casing Volumes = 16.71

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: C101231

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal / Time of Reinstallation
	81.00			

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green
Odor: none, sulphur, organic, other
Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1
Field Conditions Cool/Cloudy

Sampling Event 2006-GMP-093-Q1
Date 5/6/06
Page 2 of ____

Well/Sample Number MW-10-093
QC Sample ID NA
QC Sample Time ____

Purge Start Time 1136
Purge Method ____ Ded. Pump ____
Flow Cell: Y / N
Min. Purge Volume (gal)/(L) 4/3 Purge Rate (gpm)/(mLpm) ____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
/	1142	10	6.90	2.75	3.33	3.99	28.77	.1	1.8	229	Clear / No Odor
/	1143	20	7.05	2.71	2.65	4.09	28.88	.1	1.8	228	
/	1145	30	7.12	2.73	42.30	4.51	27.95	.1	1.8	227	Turns green
/	1147	40	7.12	2.73	2.31	4.71	27.2	.1	1.8	227	After 2 gal
/	1148	50	7.18	2.72	1.41	4.90	27.03	.1	1.8	227	

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 sampling?						NA				
Previous Field measurement	(12/12/2005)	7.46	2470	4.64	5.94	28.2	0.1		165	
Are measurements consistent with previous?						NA				

Sample Time ____ Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 75.28
WD (Well Depth - from table) ft btc (96.93)
SWH (Standing Water Height) = WD-Initial Depth 21.65
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in) .66
One Casing Volume = D*SWH 14.2843
Three Casing Volumes = 42.86

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal ____ / Time of Reinstallation ____
1130	75.28	1200	75.30	
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green
Odor: none, sulphur, organic, other
Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions Cool/Cloudy

Sampling Event 2006-GMP-093-Q1
Date 3/6/06
Page 3 of

Well/Sample Number MW-11-093 **QC Sample ID** NA QC Sample Time —

Purge Start Time 1232 Purge Method Ded. Pump

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 36gal Purge Rate (gpm)/(mLpm) 5gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
—	1234	10	7.77	.003	38.9	8.19	27.98	.1	1.7	228	Clear @ Start
—	1236	20	7.55	2.66	37.8	7.13	28.47	.1	1.7	230	w/ no odor
—	1238	30	7.36	2.65	16.0	6.81	28.61	.1	1.7	232	
69.20	1240	40	7.29	2.64	8.74	6.90	28.57	.1	1.7	233	
	1242	50	7.26	2.60	28.5	6.98	28.66	.1	1.7	235	

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 sampling?	Y	Y	Y	Y	NA	—	—	Y
Previous Field measurement (12/12/2005)	7.19	2460	4	8.1	27.8	0.1		18
Are measurements consistent with previous?	Y	Y	Y	Y	NA	—	—	Y

Sample Time 1244 Sample Location: pump tubing X well port spigot bailer other

Comments:

Initial Depth to Water (ft BTOC): 67.34
WD (Well Depth - from table) ft btc (86.11)
SWH (Standing Water Height) = WD-Initial Depth 18.77
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in) .66
One Casing Volume = D*SWH 12.38 x 3
Three Casing Volumes = 37.16

Measure Point: Well TOC / Steel Casing WATER LEVEL METER SERIAL NUMBER: C01737

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal —
Time	Initial DTW	Time	Final DTW	Time of Reinstallation
1225	67.34	1253	67.23	

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions WARM/Clear

Sampling Event 2006-GMP-093-Q1
Date 3/8/06
Page ____ of ____

Well/Sample Number MW-13-093 **QC Sample ID** MW-91-093 QC Sample Time 1530

Purge Start Time 1424 Purge Method ____ Ded. Pump ____

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 38gal Purge Rate (gpm)/(mLpm) 2gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
33.44	1429	10	7.54	3.46	461	6.81	28.43	.2	2.3	143	-HAD to SURGE THE
	1434	20	7.47	3.69	262	6.73	28.62	.2	2.4	149	PUMP TO GET IT
33.40	1439	30	7.45	4.00	30.8	6.60	28.51	.2	2.6	159	TO START. (High Turb)
—	1444	40	7.45	4.01	11.0	6.61	28.67	.2	2.6	163	
33.40	1449	50	7.45	4.03	8.1	6.90	28.67	.2	2.6	163	

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 sampling?						NA				
Previous Field measurement	(12/13/2005)	8.43	2000	1.71	6.73	28.05	0.1		76	
Are measurements consistent with previous?						NA				

Sample Time 1500 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 32.78
WD (Well Depth - from table) ft btc (52)
SWH (Standing Water Height) = WD-Initial Depth 19.23
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in) .666
One Casing Volume = D*SWH 12.69 x3
Three Casing Volumes = 38.07

Measure Point: Well TOC / Steel Casing WATER LEVEL METER SERIAL NUMBER: C101231

Initial DTW / ~~Before Removal~~		Post DTW / ~~Approx. 5 min After Reinstallation~~		If Transducer	
Time	Initial DTW	Time	Final DTW	Time of Removal	—
1410	32.78	1505	32.60	Time of Reinstallation	—

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions partly cloudy, 70F

Sampling Event 2006-GMP-093-Q1
Date 3/9/05
Page 1 of 1

Well/Sample Number MW-14-093 **QC Sample ID** NA QC Sample Time NA

Purge Start Time 1214 Purge Method ind. pump Ded. Pump Yes

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 37 gal Purge Rate (gpm)/(mLpm) ~~5 sec~~ 6 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
117.62	1217	18	7.40	1.72	14.9	7.26	28.59	0.1	1.2	189	0.5 gal/5 sec
	1220	36	7.46	1.96	20.0	7.55	28.24	0.1	1.2	184	
117.71	1223	54	7.43	1.97	12.5	7.18	28.67	0.1	1.3	183	
117.75	1226	72	7.43	1.99	10.4	7.58	28.63	0.1	1.3	183	
											finished 1235

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 sampling?	Y	Y	declining	Y	NA	Y	Y	Y	
Previous Field measurement (12/15/2005)	7.74	1640	7.64	7.54	27.6	0.1		106	
Are measurements consistent with previous?	Y	~	~	Y	NA	Y		~	

Sample Time 1227 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 115.16
WD (Well Depth - from table) ft btc (133.83)
SWH (Standing Water Height) = WD-Initial Depth 18.67
D (Volume as per diameter) 2"= 0.17, (4"= 0.66), 1"=0.04 (4 in)
One Casing Volume = D*SWH 12.3 gal
Three Casing Volumes = 37 gal

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: C101231

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer NA
Time	Initial DTW	Time	Final DTW	Time of Removal
				Time of Reinstallation
Comments:				

Color: (clear), grey, yellow, brown, black, cloudy, green **Odor:** (none), sulphur, organic, other **Solids:** (Trace), Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions

Sampling Event 2006-GMP-093-Q1
Date 3/7/06
Page _____ of _____

Well/Sample Number MW-15-093 **QC Sample ID** NA QC Sample Time _____

Purge Start Time 1221 Purge Method _____ Ded. Pump _____

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 35 Purge Rate (gpm)/(mLpm) 5gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
—	1323	10	7.65	2.85	141	7.96	29.62	.1	1.9	44	
—	1325	20	7.57	2.40	21.5	7.89	29.73	.1	1.9	55	
—	1328	30	7.54	2.77	10.0	7.83	29.73	.1	1.8	58	
—	1329	40	7.54	2.66	4.79	7.85	29.74	.1	1.7	66	
	1332	50	7.53	2.59	3.54	7.73	29.84	.1	1.7	81	

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 sampling?						NA				
Previous Field measurement	(10/6/2005)	7.26	1670	1.52	8.11	29.54	0.1		-19	
Are measurements consistent with previous?						NA				

Sample Time 1333 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: water level continuously senros, water leak somewhere in stinger

Initial Depth to Water (ft BTOC): 185.35

WD (Well Depth - from table) ft btc (203)

SWH (Standing Water Height) = WD-Initial Depth 17.65

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in) .660

One Casing Volume = D*SWH 11.64 X 3

Three Casing Volumes = 34.94

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

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal _____
Time	Initial DTW	Time	Final DTW	Time of Reinstallation _____
185.35	1315	1339	185.43	
Comments:				

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

Odor: none, sulphur, organic, other

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

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions WARM & Breezy

Sampling Event 2006-GMP-093-Q1
Date 3/7/06
Page ____ of ____

Well/Sample Number MW-16-093 **QC Sample ID** NA QC Sample Time ____
Purge Start Time 1408 Purge Method ____ Ded. Pump ____
Flow Cell: Y / N Min. Purge Volume (gal)/(L) 34 gal Purge Rate (gpm)/(mLpm) 5 gpm Approx

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
✓	1410	10	7.65	1.30	11.3	5.56	29.24	.1	.8	-27	
✓	1412	20	7.68	1.33	5.92	6.15	29.28	.1	.9	-6	
✓	1414	30	7.76	1.36	7.40	6.85	29.25	.1	.9	34	
✓	1415	40	7.79	1.36	7.64	7.07	29.22	.1	.9	40	
✓	1417	50	7.79	1.35	5.42	7.25	29.24	.1	.9	54	
✓	1419	60	7.80	1.36	6.91	7.44	29.26	.1	.9	62	

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 sampling?					NA			
Previous Field measurement (12/20/2005)	7.86	1190	3.2	7.62	29.5	0.1		0.7
Are measurements consistent with previous?					NA			

Sample Time 1420 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____
Comments: Water level tape is on top of pump - UNABLE to get DTW during purge.

Initial Depth to Water (ft BTOC): 200.60
WD (Well Depth - from table) ft btc (218.15)
SWH (Standing Water Height) = WD-Initial Depth 17.25
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in) .66
One Casing Volume = D*SWH 11.36 X3
Three Casing Volumes = 34.15

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal ____
Time	Initial DTW	Time	Final DTW	Time of Reinstallation ____
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green
Odor: none, sulphur, organic, other
Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions partly cloudy, windy ~65°F

Sampling Event 2006-GMP-093-Q1
Date 3/9/06
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Well/Sample Number MW-17-093 **QC Sample ID** NA QC Sample Time NA

Purge Start Time 1035 Purge Method ded. pump Ded. Pump yes

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 32 gal (?) Purge Rate (gpm)/(mLpm) 2.7 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
NM*	1038	8	7.45	2.01	4.2	6.50	29.02	0.1	1.3	140	0.5 gal / 11 sec
	1041	16	7.23	2.25	~~4.2~~ 6.7	4.2	29.66	0.1	1.6	134	
	1044	24	7.39	2.57	3.2	6.60	29.81	0.1	1.6	129	
	1047	32	7.43	2.47	5.6	6.08	30.16	0.1	1.6	131	
	1050	40	7.44	2.44	3.4	6.52	30.94	0.1	1.6	133	

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 sampling?					NA	Y	Y		
Previous Field measurement (12/22/2005)	7.59	1850	2.27	4.72	29.5	0.1		113	
Are measurements consistent with previous?					NA	Y	Y		

Sample Time 1050 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: * WL not possible b/c WL below top of pump (?) or bend in casing? could not get past obstruction @ 110' should be approx 32 gal. purge based on previous measurements (from table)

Initial Depth to Water (ft BTOC): not possible - stopped, >110'
WD (Well Depth - from table) ft btc (153.62)
SWH (Standing Water Height) = WD-Initial Depth < 43.62
D (Volume as per diameter) 2"= 0.17 (4"= 0.66) 1"=0.04 (4 in)
One Casing Volume = D*SWH < 26.172 ?
Three Casing Volumes = < 78.5 ?

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: C-101231

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer NA
Time	Initial DTW	Time	Final DTW	Time of Removal
				Time of Reinstallation

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions sunny (partly cloudy), windy 70's F

Sampling Event 2006-GMP-093-Q1
Date 3/9/06
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Well/Sample Number MW-18-093 **QC Sample ID** MW-92-093 QC Sample Time 1140
Purge Start Time 1135 Purge Method temp pump grundfos Ready flow 2 Ded. Pump - ded. pump not working from last time (pulled)
Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 35 Purge Rate (gpm)/(mLpm) 2.6 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
89.32	1140	13	7.50	1.64	32.6	7.84	28.66	0.1	1.1	189	0.5 gal / 11.69 sec
89.35	1145	26	7.36	1.77	11.2	7.91	28.99	0.1	1.2	169	
89.38	1148	33.8	7.36	1.82	4.1	8.29	28.95	0.1	1.2	157	
89.39	1151	41.6	7.36	1.86	~~4~~ 2.6	8.08	28.92	0.1	1.2	152	
											1158 finished
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 sampling?			Y	Y	decreasing	Y	NA	Y	Y	Y	
Previous Field measurement (2/9/2006)			7.54	1350	10.3	7.64	28.05	0.1		140	
Are measurements consistent with previous?			Y	~	Y	Y	NA	Y		Y	

Sample Time 1152 Sample Location: pump tubing X well port _____ spigot _____ bailer _____ other _____
Comments: used temp. Grundfos pump.

Initial Depth to Water (ft BTOC): 89.06
WD (Well Depth - from table) ft btc (106.68)
SWH (Standing Water Height) = WD-Initial Depth 17.62
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)
One Casing Volume = D*SWH 11.63 gal
Three Casing Volumes = 34.9 gal

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: C-101231

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer NA
Time	Initial DTW	Time	Final DTW	Time of Removal
				Time of Reinstallation
Comments:				

Color: (clear), grey, yellow, brown, black, (cloudy), green to slightly
Odor: (none), sulphur, organic, other
Solids: (Trace), Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Topock Sampling Log

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions partly cloudy 75°F

Sampling Event 2006-GMP-093-Q1
Date 3/9/06
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Well/Sample Number MW-19-093 **QC Sample ID** NA QC Sample Time NA

Purge Start Time ~~1357~~ 1405 Purge Method pump Ded. Pump Yes

Flow Cell ~~Y~~ / N - orifice broke used overflow cup Min. Purge Volume (gal)/(L) 42 Purge Rate (gpm)/(mLpm) ~~4.3gpm~~ 7.5gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
47.05	1408	~~1~~322.5	7.30	2.63	5.6	7.49	28.23	0.1	1.8	232	~~0.5L/75sec~~ 0.5L/4sec
47.12	1411	~~2~~645	7.33	3.33	5.0	6.96	28.42	0.2	2.2	229	
47.18	1414	~~3~~9675	7.33	3.72	4.8	7.29	28.33	0.2	2.4	228	
	1417	~~52~~90	7.33	3.85	5.0	7.43	28.42	0.2	2.5	227	
											finished 1421

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 sampling?	Y	Y	Y	Y	NA	Y	Y	Y
Previous Field measurement (12/12/2005)	7.51	2140	3.08	7.68	26.9	0.1		153
Are measurements consistent with previous?	Y	~	~	Y	NA	Y	.	~

Sample Time 1418 Sample Location: pump tubing X well port _____ spigot _____ bailer _____ other _____

Comments: transducer not removed
flow through cell outlet broken, used over flow cup instead

Initial Depth to Water (ft BTOC): 44.97
WD (Well Depth - from table) ft btc (65.77)
SWH (Standing Water Height) = WD-Initial Depth 20.8
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in) (20.8 x 0.66)
One Casing Volume = D*SWH 13.7
Three Casing Volumes = 41.2

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: C-101231

Initial DTW / Before Removal		~~Yes~~ Approx. 5 min After Reinstallation		If Transducer Not moved
Time	Initial DTW	Time	Final DTW	Time of Removal
				Time of Reinstallation
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions Sunny, windy ~65°F

Sampling Event 2006-GMP-093-Q1
Date 3/10/06
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Well/Sample Number MW-20-070-093 **QC Sample ID** NA QC Sample Time NA

Purge Start Time 1253 Purge Method decl. pump Ded. Pump Y 5 gpm (~~test~~)

Flow Cell: Y / (N) overflow cup Min. Purge Volume (gal)/(L) 46 gal Purge Rate (gpm)/(mLpm) (10 gpm for 2 min, then 7.5 gpm for 1 min)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
56.47	1257	28	7.63	6.06	10.5*	7.26	27.97	0.3	3.9	221	0.5 gal/3sec = 10gpm, slowing
57.25	1300	43	7.52	5.90	4.0*	7.66	27.85	0.3	3.8	224	0.5 gal/4 sec = 7.5 rate
~~57.74~~ 57.74	1303	58	7.50	5.81	1.7*	7.36	27.73	0.3	3.8	226	0.5 gal/6 sec = 5 gpm
57~~70~~	1306	73	7.49	5.93	0.0*	7.32	28.01	0.3	3.8	228	
											finish 1310
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 sampling?							NA				
Previous Field measurement (12/15/2005)			7.59	3210	7.33	7.97	27.6	0.2		149	
Are measurements consistent with previous?							NA				

Sample Time 1307 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: * turb from Horiba U-22

Initial Depth to Water (ft BTOC): 46.53

WD (Well Depth - from table) ft btc (69.55) ~~23.02~~

SWH (Standing Water Height) = WD-Initial Depth ~~15.7~~ 23.02

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)

One Casing Volume = D*SWH 15.2 gal

Three Casing Volumes = 45.6 gal

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: C-10123

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation

Comments:

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

Odor: none, sulphur, organic, other

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

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions sunny, windy, 65°F

Sampling Event 2006-GMP-093-Q1
Date 3/10/06
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Well/Sample Number MW-20-100-093 **QC Sample ID** NA QC Sample Time NA

Purge Start Time 1042 Purge Method ded. pump Ded. Pump Yes

Flow Cell: Y / (N) overflow cup Min. Purge Volume (gal)/(L) 110 gal Purge Rate (gpm)/(mLpm) 7.5

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
71.75	1047	37.5	6.91	3.65	3.3	5.38	28.49	0.2	2.4	204	0.5 gal / 4 sec gpm
75.08	1052	75	7.10	4.11	~~12.1~~	3.38	28.57	0.2	2.7	201	
75.51	1055	~~97.5~~ ~~112.5~~	7.21	4.27	9.0	3.87	28.42	0.2	2.8	199	
75.71	1058	~~112.5~~ 120	7.27	4.27	7.6	3.26	28.44	0.2	2.8	199	
75.83	1101	142.5	7.30	4.29	5.6	3.16	28.53	0.2	2.8	199	had to dump water & refill from 5a cup - off readings
7592	1104	165	7.33	4.36	4.7	~~3.07~~ ~~4.51~~	28.46	0.2	2.8	198	
											finished 1/10

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 sampling?	Y	Y	dropping	Y	NA	Y	Y	Y	
Previous Field measurement (12/15/2005)	7.62	3980	7.15	3.03	28	0.2		140	
Are measurements consistent with previous?	~	~	~	Y	NA	Y		~	

Sample Time 1105 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: Transducer in well, not removed
yellowish-green water

Initial Depth to Water (ft BTOC): 46.27
WD (Well Depth - from table) ft btc (101.4)
SWH (Standing Water Height) = WD-Initial Depth 55.13
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)
One Casing Volume = D*SWH 36.4
Three Casing Volumes = 109.2 gal

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: C-101231

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		**If Transducer** not moved
Time	Initial DTW	Time	Final DTW	Time of Removal ____
				Time of Reinstallation ____
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green
Odor: none, sulphur, organic, other
Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions sunny, windy 65°F

Sampling Event 2006-GMP-093-Q1
Date 3/10/06
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Well/Sample Number MW-20-130-093 **QC Sample ID** NA QC Sample Time NA

Purge Start Time 1145 Purge Method temp Pump Ded. Pump N, used portable grundfos Redi Flow 2

Flow Cell: Y / (N) overflow cup Min. Purge Volume (gal)/(L) 168 Purge Rate (gpm)/(mLpm) 3 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
55.89	1155	30	7.37	7.71	3.3	2.58	28.65	0.4	5.1	223	0.5 gal / 3 sec
55.67	1205	60	7.44	14.2	1.9	3.39	28.49	0.8	9	217	
55.58	1215	90	7.46	14.3	1.9	3.55	28.17	0.8	9	214	
55.62	1225	120	7.47	14.4	2.1	3.50	28.54	0.8	9	213	
55.60	1230	135	7.48	14.4	0.0*	3.52	28.66	0.8	9	213	Vial broke for HACH turbidity meter
55.60	1235	150	7.49	14.7	0.0*	4.05	28.61	0.9	10	213	
55.60	1240	165	7.48	14.5	0.0*	3.49	28.67	0.8	9	213	
	~~1245~~	~~180~~ 174 e									finished 1245
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 sampling?							NA				
Previous Field measurement (12/16/2005)			7.99	11700	0.38	3.32	27.35	0.67		123	
Are measurements consistent with previous?							NA				

Sample Time 1245 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: transducer not removed
pump ~ 76' feet bTOC * turbs from Horiba U-22, vial broke for HACH meter

Initial Depth to Water (ft BTOC): 47.91
WD (Well Depth - from table) ft btc (132.34)
SWH (Standing Water Height) = WD-Initial Depth 84.43
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)
One Casing Volume = D*SWH 55.72 gal
Three Casing Volumes = 167.2 gal

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: C-101231

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer ~~N/A~~ not removed
Time	Initial DTW	Time	Final DTW	Time of Removal
				Time of Reinstallation
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions partly cloudy windy 70's

Sampling Event 2006-GMP-093-Q1
Date 3/9/06
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Well/Sample Number MW-21-093 **QC Sample ID** NA QC Sample Time NA

Purge Start Time 1437 Purge Method pump Ded. Pump Yes

Flow Cell: Y / (N) overflow cup Min. Purge Volume (gal)/(L) 16 gal Purge Rate (gpm)/(mLpm) (not measured, went dry too fast)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
58	~~1440~~ 1438		6.81	15.1	10.0*	4.20	26.71	0.9	10	172	1438 - pumped dry
	~~1443~~										return in 24 hrs to sample
	~~1446~~										

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 sampling?						NA				
Previous Field measurement	(12/14/2005)	7.94	12100	4.23	5.35	26.22	0.71		-90	
Are measurements consistent with previous?						NA				

Sample Time _____ Sample Location: pump tubing X well port _____ spigot _____ bailer _____ other _____

Comments: * used Horiba U-22 turbidity reading

Initial Depth to Water (ft BTOC): 50.51

WD (Well Depth - from table) ft btc (58.45)

SWH (Standing Water Height) = WD-Initial Depth 7.94

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)

One Casing Volume = D*SWH 5.24 gal

Three Casing Volumes = 15.7 gal

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: C-101231

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer NA
Time	Initial DTW	Time	Final DTW	Time of Removal
				Time of Reinstallation
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions

Sampling Event 2006-GMP-093-Q1
Date 14 March 06
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Well/Sample Number MW-22-093 **QC Sample ID** NA QC Sample Time

Purge Start Time Purge Method Grund Ded. Pump No

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 3.00 Purge Rate (gpm)/(mLpm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
10.67	0927	1.00	6.47	19.9	2.58	5.62	14.58	1.2	13	165	
	~~0930~~	~~2.00~~									Water ran out after
	~~0933~~	~~3.00~~									1.5 gal. Will return in
	~~0936~~	~~4.00~~									24 hr to sample
6.41	0912	1.5	6.12	34.8	188	8.54	19.89	2.2	23	120	15 March 1 reading &
											sample

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 sampling?						NA				
Previous Field measurement	(12/16/2005)	6.65	31200	22.6	2.31	24.64	1.96		-90	
Are measurements consistent with previous?						NA				

Sample Time 0914 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 6.45

WD (Well Depth - from table) ft btc (12.4)

SWH (Standing Water Height) = WD-Initial Depth 5.9

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)

One Casing Volume = D*SWH 1.003

Three Casing Volumes = 3.009

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

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal 0915
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 0943
0913	6.45	0948	6.64	
Comments:				

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

Odor: none, sulphur, organic, other

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

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions

Sampling Event 2006-GMP-093-Q1
Date 7 March 06
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Well/Sample Number MW-23-093 **QC Sample ID** NA QC Sample Time

Purge Start Time Purge Method 3 in Grund Ded. Pump Yes

Flow Cell: Y / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
	1338		7.15	21.1	2.8	5.47	27.87	1.3	14	199	

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 sampling?						NA				
Previous Field measurement	(12/14/2005)	8.13	15800	17.4	8.54	26.35	0.93		94	
Are measurements consistent with previous?						NA				

Sample Time 1339 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: Unable to purge!!
8 March took samples and 1 Reading.

Initial Depth to Water (ft BTOC): 52.77

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

WD (Well Depth - from table) ft btc (81.45)

SWH (Standing Water Height) = WD-Initial Depth 28.68

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)

One Casing Volume = D*SWH 18.92

Three Casing Volumes = 56.78

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions Cool & Clear

Sampling Event 2006-GMP-093-Q1
Date 3/9/06
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Well/Sample Number MW-24A-093 **QC Sample ID** NA QC Sample Time

Purge Start Time 1320 Purge Method DC Pump Ded. Pump Yes

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 33 Purge Rate (gpm)/(mL/m) 5 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
	1325	10	7.31	.969	—	3.03	28.74	.1	1.9	240	WATER is very
	1327	20	7.42	2.91	1.5	2.71	28.85	.1	1.9	240	green but
	1329	30	7.44	3.05	1.3	28.56	28.96	.1	2.0	240	clear
	1331	40	7.45	3.08	4.2	4.59	29	.2	2.0	240	
	1333	50	7.47	3.14		5.17	28.11	.2	2.0	239	

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 sampling?					NA	✓	✓		
Previous Field measurement (10/3/2005)	7.7	3040	0.69	3.26	29.2	0.2		157	
Are measurements consistent with previous?					NA	✓	✓		

Sample Time 1335 Sample Location: pump tubing X well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): 111.24

WD (Well Depth - from table) ft btc (127.48) ~~Not 24~~

SWH (Standing Water Height) = WD-Initial Depth ~~Not~~ 16.24

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in) .66

One Casing Volume = D*SWH 10.71 X 3

Three Casing Volumes = 32.15

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER C101

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation
1318	111.24			

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions clear warm

Sampling Event 2006-GMP-093-Q1
Date 7 March 06
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Well/Sample Number MW-24B-093 **QC Sample ID** NA QC Sample Time
Purge Start Time 1105 Purge Method Grundfos Ded. Pump
Flow Cell: (Y) N Min. Purge Volume (gal)/(L) 210 Purge Rate (gpm)/(mLpm) 6.81

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
115.44	1110	30	7.07	17.7	3.20	2.91	30.02	1.0	11	212	
	1115	60	7.60	17.8	10.0	2.71	30.09	1.1	12	207	
	1120	90	7.67	17.8	6.86	2.75	30.05	1.1	12	204	
	1125	120	7.69	17.8	6.14	2.76	30.19	1.1	12	202	
	1130	150	7.70	17.2	~~6.~~5.19	2.68	30.54	1.0	11	201	
	1135	180	7.72	17.2	6.39	2.64	30.63	1.0	11	200	
	1140	210	7.73	17.2	6.32	2.59	30.96	1.0	11	199	
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 sampling?							NA				
Previous Field measurement (10/3/2005)			7.93	14000	6.1	3.19	30.2	0.8		153	
Are measurements consistent with previous?							NA				

Sample Time 1141 Sample Location: pump tubing ____ well port X spigot ____ bailer ____ other ____
Comments: Water is green in color

Initial Depth to Water (ft BTOC): 109.53
WD (Well Depth - from table) ft btc (214.84)
SWH (Standing Water Height) = WD-Initial Depth 105.31
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in) ~~3.10~~
One Casing Volume = D*SWH 69.50
Three Casing Volumes = 210

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

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions

Sampling Event 2006-GMP-093-Q1
Date
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Well/Sample Number MW-24BR-093 **QC Sample ID** NA QC Sample Time

Purge Start Time 1300 Purge Method 2in Grund Ded. Pump NO

Flow Cell: Y / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) [redacted] 2.GPM

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
115.45	1325	[redacted]50	7.88	17.7	12.2	7.22	30.92	1.1	12	-181	
[redacted]	[redacted]	[redacted]	7.87	17.3	[redacted]5.34	2.12	31.40	1.0	11	-347	Purge stoped water
		225 90Gal									below pump. Will
		300									return in 24 Hrs to
		375									Sample.
		450									
		525									
		650									
114.53	0900	15Gal	7.05	16.4	[redacted]4.95	3.75	24.96	1.0	11	-230	March 16 Sample taken
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 sampling?							NA				
Previous Field measurement (12/15/2005)			7.71	18500	10.2	2.25	28.2	1.1		-291	
Are measurements consistent with previous?							NA				

Sample Time 0905 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): 108.25

WD (Well Depth - from table) ft btc (441)

SWH (Standing Water Height) = WD-Initial Depth 332.75

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)

One Casing Volume = D*SWH 219.61

Three Casing Volumes = 658.9

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

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation
Comments:				

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

Odor: none sulphur, organic, other

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

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions sunny, 75°F

Sampling Event 2006-GMP-093-Q1
Date 3/9/06
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Well/Sample Number MW-25-093 **QC Sample ID** NA QC Sample Time NA
Purge Start Time ~~1250~~ ~~1251~~ / ~~1253~~ 1252 Purge Method pump Ded. Pump Yes #
Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 37 gal Purge Rate (gpm)/(mLpm) 7.5 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
94.36	~~1255~~ 65	22.5	7.25	2.22	12.1	7.15	29.20	0.1	1.5	211	
94.81	~~1259~~ 00	45	7.26	2.50	9.4	7.34	29.16	0.1	1.7	209	
94.70	1302 1	67.5	7.28	2.69	4.7	7.40	29.11	0.1	1.8	210	
	1303		7.28	2.75	3.0	7.40	29.19	0.1	1.8	210	
											finished 1313
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 sampling?							NA				
Previous Field measurement (12/14/2005)			8.4	1220	6.13	7.97	28.85	0.06		156	
Are measurements consistent with previous?			~	N	Y	Y	NA	~		~	

Sample Time 1304 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____
Comments: Didn't remove transducer

Initial Depth to Water (ft BTOC): 87.97
WD (Well Depth - from table) ft btc (106.54)
SWH (Standing Water Height) = WD-Initial Depth 18.57
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)
One Casing Volume = D*SWH 12.26
Three Casing Volumes = 36.8 gal

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: C-101231

Initial DTW / Before Removal		has transducer Approx. 5 min After Reinstallation		**If Transducer** didn't remove
Time	Initial DTW	Time	Final DTW	Time of Removal ____
				Time of Reinstallation ____
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, (green) slight **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions clear warm Breezy

Sampling Event 2006-GMP-093-Q1
Date 7 March 06
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Well/Sample Number MW-26-093 **QC Sample ID** NA QC Sample Time _____

Purge Start Time 1229 Purge Method 3in Grund Ded. Pump Yes

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) 5 GPM

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
	1230	5 Gal	8.06	4.20	104	7.39	27.14	0.2	2.8	218	
	1233	20	7.50	4.04	98.5	5.33	28.88	0.2	2.6	221	– Stoped Purging due to
	1236	35									well going dry, Will
	1239	50									return in 24 hrs to
											sample. Approx 25 Gal Total purge!
8 March	1307		7.98	3.84	6.79	9.16	29.14	0.2	3.0	170	

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 sampling?						NA				
Previous Field measurement	(12/12/2005)	7.33	3440	79.1	9.93	29	0.2		161	
Are measurements consistent with previous?						NA				

Sample Time 1308 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): 47.65

WD (Well Depth - from table) ft btc (70.05)

SWH (Standing Water Height) = WD-Initial Depth 22.41

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4in) ~~0.66~~

One Casing Volume = D*SWH 14.79

Three Casing Volumes = 44.35

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal _____
Time	Initial DTW	Time	Final DTW	Time of Reinstallation _____
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions

Sampling Event 2006-GMP-093-Q1
Date 3/6/06
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Well/Sample Number MW-27-020-093 **QC Sample ID** NA QC Sample Time NA

Purge Start Time 1035 Purge Method 3 CV Ded. Pump BF-2

Flow Cell: (Y) N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) 1

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
6.037	1038	3.0	7.26	1.07	~~12~~ 12.4	3.73	19.48	0.05	0.67	-68	
6.037	1040	5.0	7.48	0.99	7.60	2.35	18.24	0.04	0.64	-90	
6.049	1042	7.0	7.64	0.99	5.94	1.43	18.34	0.04	0.64	-98	
6.049	1044	9.0	7.76	1.01	4.82	1.01	18.23	0.04	0.63	-116	
6.049	1046	11.0	7.87	0.94	4.65	0.66	18.20	0.04	0.61	-132	
6.10	1048	13.0	7.94	0.92	4.23	0.58	18.20	0.04	0.59	-144	
6.11	1050	15.0	7.98	0.92	4.30	0.43	18.17	0.04	0.59	-147	
6.12	1052	17.0	8.01	0.91	4.21	0.38	18.16	0.04	0.58	-153	
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 sampling?			Y	Y	Y	Y	NA	—	—	Y	
Previous Field measurement (12/14/2005)			7.58	1120	0.74	2.19	18.69	0.05		-171	
Are measurements consistent with previous?			Y	N	N	N	NA	Y	—	Y	

Sample Time 1055 Sample Location: pump tubing X well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): 5.59

WD (Well Depth - from table) ft btc (14.4)

SWH (Standing Water Height) = WD-Initial Depth 8.81

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in) .17

One Casing Volume = D*SWH _____

Three Casing Volumes = _____

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal NA
Time	Initial DTW	Time	Final DTW	Time of Reinstallation NA
1019	5.59	1110	5.69	
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions

Sampling Event 2006-GMP-093-Q1
Date 3/7/06
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Well/Sample Number MW-27-085-093 060
QC Sample ID NA
QC Sample Time NA
Purge Start Time 1045
Purge Method 3CV
Ded. Pump BF-2
Flow Cell: (Y) / N
Min. Purge Volume (gal)/(L) 27
Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
7.85 18	1047	4	7.77	14.1	3.99	6.41	21.54	0.81	8.7	-102	
7.18	1049	8	7.73	14.0	3.46	5.45	21.54	0.81	8.7	-100	
7.18	1051	12	7.72	13.9	3.39	4.46	21.50	0.80	8.6	-106	
7.18	1053	16	7.73	13.8	3.29	3.99	21.57	0.80	8.6	-111	
7.18	1055	20	7.75	13.8	3.11	3.67	21.58	0.80	8.6	-115	
7.18	1057	22	7.75	13.8	3.37	3.05	21.55	0.80	8.5	-116	
7.18	1059	24	7.76	13.7	2.63	2.78	21.58	0.79	8.5	-117	
7.18	1101	26	7.76	13.7	2.99	2.46	21.55	0.79	8.5	-118	
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 sampling?							NA				
Previous Field measurement (2/8/2006)			7.09	21100	2.14	2.58	22	1.3		-82	
Are measurements consistent with previous?							NA				

Sample Time 1105 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 6.74
WD (Well Depth - from table) ft btc ~~(80)~~ 59
SWH (Standing Water Height) = WD-Initial Depth 52.26
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)
One Casing Volume = D*SWH 8.84
Three Casing Volumes = 26.65

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal 1025 / Time of Reinstallation 1121
1024	6.74	1126	6.90	

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 085 Field Conditions

Sampling Event 2006-GMP-093-Q1
Date 3/6/06
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Well/Sample Number MW-27-~~068~~-093 **QC Sample ID** NA QC Sample Time ____

Purge Start Time ~~1115~~ M 1114 Purge Method ____ Ded. Pump ____

Flow Cell: Y / N Min. Purge Volume (gal)/(L) ____ Purge Rate (gpm)/(mLpm) 2 - 1.5

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
8.~~20~~09	1116	4.0	7.60	14.8	6.03	0.96	20.81	0.86	9.2	-69	
8.20	1118	8.0	7.60	15.1	4.64	0.56	21.22	0.88	9.3	-78	
7.89	1120	11.0	7.60	15.3	2.95	0.33	21.54	0.88	9.4	-88	turn down to 1.5 gpm
7.89	1122	14.0	7.66	15.4	3.85	0.23	21.59	0.90	9.6	-91	
7.91	1124	17.0	7.61	15.6	5.42	0.22	21.59	0.91	9.7	-92	
7.91	1126	20.0	7.61	15.7	3.48	0.20	21.65	0.92	9.7	-92	
7.91	1128	23.0	7.62	15.8	4.25	0.16	21.67	0.92	9.8	-92	
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 sampling?							NA				
Previous Field measurement (12/15/2005)			6.52	10000	0.68	2.89	20.71	0.56		-134	
Are measurements consistent with previous?							NA				

Sample Time 1130 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 6.68

WD (Well Depth - from table) ft btc (59)

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

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal ____
Time	Initial DTW	Time	Final DTW	Time of Reinstallation ____
1112	6.68	1149	6.73	
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions WARM, SUNNY

Sampling Event 2006-GMP-093-Q1
Date 3/9/06
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Well/Sample Number MW-28-025-093 **QC Sample ID** NA QC Sample Time NA
Purge Start Time 0919 Purge Method 3 WV Ded. Pump YES
Flow Cell: Y / (N) Min. Purge Volume (gal)/(L) 5.1g Purge Rate (gpm)/(mLpm) 1.5gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
12.92	0921	3	7.59	1.15	402	7.0	21.49	6.05	0.73	21	
12.92	0923	6	7.64	1.14	21.0	4.85	21.52	0.05	0.73	-12	
12.92	0925	9	7.66	1.14	10	4.10	21.53	0.05	0.73	-34	
12.92	0927	12	7.67	1.14	7.35	3.52	21.53	0.05	0.73	-54	
11.76	0940										

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 sampling?	YES	Y	YES	NO	NA	YES	YES	NO	
Previous Field measurement (12/16/2005)	7.16	1390	7.17	2.52	23.1	0.1		-69	
Are measurements consistent with previous?	Y	Y	Y	Y	NA	Y		Y	

Sample Time 0930 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ____

PGE 2005 01B

Initial Depth to Water (ft BTOC): 11.65
WD (Well Depth - from table) ft btc (21.13)
SWH (Standing Water Height) = WD-Initial Depth 10
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)
One Casing Volume = D*SWH 1.7
Three Casing Volumes = 5.1

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal NA
Time	Initial DTW	Time	Final DTW	Time of Reinstallation NA

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green
Odor: none, sulphur, organic, other
Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions

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Date 3/6/06
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Well/Sample Number MW-28-090-093 **QC Sample ID** NA QC Sample Time
Purge Start Time 1418 Purge Method 3 CV Ded. Pump RF-2
Flow Cell: Y / N Min. Purge Volume (gal)/(L) 44 Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
14.21	14:10	8	8.04	6.35	8.20	1.35	21.07	.34	4.01	-137	
14.21	14:14	16	8.03	6.42	~~14.27~~ 5.61	1.31	21.22	.35	4.11	-143	
14.25	14:18	24	8.18	6.86	2.82	1.49	21.72	.37	4.33	-148	
14.26	14:22	32	8.18	6.92	2.49	1.20	21.78	.37	4.35	-149	
14.22	14:26	40	8.21	6.88	2.63	0.34	21.76	.37	4.34	-151	
14.22	14:30	48	8.22	6.83	2.86	0.26	21.76	.37	4.36	-151	
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 sampling?							NA				
Previous Field measurement (2/9/2006)			7.55	8830	1.58	2.76	22.07	0.5		-156	
Are measurements consistent with previous?							NA				

Sample Time 1432 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 13.24
WD (Well Depth - from table) ft btc (98.36)
SWH (Standing Water Height) = WD-Initial Depth 85.12
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in) .17
One Casing Volume = D*SWH 14.47
Three Casing Volumes = 43.41

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation
1402	13.24	1445	13.24	
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions Sunny, windy

Sampling Event 2006-GMP-093-Q1
Date 3/13/06
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Well/Sample Number MW-30-030-093 **QC Sample ID** NA QC Sample Time NA
Purge Start Time 1207 Purge Method 3WV Ded. Pump ~~Yes~~ NO Redi-flo MOBILE
Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 7 Purge Rate (gpm)/(mLpm) 1 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
14.27	1207	0	~~6.95~~ 7.01	11.7	14	5.37	19.75	0.66	7.2	15	
14.60	1208	1	8.47	11.5	6	6.81	21.19	0.65	7.1	13	
14.61	1209	2	9.10	11.4	3	8.18	20.57	0.66	7.1	11	
14.63	1210	3	7.48	54.8?	>100	3.22	24.81	3.63	32.9	-92	Very Silty/Brackish Brown?
14.64	1211	4	7.39	55.	>100	2.32	25.14	3.65	33.0	-95	" Also Frothy
14.64	1213	6	7.39	55.2?	>100	1.65	25.36	3.67	33.2	-96	"
14.64	1214	7	7.39	55.4	>100	1.33	25.50	3.69	33.3	-99	"
14.65	1216	9	7.39	55.6	>100	1.15	25.61	3.70	33.4	-99	"

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 sampling?	✓	✓	✓	✓	NA	✓	✓	✓
Previous Field measurement (12/15/2005)	6.29	38900	5.47	2.95	26.41	2.49		-100
Are measurements consistent with previous?	NO	NO	NO	NO	NA	NO		Yes

Sample Time 1220 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: Pump removed-Seized up / Parameters changed considerably after Silts start purging TOTAL Purged = 10 GALS

Initial Depth to Water (ft BTOC): 14.18 14.27
WD (Well Depth - from table) ft btc (26.9)
SWH (Standing Water Height) = WD-Initial Depth ~~12.73~~ 12.63
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)
One Casing Volume = D*SWH ~~2.21~~ 2.05
Three Casing Volumes = ~~7~~ 13 .17 / 2.21

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE2005 01B

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal	1155
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	1230
14.27'	1155	1235	14.30'		

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green
Odor: none, sulphur, organic, other
Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions warm, sunny

Sampling Event 2006-GMP-093-Q1
Date 3/9/06
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Well/Sample Number MW-30-050-093 **QC Sample ID** NA QC Sample Time NA
Purge Start Time 1235 Purge Method 3WV Ded. Pump Y/S
Flow Cell: Y / N Min. Purge Volume (gal)/(L) ~~2gpm~~ 75 Purge Rate (gpm)/(mLpm) 2 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
15.12	1242	14	7.53	9.49	12.39	5.74	25.65	0.53	6.01	-63	
15.11	1249	28	7.52	9.07	1.39	3.41	25.60	0.50	5.71	-81	
15.10	1256	42	7.53	8.99	0.51	2.88	25.62	0.50	5.66	-80	
15.13	1303	56	7.54	8.90	0.39	2.68	25.56	0.49	5.61	-81	
15.12	1310	70	7.53	8.85	0.63	2.54	25.58	0.49	5.58	-81	
15.12	1317	84	7.52	8.80	0.74	2.42	25.55	0.49	5.55	-81	
14.81	1327										
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 sampling?							NA				
Previous Field measurement (12/16/2005)			7.16	8840	0.24	2.49	25.1	0.5		-263	
Are measurements consistent with previous?							NA				

Sample Time 1320 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 14.72
WD (Well Depth - from table) ft btc (52.6)
SWH (Standing Water Height) = WD-Initial Depth 38
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)
One Casing Volume = D*SWH 25
Three Casing Volumes = 75

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

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer
Time	Initial DTW	Time	Final DTW	Time of Removal / Time of Reinstallation

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions Hot & Clear

Sampling Event 2006-GMP-093-Q1
Date 3/15/06
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Well/Sample Number MW-31-060-093 **QC Sample ID** MW-93-093 QC Sample Time 1530 FD
Purge Start Time 1500 Purge Method DC Pump Ded. Pump yes
Flow Cell: Y / N Min. Purge Volume (gal)/(L) 43gal Purge Rate (gpm)/(mLpm) 7gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
	1501	7	7.71	2.70	6.8	6.95	28.68	.13	1.7	215	
	1503	21	7.72	2.71	6.2	6.96	28.66	.13	1.8	217	
	1505	35	7.68	2.74	4.1	7.02	28.67	.14	1.8	217	
	1507	43	7.68	2.75	4.6	7.01	28.69	.14	1.8	217	

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 sampling?					NA				
Previous Field measurement (12/13/2005)	8.46	2870	4.71	6.75	27.95	0.14		119	
Are measurements consistent with previous?					NA				

Sample Time 1510 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 42.43
WD (Well Depth - from table) ft btc (64)
SWH (Standing Water Height) = WD-Initial Depth 21.57
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in) .66
One Casing Volume = D*SWH 14.23 X3
Three Casing Volumes = 42.70

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

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer
Time	Initial DTW	Time	Final DTW	Time of Removal ✓
1452	42.43	1525	42.58	Time of Reinstallation ✓

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions clear Warm

Sampling Event 2006-GMP-093-Q1
Date 15 March 06
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Well/Sample Number MW-31-135-093 **QC Sample ID** NA QC Sample Time

Purge Start Time 0952 Purge Method 2in Grund Ded. Pump NO

Flow Cell: Ⓨ / N Min. Purge Volume (gal)/(L) 46.47 Purge Rate (gpm)/(mLpm) 2 GPM

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
45.57	0957	10	7.45	10.90	2.31	3.06	28.43	0.6	7	47	
45.58	1002	20	7.55	12.70	17.4	2.91	28.85	0.7	8	30	
45.60	1007	30	7.62	13.1	45.2	2.92	28.97	0.8	9	24	water is very turbid
45.60	1012	40	7.69	13.2	219	2.90	28.99	0.8	9	26	
45.60	1017	50	7.73	13.3	99.0	2.85	29.01	0.8	9	28	
45.62	1020	56	7.75	13.5	19.4	3.63	28.70	0.8	9	33	
45.63	1023	62	7.75	13.4	6.60	3.05	28.84	0.8	9	33	
	~~1026~~	~~68~~									
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 sampling?							NA				
Previous Field measurement (12/14/2005)			8.77	7980	4.53	4.13	27.9	0.46		124	
Are measurements consistent with previous?							NA				

Sample Time 1024 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 44.34

WD (Well Depth - from table) ft btc (135.45)

SWH (Standing Water Height) = WD-Initial Depth 91.11

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)

One Casing Volume = D*SWH 15.48

Three Casing Volumes = 46.47

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal 0943
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1035
0943	44.34	1040	44.47	

Comments:

Color: clear, grey, yellow, brown, black, (cloudy), green **Odor:** (none), sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, (Silt), Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions warm, Windy

Sampling Event 2006-GMP-093-Q1
Date 3/10/06
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Well/Sample Number MW-32-020-093 **QC Sample ID** NA QC Sample Time NA
Purge Start Time 1042 Purge Method 3 WV Ded. Pump yes
Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 7gal Purge Rate (gpm)/(mLpm) 1gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
-	1045	3	7.42	9.81	~~0.58~~ 482	5.59	24.02	0.55	6.18	-108	
9.21	1047	5	7.97	9.79	520	1.72	24.13	0.55	6.17	-114	
9.93	1049	7	7.37	9.79	638	0.82	24.10	0.55	6.16	-120	
9.93	1050	8	7.37	9.79	577	0.62	24.09	0.55	6.17	-122	
9.93	1057	9	7.36	9.79	377	0.49	24.09	0.55	6.17	-124	
9.90	1052	10	7.36	~~9~~ 9.80	269	0.44	24.08	0.55	6.17	-125	
7.37	1106										

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 sampling?						NA				
Previous Field measurement	(12/16/2005)	7.19	33900	260	2.65	24.5	2.14		-107	
Are measurements consistent with previous?						NA				

Sample Time 1055 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 7.32
WD (Well Depth - from table) ft btc (19.6)
SWH (Standing Water Height) = WD-Initial Depth 12.28
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)
One Casing Volume = D*SWH 2.08
Three Casing Volumes = 6.24

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE 2005 01B

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions warm, sunny

Sampling Event 2006-GMP-093-Q1
Date 3/10/06
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Well/Sample Number MW-32-035-093 **QC Sample ID** NA QC Sample Time NA
Purge Start Time 1108 Purge Method 3 WV Ded. Pump yes
Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 60gal Purge Rate (gpm)/(mLpm) 2 gpm

* Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
10.79	1118 le	10	7.89	9.59	33.1	3.71	25.14	0.54	6.04	-142	
10.2	1118	20	7.90	9.60	11.1	0.41	25.11	0.54	6.04	-149	
10.13	1123	30	7.90	9.58	3.11	0.22	25.21	0.53	6.04	-155	
10.25	1128	40	7.90	9.59	2.39	0.16	25.15	0.54	6.04	-157	
10.82	1133	50	7.90	9.58	1.23	0.12	25.24	0.53	6.03	-160	
10.91	1138	60	7.90	9.57	1.01	0.09	25.23	0.53	6.03	-161	
7.10	1152										

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 sampling?						NA				
Previous Field measurement	(12/16/2005)	7.71	11200	0.64	2.43	24.68	0.64		-141	
Are measurements consistent with previous?						NA				

Sample Time 1145 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: * WL tape not working well. WLs are dubious.

Initial Depth to Water (ft BTOC): 7.03
WD (Well Depth - from table) ft btc (37.15)
SWH (Standing Water Height) = WD-Initial Depth 30
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)
One Casing Volume = D*SWH 19.8
Three Casing Volumes = 59.4

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE 2005 01B

Initial DTW / Before Removal		If Transducer: ~~Approx. 5-min After Reinstallation~~		Time of Removal ____
Time	Initial DTW	Time	Final DTW	Time of Reinstallation ____
	NA			
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions

Sampling Event 2006-GMP-093-Q1
Date 3/9/06
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Well/Sample Number MW-33-040-093 **QC Sample ID** NA QC Sample Time _____

Purge Start Time 1134 Purge Method _____ Ded. Pump _____

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 5.0 Purge Rate (gpm)/(mLpm) 1

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
	1135	well purged dry before a reading could be collected. well return tomorrow to sample with bailer									
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 sampling?							NA				
Previous Field measurement	(12/12/2005)		8.23	14500	565	4.85	22.02	0.78		45	
Are measurements consistent with previous?							NA				

Sample Time _____ Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): 32.60

WD (Well Depth - from table) ft btc (41.84)

SWH (Standing Water Height) = WD-Initial Depth 9.24

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in) 2 in .17

One Casing Volume = D*SWH 1.57

Three Casing Volumes = 4.7

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal 1123
Time	Initial DTW	Time	Final DTW	Time of Reinstallation _____
1122	32.60			

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions

Sampling Event 2006-GMP-093-Q1
Date 3/8/06
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Well/Sample Number MW-33-090-093 **QC Sample ID** NA QC Sample Time _____

Purge Start Time 951 Purge Method _____ Ded. Pump _____

Flow Cell (Y) N Min. Purge Volume (gal)/(L) 110 Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
33.10	958	14	8.14	9.8	5.23	1.57	26.60	0.56	6.2	-49	
33.12	1005	28	8.13	10.3	4.35	0.51	26.82	0.58	6.4	-40	
33.10	1012	42	8.14	10.2	2.76	0.39	26.86	0.57	6.3	-41	
33.11	1019	56	8.16	10.2	3.53	0.36	26.66	0.57	6.3	-41	
33.13	1026	70	8.17	10.2	2.86	0.34	26.80	0.57	6.3	-42	
33.11	1033	84	8.17	10.2	2.83	0.27	26.85	0.57	6.3	-43	
33.12	1040	98	8.17	10.2	2.99	0.26	26.82	0.58	6.3	-42	
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 sampling?							NA				
Previous Field measurement (12/13/2005)			7.66	9310	0.94	2.29	26.6	0.52		-43	
Are measurements consistent with previous?							NA				

Sample Time 1045 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): 32.70

WD (Well Depth - from table) ft btc (88.28)

SWH (Standing Water Height) = WD-Initial Depth 55.6

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in) .66

One Casing Volume = D*SWH 36.69

Three Casing Volumes = 110.1

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal 946
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1051
945	32.70	1121	32.65	

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PG-E Topock **Sampling Event**
Job Number **Date** 3/4/06
Field Team Field Conditions **Page** ___ of ___

Well/Sample Number MW-33-150 **QC Sample ID** NA QC Sample Time NA
Purge Start Time 858 Purge Method: 3 Casing Volume Ded. Pump None
Flow Cell: Y / N Min. Purge Volume (gal)/(L) 60 Purge Rate (gpm)/(mLpm) 3

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv	Comments (See descriptors below)
~~900~~ 34.7	900	6	6.99	18.8	5.12	2.60	25.39	1.13	11.7	28	
~~34~~.73	903	15	7.37	18.9	3.75	0.86	26.28	1.13	11.7	9	
34.75	906	24	7.69	19.6	3.50	0.61	26.40	1.18	12.1	-9	
34.75	909	33	7.83	19.8	3.17	0.47	26.55	1.19	12.3	-18	
34.78	912	42	7.95	20.2	3.23	0.35	26.74	1.21	12.5	-37	
34.80	915	51	8.00	20.2	3.63	0.33	26.78	1.21	12.5	-48	
34.82	918	60	8.04	20.4	2.81	0.29	26.79	1.23	12.6	-56	
34.83	921	69	8.06	20.4	4.01	0.26	26.59	1.21	12.5	-55	
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 Stabilize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 925 Sample Location: pump tubing X well port ___ spigot ___ bailer ___ other ___
Comments: ___

Initial Depth to Water (ft BTOC): 33.50
WD (Well Depth - from table) ft btoc: ~150
SWH (Standing Water Height) = WD-Initial Depth 116.5
D (Volume as per diameter) 2" = 0.17, 4"= 0.66, 1" = 0.041 14.8
One Casing Volume = D*SWH 19.8
Three Casing Volumes = 59.4

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

TRANSDUCER: Enter data even when transducer is not removed

Before Removal		Approx. 5 min After Reinstallation		Time of Removal 851
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 935
850	33.50	~~915~~ 940	34.60	
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions

Sampling Event 2006-GMP-093-Q1
Date 3/6/06
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Well/Sample Number MW-33-210-093 **QC Sample ID** NA QC Sample Time ____

Purge Start Time 1228 Purge Method 3 CV Ded. Pump BF-2

Flow Cell: (Y) N Min. Purge Volume (gal)/(L) 97 Purge Rate (gpm)/(mLpm) 3

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
35.91	12:33	15	7.99	16.9	2.77	5.63	27.23	1.00	10.5	12	
35.93	1238	30	8.00	17.0	4.62	4.52	27.59	1.00	10.5	-44	
35.93	1243	45	7.99	16.9	5.65	0.45	27.6	1.00	10.5	-55	
35.93	1248	60	7.98	16.8	3.44	0.29	27.64	1.00	10.4	-54	
35.93	1253	75	7.98	16.7	3.07	0.24	27.65	0.99	10.4	-47	
35.98	1258	90	7.98	16.7	3.26	0.22	27.64	0.98	10.3	-42	
36.00	1301	99	7.98	16.6	3.03	0.21	27.64	0.98	10.3	-37	
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 sampling?							NA				
Previous Field measurement (2/7/2006)			7.4	22800	0.7	2.7	27.5	1.4		-14	
Are measurements consistent with previous?							NA				

Sample Time 1304 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 33.31

WD (Well Depth - from table) ft btc (223)

SWH (Standing Water Height) = WD-Initial Depth 189.69

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in) .17

One Casing Volume = D*SWH[1] 32.24

Three Casing Volumes = 96.74

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

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal ____
Time	Initial DTW	Time	Final DTW	Time of Reinstallation ____
1225	33.31	1322	33.36	
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions

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Well/Sample Number MW-34-055-093 **QC Sample ID** NA QC Sample Time ____

Purge Start Time 1210 Purge Method ____ Ded. Pump ____

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 99 Purge Rate (gpm)/(mLpm) ____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity ~~✓~~ NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
6.76	1215	10	7.96	8.70	27.9	0.69	20.84	0.48	5.48	-25	
6.79	1220	20	7.94	8.64	34.7	0.17	20.54	0.48	5.45	-124	
6.80	1226	32	7.94	8.61	42.8	0.04	20.50	0.47	5.43	-121	
6.80	1232	44	7.94	8.56	3.80	0.00	20.43	0.47	5.39	-117	
6.80	1238	56	7.94	8.58	3.21	0.11	20.46	0.47	5.40	-107	
6.81	1244	70	7.94	8.52	3.65	0.00	20.41	0.47	5.37	-106	
6.82	1250	82	7.94	8.49	3.06	0.00	20.40	0.47	5.35	-106	
6.81	1256	94	7.94	8.46	2.42	0.00	20.41	0.47	5.33	-106	
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 sampling?							NA				
Previous Field measurement (12/14/2005)			7.3	6610	0.45	2.08	20.28	0.35		-124	
Are measurements consistent with previous?							NA				

Sample Time 1305 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: ~~✓~~ from Horiba

Initial Depth to Water (ft BTOC): ~~33.51~~ M 6.56

WD (Well Depth - from table) ft btc (56.6)

SWH (Standing Water Height) = WD-Initial Depth 50.04

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)

One Casing Volume = D*SWH 33.02

Three Casing Volumes = 99

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal NA
Time	Initial DTW	Time	Final DTW	Time of Reinstallation NA
~~1225~~ 1204	~~33.51~~ 6.56 M	1314	6.65	
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions warm, sunny

Sampling Event 2006-GMP-093-Q1
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Well/Sample Number MW-34-080-093 **QC Sample ID** NA QC Sample Time NA
Purge Start Time 0958 Purge Method 3 WV Ded. Pump yes
Flow Cell: Y / N Min. Purge Volume (gal)/(L) 154 gal Purge Rate (gpm)/(mLpm) 3 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
8.92	1005	21	7.39	12.9	1.49	10.25	20.80	0.74	8.0	178	
8.97	1012	42	7.39	14.2	1.18	4.26	21.31	0.84	9.0	71	
8.97	1019	63	7.39	15.1	0.80	3.28	21.53	0.88	9.4	26	
8.97	1026	84	7.39	15.1	0.47	2.81	21.54	0.88	9.4	8	
8.99	1033	105	7.39	15.1	3.17	2.51	21.51	0.88	9.4	-0	
9.01	1040	126	7.39	15.1	0.27	2.32	21.51	0.88	9.4	-7	
9.02	1047	147	7.38	15.1	0.33	2.20	21.51	0.88	9.3	-12	
	~~1054~~	~~168~~									
6.91	1103										
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 sampling?							NA				
Previous Field measurement (2/8/2006)			7.17	16400	0.99	2.63	27.25	1		-22	
Are measurements consistent with previous?							NA				

Sample Time 1100 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 6.63
WD (Well Depth - from table) ft btc (84.3)
SWH (Standing Water Height) = WD-Initial Depth 77.6
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)
One Casing Volume = D*SWH 51.48
Three Casing Volumes = 154

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE 2005 01B

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal ____
Time	Initial DTW	Time	Final DTW	Time of Reinstallation ____
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions

Sampling Event 2006-GMP-093-Q1
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Well/Sample Number MW-34-100-093 **QC Sample ID** MW-94-093 QC Sample Time 1430

Purge Start Time 1338 Purge Method ____ Ded. Pump ____

Flow Cell: (Y) N Min. Purge Volume (gal)/(L) 55 Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
8.43	1342	8	8.18	18.4	6.93	1.97	21.25	1.05	11.4	-2	
8.42	1346	16	8.20	18.3	3.84	0.70	22.35	1.05	11.5	-20	
8.43	1350	24	8.17	18.6	2.95	0.05	22.52	1.11	11.6	-14	
8.41	1354	32	8.14	18.6	2.96	0.00	22.59	1.11	11.6	-11	
8.42	1358	40	8.14	18.6	6.46	0.00	22.62	1.11	11.6	-9	
8.42	1402	48	8.13	18.6	3.00	0.00	22.61	1.11	11.6	-8	
8.43	1406	56	8.13	18.6	4.69	0.00	22.62	1.11	11.5	-8	
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 sampling?							NA				
Previous Field measurement (2/8/2006)			7.54	20100	0.98	2.5	22.83	1.2		65	
Are measurements consistent with previous?							NA				

Sample Time 1410 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 7.43

WD (Well Depth - from table) ft btc (117) 109.57

SWH (Standing Water Height) = WD-Initial Depth 109.57

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)

One Casing Volume = D*SWH 18.6

Three Casing Volumes = 55

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal NA / Time of Reinstallation NA
1335	7.43	1422	7.43	

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions

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Well/Sample Number MW-35-060-093 **QC Sample ID** NA QC Sample Time
Purge Start Time 1354 Purge Method Grund Ded. Pump
Flow Cell: (Y) N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1 GPM

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
29.63	1357	3	7.62	14.9	23.2	5.69	25.25	0.9	10	96	
29.65	1400	6	7.32	9.34	11.5	3.38	27.13	0.5	6.2	78	
29.65	1403	9	7.28	9.80	4.75	3.09	27.16	0.6	6.4	70	
29.65	1406	12	7.26	14.6	2.51	2.83	27.03	0.9	9	57	
29.66	1409	15	7.24	15.0	1.57	2.79	27.02	0.9	10	51	
29.67	1412	18	7.24	16.2	0.98	2.87	26.85	1.0	11	47	
29.67	1415	21	7.23	15.5	3.00	2.92	26.87	0.9	10	42	
	1418	24									
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 sampling?							NA				
Previous Field measurement (12/14/2005)			8.34	5800	0.32	3.97	25.95	0.31		95	
Are measurements consistent with previous?							NA				

Sample Time 1416 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 29.22
WD (Well Depth - from table) ft btc (56.8)
SWH (Standing Water Height) = WD-Initial Depth 27.58
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)
One Casing Volume = D*SWH 4.68
Three Casing Volumes = 14.06

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal 1347
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1425
1346	29.22	1430	29.25	
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions

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Date 3/10/06
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Well/Sample Number MW-35-135-093 **QC Sample ID** MW-95-093 QC Sample Time 1345

Purge Start Time 1237 Purge Method ____ Ded. Pump ____

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 66 Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
30.10	1241	8	7.88	12.2	-	8.39	25.94	0.70	~~0.70~~ 7.6	230	
30.10	1246	18	7.91	12.4	15.4	4.33	25.87	0.71	7.7	188	
30.13	1251	28	7.96	12.3	4.92	3.53	25.95	0.71	7.7	157	
30.14	1256	38	7.98	12.3	3.28	3.07	26.22	0.70	7.6	137	
30.14	1301	48	7.99	12.4	2.23	2.93	26.02	0.71	7.7	125	
30.15	1306	58	7.98	12.4	1.63	2.81	26.13	0.71	7.7	120	
30.15	1311	68	7.98	12.4	1.14	2.56	26.50	0.71	7.7	110	
30.15	1316	78	7.98	12.5	1.00	2.51	26.48	0.72	7.7	106	
30.15	1321	88	7.98	12.4	1.09	2.44	25.96	0.71	7.7	103	
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 sampling?							NA				
Previous Field measurement (12/14/2005)			8.76	8480	0.05	3.17	26.27	0.47		38	
Are measurements consistent with previous?							NA				

Sample Time 1322 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 29.7

WD (Well Depth - from table) ft btc (158.7)

SWH (Standing Water Height) = WD-Initial Depth 129

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)

One Casing Volume = D*SWH 21.93

Three Casing Volumes = 65.79

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal 1229 / Time of Reinstallation 1339
1221	29.70	1345	29.72	

Comments:

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

Odor: (none), sulphur, organic, other

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

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 Field Conditions

Sampling Event 2006-GMP-093-Q1
Date 3/7/06
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Well/Sample Number MW-36-020-093 **QC Sample ID** NA QC Sample Time NA
Purge Start Time 0914 Purge Method 3 WV Ded. Pump peristaltic
Flow Cell: Y / N Min. Purge Volume (gal)/(L) 2gal Purge Rate (gpm)/(mLpm) 0.26gpm.

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
7.89	0919	1.3	7.80	18.5	1.89	3.79	24.29	1.10	11.5	-134	
7.89	0924	2.6	7.82	18.7	1.92	3.00	24.31	1.12	11.6	-144	
7.86	0929	3.9	7.83	18.8	1.82	2.64	24.37	1.12	11.6	-147	
7.86	0934	5.2	7.82	18.9	0.99	2.50	24.38	1.13	11.7	-148	
7.91	0947										
									1005	Remove tubing	

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 sampling?						NA				
Previous Field measurement	(12/15/2005)	7.39		0.56	2.36	24.89	2.65		-112	
Are measurements consistent with previous?						NA				

Sample Time 0935 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: disturbed transducers in both MW-36-20 + MW36-70 to get WL tape down
removed tubing - put in bag for storage

Initial Depth to Water (ft BTOC): 7.88 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 101664

WD (Well Depth - from table) ft btc (22.7)
SWH (Standing Water Height) = WD-Initial Depth 14.82
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (1 in)
One Casing Volume = D*SWH .5928
Three Casing Volumes = 1.77

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

14.82 × 0.04 = .5928 ; 2 × .5928 = 1.7784 ; 3

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 Field Conditions hot, sunny

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Well/Sample Number MW-36-040-093 **QC Sample ID** NA QC Sample Time
Purge Start Time 1142 Purge Method 3 WV Ded. Pump peristaltic
Flow Cell: Y / (N) Min. Purge Volume (gal)/(L) 3.20 Purge Rate (gpm)/(mLpm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
15.48	1147	1.25	7.68	17.4	0.73	7.40	24.71	1.03	10.8	-149	1139 transducer disturbed
15.49	1152	2.50	7.68	17.3	3.60	4.41	24.64	1.02	10.7	-160	
15.485	1157	3.75	7.69	17.2	0.72	3.72	24.55	1.01	10.6	-160	
15.49	1202	5.00	7.71	17.0	1.12	3.30	24.57	1.00	10.5	-166	

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 sampling?						NA				
Previous Field measurement	(2/9/2006)	7.39	12600	2.71	2.66	25.21	0.7		-91	
Are measurements consistent with previous?						NA				

Sample Time 1205 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: both transducers - MW-36-040 & 090 disturbed while sampling removed tubing & bagged

Initial Depth to Water (ft BTOC): 15.34
WD (Well Depth - from table) ft btc ~~(72.48)~~ 42.75
SWH (Standing Water Height) = WD-Initial Depth 27.41
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (1 in)
One Casing Volume = D*SWH 1.09
Three Casing Volumes = 3.20

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: 101013

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, (sulphur), organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 Field Conditions warm, sunny

Sampling Event 2006-GMP-093-Q1
Date 3/7/06
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Well/Sample Number MW-36-050-093 **QC Sample ID** MW-96-093 QC Sample Time 1045
Purge Start Time 1050 Purge Method 3WV Ded. Pump peristaltic
Flow Cell: Y / (N) Min. Purge Volume (gal)/(L) 5gal Purge Rate (gpm)/(mLpm) 0.25gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
15.36	1055	1.25	7.70	8.37	0.75	5.49	24.31	0.46	5.27	-86	
15.37	1100	2.50	7.69	8.39	0.35	3.57	24.27	0.46	5.28	-101	
15.37	1105	3.75	7.67	8.40	0.47	2.94	24.31	0.46	5.29	-108	
15.37	1110	5.00	7.66	8.40	0.25	2.72	24.34	0.46	5.29	-110	
									1128	close up well, transducers back	

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 sampling?						NA				
Previous Field measurement	(12/15/2005)	7.61	13700	1.24	2.8	24.7	0.79		-136	
Are measurements consistent with previous?						NA				

Sample Time 1115 Sample Location: pump tubing ____ well port X spigot ____ bailer ____ other ____
Comments: disturbed both transducers in MW 36-50 + 100 to get WL tape down
removed dedicated tubing + bagged

Initial Depth to Water (ft BTOC): 15.14
WD (Well Depth - from table) ft btc (53.3)
SWH (Standing Water Height) = WD-Initial Depth 38.16
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (1 in)
One Casing Volume = D*SWH 1.529
Three Casing Volumes = 4.58

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: 10013

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 Field Conditions sunny, warm

Sampling Event 2006-GMP-093-Q1
Date 3/7/06
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Well/Sample Number MW-36-070-093 **QC Sample ID** NA QC Sample Time NA
Purge Start Time 0954 Purge Method 3 WV Ded. Pump peristaltic
Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 3.35g Purge Rate (gpm)/(mLpm) 0.27

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
14.87	0959	1.35	7.64	9.47	0.99	3.41	24.05	0.53	5.98	-38	
14.88	1004	2.7	7.64	9.60	1.77	3.00	24.14	0.54	6.05	-43	
14.90	1009	4.05	7.65	9.63	0.65	2.70	24.12	0.54	6.10	-58	
14.915	1014	5.4	7.64	9.72	0.83	2.51	24.15	0.54	6.13	-67	

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 sampling?						NA				
Previous Field measurement	(12/15/2005)	7.87	15400	1.8	2.68	24.7	0.9		-190	
Are measurements consistent with previous?						NA				

Sample Time 1015 Sample Location: pump tubing X well port ___ spigot ___ bailer ___ other ___

Comments: disturbed transducers in wells MW-36-070 + MW-36-020 to get WL tape down
CH2M 101664 – WL tape (used for this + MW-36-020), removed tubing, stored in bag

Initial Depth to Water (ft BTOC): 14.755
WD (Well Depth - from table) ft btc ~~(42.75)~~ 72.48 (2.48)
SWH (Standing Water Height) = WD-Initial Depth 57.72
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (1 in)
One Casing Volume = D*SWH 2.288
Three Casing Volumes = 6.86

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 101664

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation

Comments:

Color: (clear), grey, yellow, brown, black, cloudy, green **Odor:** (none), sulphur, organic, other **Solids:** (Trace), Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 Field Conditions hot, sunny

Sampling Event 2006-GMP-093-Q1
Date 3/7/06
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Well/Sample Number MW-36-090-093 **QC Sample ID** NA QC Sample Time NA
Purge Start Time 1225 Purge Method 3 WV Ded. Pump peristaltic
Flow Cell: Y / (N) Min. Purge Volume (gal)/(L) 10 Purge Rate (gpm)/(mLpm) 0.2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
16.355	1235	2	7.54	13.6	~~4.16~~	6.71	24.84	0.79	8.4	-20	
16.34	1245	4	7.59	14.6	6.25	3.98	24.65	0.85	9.0	3	
16.37	1255	6	7.60	14.8	~~8.47~~	~~8.28~~ 4.82	24.51	0.86	9.1	27	
16.38	1305	8	7.60	14.7	~~1.47~~ 1.01	3.79	24.53	0.86	9.1	34	
16.36	1315	10	7.60	14.7	5.72	3.09	24.51	0.86	9.1	42	

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 sampling?						NA				
Previous Field measurement	(2/9/2006)	7.35	16100	7.96	3.43	25.15	0.9		37	
Are measurements consistent with previous?						NA				

Sample Time _____ Sample Location: pump tubing X well port _____ spigot _____ bailer _____ other _____

Comments: both transducers disturbed while sampling (040 & 090)
removed tubing (dual set) & bagged

Initial Depth to Water (ft BTOC): 16.22
WD (Well Depth - from table) ft btc (92.48)
SWH (Standing Water Height) = WD-Initial Depth 76.26
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (1 in)
One Casing Volume = D*SWH 3.05
Three Casing Volumes = 9.15

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: 161013

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions Sunny, Calm / 70's

Sampling Event 2006-GMP-093-Q1
Date 3/13/06
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Well/Sample Number MW-36-100-093 **QC Sample ID** NA QC Sample Time
Purge Start Time 1416 Purge Method 3wv Ded. Pump NO - two BLE Redi-Flo Decomm'd
Flow Cell Y / N Min. Purge Volume (gal)/(L) 48 Purge Rate (gpm)/(mLpm) 2 @ 1242

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
16.94	1416	0	7.49	54.0	210	4.55	25.02	2.36	18.5	-54	Orangish Brown
—	1421	10	7.91	15.1	18	0.86	26.03	0.90	9.9	-39	Clear
—	1426	20	7.83	17.2	9	0.42	26.02	1.02	10.7	-20	Clear
—	1431	30	7.81	17.4	6	0.30	25.94	1.03	10.6	-17	Clear
—	1436	40	7.80	17.4	4	0.23	26.03	1.03	10.8	-18	Clear
—	1440	48	7.79	17.4	3	0.16	25.95	1.03	10.8	-16	Clear

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 sampling?	✓	✓	✓	✓	NA	✓	✓	✓	
Previous Field measurement (2/8/2006)	7.25	19700	10.8	2.56	26.32	1.2		18	
Are measurements consistent with previous?	NO	NO	NO	NO	NA	Y		Y	

Sample Time 1445 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____
Comments: WLI Shooting Out - NO Use except Initial

Initial Depth to Water (ft BTOC): 16.94
WD (Well Depth - from table) ft btc (110.15)
SWH (Standing Water Height) = WD-Initial Depth 93.21
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)
One Casing Volume = D*SWH 16
Three Casing Volumes = 48

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal	1405
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	1450
1405	16.94	1455	17.20		

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green
Odor: none, sulphur, organic, other
Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions WARM & CLEAR

Sampling Event 2006-GMP-093-Q1
Date 3/13/06
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Well/Sample Number MW-37D-093 **QC Sample ID** NA QC Sample Time —
Purge Start Time 1050 Purge Method Redi-Flo 2 Ded. Pump No
Flow Cell: Y / N Min. Purge Volume (gal)/(L) 100 (x) Purge Rate (gpm)/(mLpm) 2 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
32.20	1105	30	6.83	17.3	.99	2.68	28.17	1.0	11	51	Slightly Green in
32.20	1120	60	7.61	18.2	.75	3.39	29.34	1.1	12	110	color w/a sulphur
32.21	1135	90	7.67	18.5	.61	3.34	29.56	1.1	12	118	odor.
32.21	1140	100	7.68	18.6	.56	3.37	29.56	1.1	12	118	

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 sampling?	Y	Y	Y	Y	NA	—	—	Y
Previous Field measurement (12/14/2005)	8.7	13100	0.07	4.03	28.94	0.76		71
Are measurements consistent with previous?	N	N	Y	N	NA	—	—	N

Sample Time 1142 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 31.70
WD (Well Depth - from table) ft btc (226.72)
SWH (Standing Water Height) = WD-Initial Depth 195.02
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)
One Casing Volume = D*SWH 33.15 X 3
Three Casing Volumes = 99.46

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE2005-02

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal —
Time	Initial DTW	Time	Final DTW	Time of Reinstallation —
1040	31.70	1148	32.36	

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions WARM/CLEAR

Sampling Event 2006-GMP-093-Q1
Date 8/13/06
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Well/Sample Number MW-37S-093 **QC Sample ID** NA QC Sample Time ____

Purge Start Time 1210 Purge Method ____ Ded. Pump ____

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 29 gal Purge Rate (gpm)/(mLpm) 1-1.3 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
31.0	1215	5	7.83	7.18	34.3	6.56	28.65	.4	4.4	151	WATER is GREEN
31.62	1220	10	7.77	6.28	22.8	3.77	28.56	.3	4.1	124	& CLEAR w/ SULPHUR
31.63	1225	15	7.74	6.15	4.97	3.72	28.58	.3	4.0	109	ODOR
31.63	1230	20	7.73	6.06	0.85	3.73	28.61	.3	3.9	108	
31.60	1235	25	7.73	6.04	0.82	3.71	28.47	.3	3.9	107	
31.60	1240	30	7.73	6.00	0.82	3.81	28.44	.3	3.9	106	

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 sampling?	Y	Y	Y	Y	NA	—	—	Y	
Previous Field measurement (12/14/2005)	8.78	3860	0.2	4.2	27.67	0.2		69	
Are measurements consistent with previous?	Y	Y	Y	Y	NA	—	—	Y	

Sample Time 1245 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 31.50

WD (Well Depth - from table) ft btc (87.03)

SWH (Standing Water Height) = WD-Initial Depth 56

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in) .17

One Casing Volume = D*SWH 9.52 X 3

Three Casing Volumes = 28.56

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: RE-2005-02

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal —
Time	Initial DTW	Time	Final DTW	Time of Reinstallation —
1039	31.50	1252	30.90	

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions Sunny, v. windy, 65°F

Sampling Event 2006-GMP-093-Q1
Date 3/10/06
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Well/Sample Number MW-38D-093 **QC Sample ID** NA QC Sample Time NA

Purge Start Time 0840 (71.96 ft BTOC at 0841) Purge Method pump (temp) Ded. Pump N, portable grundfos Redi flow2

Flow Cell: Y / (N) overflow cup Min. Purge Volume (gal)/(L) 6 l gal Purge Rate (gpm)/(mLpm) 3 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
~~71.96~~	0845	15	6.78	21.6	~~57.0~~ ~~27.2~~	2.07	27.88	~~X~~ 1.3	15	223	0.5 gal / 10 sec
72.00	0850	30	7.18	24.0	4.8	3.62	28.03	1.5	16	195	"EKE 2" Reading on EC meter
72.00	0855	45	7.38	23.9	3.1	2.08	28.28	1.5	16	149	"EKE 2" readings gone
72.01	0900	60	7.45	23.8	2.5	2.09	28.42	1.5	15	122	
72.03	0903	69	7.48	23.8	2.3	2.09	28.47	1.5	15	112	
											finished 0908

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 sampling?	Y	Y	~~Y~~	Y	NA	Y	Y	decreasing	
Previous Field measurement (10/7/2005)	7.82	25700	0.63	1.07	30.47	1.6		-2	— due to use of overflow cup?
Are measurements consistent with previous?	~	~	~	~	NA	Y		N	

Sample Time 0905 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 70.95

WD (Well Depth - from table) ft btc (190.85)

SWH (Standing Water Height) = WD-Initial Depth 119.9

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)

One Casing Volume = D*SWH 20.38

Three Casing Volumes = 61 gal

Measure Point: Well TOC / Steel Casing WATER LEVEL METER SERIAL NUMBER: C-101231

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer NA
Time	Initial DTW	Time	Final DTW	Time of Removal
				Time of Reinstallation

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions sunny, windy, 65°F

Sampling Event 2006-GMP-093-Q1
Date 3/10/06
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Well/Sample Number MW-38S-093 **QC Sample ID** NA QC Sample Time

Purge Start Time 0918 Purge Method temp pump Ded. Pump N - used portable groundfos needle flow 2

Flow Cell: Y / (N) overflow cup Min. Purge Volume (gal)/(L) 14 gal Purge Rate (gpm)/(mLpm) 2.3 gpm

Water Level	Time	Vol. Purged (gallons) / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
72.50	0921	7	7.56	6.98	~~4~~ 5.3	3.73	27.48	0.4	4.3	170	0.5gpm / 13sec
72.54	0924	14	7.30	4.86	2.7	3.73	28.60	0.3	3.1	166	
72.54	0927	21	7.22	4.74	2.2	3.31	28.74	0.2	3.1	162	
72.56	0930	28	7.19	4.75	2.2	3.44	28.69	0.2	3.1	158	
											finished 0937
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 sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Previous Field measurement (10/7/2005)			7.45	4290	0.55	2.17	29.5	0.2		47	
Are measurements consistent with previous?			Y	Y	~	~	NA	Y		~	

Sample Time 0931 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ~~ERH 2 reading on Horiba U22~~
pump ~ 5' below water level

Initial Depth to Water (ft BTOC): 70.70
WD (Well Depth - from table) ft btc (98.06)
SWH (Standing Water Height) = WD-Initial Depth 27.36
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)
One Casing Volume = D*SWH 4.65
Three Casing Volumes = 13.95

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: C-101231

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		**If Transducer** NA
Time	Initial DTW	Time	Final DTW	Time of Removal
				Time of Reinstallation
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green slightly **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 Field Conditions warm, sunny

Sampling Event 2006-GMP-093-Q1
Date 3/7/06
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Well/Sample Number MW-39-040-093 **QC Sample ID** NA QC Sample Time NA
Purge Start Time 1428 Purge Method 3WV Ded. Pump peristaltic
Flow Cell: Y / (N) Min. Purge Volume (gal)/(L) 4gal Purge Rate (gpm)/(mLpm) .25

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
14.29	1433	1.25	7.78	10.4	2.21	4.15	25.55	0.58	6.4	-156	used overflow cup
14.29	1438	2.5	7.76	8.62	1.27	3.59	25.58	0.48	5.42	-156	
14.30	1443	3.75	7.76	8.52	0.68	3.17	25.62	6.47	5.37	-165	
14.30	1448	5.0	7.76	8.45	0.70	3.03	25.57	0.47	5.32	-162	

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 sampling?						NA				
Previous Field measurement	(12/16/2005)	7.34	5680	0.46	2.07	25.94	0.3		-177	
Are measurements consistent with previous?						NA				

Sample Time 1450 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: removed tubing, placed in bag
disturbed transducer in MW-39-040 slightly

(42.1 - 14 = 28)
Initial Depth to Water (ft BTOC): 13.94
WD (Well Depth - from table) ft btc (42.1)
SWH (Standing Water Height) = WD-Initial Depth 28
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (1 in)
One Casing Volume = D*SWH 1.22
Three Casing Volumes = 3.66 gal (4 × 28 × .04 = 1.22)

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: 101013

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal ____
Time	Initial DTW	Time	Final DTW	Time of Reinstallation ____

Comments:

Color: (clear), grey, yellow, brown, black, cloudy, green **Odor:** none, (sulphur), organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 Field Conditions sunny, windy ~75°F

Sampling Event 2006-GMP-093-Q1
Date 3/8/06
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Well/Sample Number MW-39-050-093 **QC Sample ID** NA QC Sample Time NA

Purge Start Time 0950 Purge Method peristaltic w/ dedicated tubing Ded. Pump

Flow Cell: Y / (N) overflow cup Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 0.83 gpm 1.25 gal/10 min

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
14.01	1000	1.25	7.72	15.5	4.07	6.10	25.20	0.91	9.7	131	(1.93 min) 1 min 56 sec / 1L flow rate =
14.01	1010	2.5	7.75	16.5	0.87	3.03	25.26	0.97	10.2	114	
14.02	1020	3.75	7.76	16.1	0.35	2.54	25.22	0.95	10.0	79	
NM	1025 ~~1030~~	~~5~~ 4.4	7.76	16.1	NM	2.39	25.21	0.94	10.0	76	intermediate check
14.04	1030	5	7.76	16.0	0.51	2.31	25.31	0.94	9.9	71	

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 sampling?	Y	Y		dropping	NA	Y	Y	dropping	
Previous Field measurement (1/12/2006)	7.54	18300	2.32	2.84	25.53	1.08		-9	
Are measurements consistent with previous?	Y	~less	less	~	NA	~		N	probably b/c overflow cup + not flow cell

Sample Time 1030 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: transducers for 050 + 080 disturbed to get WL tape down

Initial Depth to Water (ft BTOC): 13.74
WD (Well Depth - from table) ft btc (54.6)
SWH (Standing Water Height) = WD-Initial Depth 40.86
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, (1"=0.04) (1 in) 0.04
One Casing Volume = D*SWH 1.6 gal
Three Casing Volumes = 4.9 gal

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: 10103

Initial DTW / Before Removal		If Transducer not removed, disturbed through		
Time	Initial DTW	Approx. 5 min After Reinstallation Time	Final DTW	Time of Removal / Time of Reinstallation

Comments:

Color: (clear), grey, yellow, brown, black, cloudy, green **Odor:** (none), sulphur, organic, other **Solids:** (Trace), Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 Field Conditions sunny, windy 75°F

Sampling Event 2006-GMP-093-Q1
Date 3/8/06
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Well/Sample Number MW-39-060-093 60
QC Sample ID ~~NA~~ MW-97-093 **QC Sample Time** 1315
Purge Start Time 1312 **Purge Method** peristaltic pump **Ded. Pump** N
Flow Cell: Y / (N) overflow cup **Min. Purge Volume (gal)/(L)** 6.2 gal **Purge Rate (gpm)/(mLpm)** 0.24 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
16.55	1317	1.22	7.59	18.5	1.37	3.77	25.34	1.12	11.6	-23	1 min 3 sec / 1 L
16.55	1322	2.44	7.69	20.7	3.54	4.78	25.43	1.24	12.8	69	
16.60	1327	3.66									
16.62	1332	4.88	7.50	20.8	2.51	2.38	25.53	1.25	12.9	40	
16.64	1337	6	7.50	20.7	1.19	2.18	25.56	1.25	12.8	16	
16.69	1342	7.22	7.50	20.6		2.10	2550	1.24	12.8	12	
											finished @ 1400
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 sampling?			6.83				NA				
Previous Field measurement (2/10/2006)			~~7.46~~	~~18900~~ 41200	~~2.45~~ 0.77	~~2.6~~ 2.34	~~33.15~~ 26.04	~~1.15~~ 1.24		~~66~~ 40	
Are measurements consistent with previous?							NA				

Sample Time 1345 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____
Comments: disturbed transducer for MW-39-060 + 100 getting WL tape down

Initial Depth to Water (ft BTOC): 14.31
WD (Well Depth - from table) ft btc (~~82.55~~) 66.3
SWH (Standing Water Height) = WD-Initial Depth 51.99
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (1 in) 0.04
One Casing Volume = D*SWH 2.08 gal
Three Casing Volumes = 6.2 gal

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 101013

Initial DTW / Before Removal		If Transducer: transducer disturbed, not removed		
		Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 Field Conditions sunny. windy ~75°C

Sampling Event 2006-GMP-093-Q1
Date 3/8/06
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Well/Sample Number MW-39-070-093 **QC Sample ID** NA QC Sample Time NA
Purge Start Time 1225 Purge Method peristaltic pump w/ dedicated tubing Ded. Pump N
Flow Cell: Y / (N) overflow cup Min. Purge Volume (gal)/(L) 6.9 gal Purge Rate (gpm)/(mLpm) 0.31 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
14.69	1230	1.55	7.72	15.1	4.87	~~4.87~~	25.37	6.89	9.5	235	1L/50sec = 0.31 gpm
14.71	1235	3.1	7.66	16.2	0.64	4.46	25.39	0.96	10.1	226	
14.73	1240	4.65	7.56	16.2	1.15	4.20	25.38	0.95	10.0	215	
14.71	1245	6.2	7.56	16.2	0.22	4.31	25.43	0.95	10.0	207	
14.73	1250	7.75	7.56	16.3	0.92	~~4.00~~ 2.79	25.40	0.96	10.1	201	

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 sampling?					NA				
Previous Field measurement (2/10/2006)	7.2	15500	21.61	2.81	25.88	0.9		48	
Are measurements consistent with previous?					NA				

Sample Time 1250 Sample Location: pump tubing ✓ well port _____ spigot _____ bailer _____ other _____
Comments: disturbed transducer in MW39-040 + 070 to get WL tape down
removed tubing + bagged

Initial Depth to Water (ft BTOC): 14.59
WD (Well Depth - from table) ft btc (71.69)
SWH (Standing Water Height) = WD-Initial Depth 57.1
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (1 in) 0.04
One Casing Volume = D*SWH 2.28 gal
Three Casing Volumes = 6.85 gal

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: 10103

Initial DTW / Before Removal		If Transducer not removed, was disturbed		
		Approx. 5 min After Reinstallation		Time of Removal _____
Time	Initial DTW	Time	Final DTW	Time of Reinstallation _____

Comments:

Color: (clear), grey, yellow, brown, black, cloudy, green **Odor:** (none), sulphur, organic, other **Solids:** (Trace), Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 Field Conditions sunny, windy

Sampling Event 2006-GMP-093-Q1
Date 3/8/06
Page 1 of 1

Well/Sample Number MW-39-060-093 8
QC Sample ID ~~MW-97-093~~ NA
QC Sample Time ~~1100~~ KLB
Purge Start Time 1053
Purge Method persistaltic pump w/ dedicated tubing Ded. Pump N
Flow Cell: Y / (N) overflow cup
Min. Purge Volume (gal)/(L) ~~1 L~~ 4 gal Purge Rate (gpm)/(mLpm) 0.15 gal per min

Water Level	Time ~~(min)~~	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
14.58	1108	~~1.5~~ 2.25	7.49	18.1	1.92	3.80	25.24	1.08	11.3	191	1 min 41 sec / 1 L
14.60	1123	~~3~~ 4.5	7.50	20.3	~~3.33~~ ~~2.42~~	2.42	25.41	1.22	12.6	171	
14.65	1138	~~4.5~~ 6.75	7.50	20.9	0.82	2.18	25.40	1.26	12.9	165	
14.65	1153	~~9~~ 11.25	7.57	21.0	1.59	2.05	25.56	1.26	13.0	156	
NM	1156	~~6~~ 11.7	7.51	21.0		2.05	25.46	1.27	13.0	155	
14.65	1159	12.15	7.51	20.9	0.91	2.23	25.40	1.26	13.0	154	
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 sampling?			~~7.16~~	19900	~~2.45~~		NA				
Previous Field measurement (12/16/2005)			~~6.83~~	~~11200~~	~~0.77~~	~~2.34~~ 2.6	~~25.05~~	~~0.64~~ 1.1		~~40~~ 60	
Are measurements consistent with previous?							NA				

Sample Time ~~1135~~ 1200 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____
Comments: disturbed transducer when lowering WL tape removed tubing & bagged

Initial Depth to Water (ft BTOC): 14.48
WD (Well Depth - from table) ft btc (~~66.3~~) ~~82.55~~ ~~51.0~~ KLB
SWH (Standing Water Height) = WD-Initial Depth ~~51.02~~ 97.03
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (1 in) 0.04
One Casing Volume = D*SWH ~~2.07~~ gal 3.98 gal
Three Casing Volumes = ~~6.2~~ gal 11.64 gal

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 101013

Initial DTW / Before Removal		If Transducer not removed was disturbed	
Time	Initial DTW	Approx. 5 min After Reinstallation Time	Final DTW
		Time of Removal	
		Time of Reinstallation	
Comments:			

Color: clear, grey, yellow, brown, black, cloudy, green → to slightly
Odor: none, sulphur, organic, other
Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions Sunny, Calm, 70's

Sampling Event 2006-GMP-093-Q1
Date 3/13/06
Page 1 of

Well/Sample Number MW-39-100-093 **QC Sample ID** NA QC Sample Time
Purge Start Time 1318 Purge Method 3WV Ded. Pump Yes Redi Flo
Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 52 gals Purge Rate (gpm)/(mLpm) 2 @ 148 Hz

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
15.70	1318	0	7.89	19.0	40	4.78	25.65	1.12	11.6	28	Greenish
—	1323	10	7.68	19.8	6	0.85	26.63	1.19	12.3	39	
—	1328	20	7.65	20.1	3	0.89	26.81	1.21	12.4	46	
—	1333	30	7.62	20.2	3	0.79	26.91	1.21	12.5	49	
—	1338	40	7.61	20.6	3	0.77	26.87	1.24	12.8	50	
—	1344	52	7.59	20.4	3	0.70	26.93	1.23	12.6	51	

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 sampling?	✓	✓	✓	✓	NA	✓	✓	✓	
Previous Field measurement (2/8/2006)	7.18	21700	1.18	2.88	27.38	1.3		120	
Are measurements consistent with previous?	NO	✓	✓	NO	NA	✓		NO	

Sample Time 1345 Sample Location: pump tubing X well port _____ spigot _____ bailer _____ other _____
Comments: WLT Shorting out - No use

PGE2005.01B

Initial Depth to Water (ft BTOC): 15.70
WD (Well Depth - from table) ft btc (117.71)
SWH (Standing Water Height) = WD-Initial Depth 102.01
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)
One Casing Volume = D*SWH 17.4 gal
Three Casing Volumes = 52 gal

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation

Comments:

Color: clear, grey, yellow, brown, black, cloudy (green)
Odor: none, sulphur, organic, other
Solids: (Trace), Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions

Sampling Event 2006-GMP-093-Q1
Date 8 March 06
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Well/Sample Number MW-40D-093 **QC Sample ID** NA QC Sample Time

Purge Start Time 1131 Purge Method 2 in Grund Ded. Pump NO

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 80.71 Purge Rate (gpm)/(mLpm) 3GPM

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
107.73	1136	15	7.29	18.3	2.10	2.08	30.99	1.1	12	-6	
	1141	30	7.38	19.0	1.96	2.17	31.45	1.1	12	12	
	1146	45	7.41	18.9	1.28	2.14	31.57	1.1	12	24	
	1151	60	7.42	18.9	1.47	2.17	31.47	1.1	12	33	
	1156	75	7.42	19.0	2.80	2.15	31.59	1.1	12	38	
	1201	90	7.43	18.9	2.38	2.13	31.55	1.1	12	41	
	1206	105	7.42	18.9	2.19	2.13	31.56	1.1	12	45	Sample Time 1207
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 sampling?							NA				
Previous Field measurement (12/13/2005)			8.39	18300	0.16	2.8	30.39	1.09		-6	
Are measurements consistent with previous?							NA				

Sample Time 1207 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): 107.73

WD (Well Depth - from table) ft btc (266)

SWH (Standing Water Height) = WD-Initial Depth 158.27

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)

One Casing Volume = D*SWH 26.90

Three Casing Volumes = 80.71

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

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions

Sampling Event 2006-GMP-093-Q1
Date 8 March 06
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Well/Sample Number MW-40S-093 **QC Sample ID** NA QC Sample Time

Purge Start Time 0954 Purge Method 2 in Grund Ded. Pump No

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 13 Gal Purge Rate (gpm)/(mLpm) 2 GPM

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
	0958	8	7.01	2.44	4.52	7.46	30.21	0.1	1.6	232	
	[illegible]1000	10	7.06	2.46	4.32	7.46	30.20	0.1	1.6	230	
	1002	14	7.18	2.50	3.54	7.24	30.28	0.1	1.6	223	
	1004	[illegible]18	7.20	2.52	2.22	7.60	30.25	0.1	1.6	220	
	1006	[illegible]22	7.22	2.56	4.30	7.62	30.23	0.1	1.7	218	
	1057	32	7.50	2.67	6.84	7.85	30.87	0.1	1.7	233	1058 Sample Time

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 sampling?					NA				
Previous Field measurement (12/13/2005)	8.34	2130	1.37	8.02	28.79	0.11		157	
Are measurements consistent with previous?					NA				

Sample Time [illegible]1058 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: Tubing problem prevented sampling. We fixed the tubing purged another additional 2 volumes took 1 reading and sampled

Initial Depth to Water (ft BTOC): 108.36

WD (Well Depth - from table) ft btc (134)

SWH (Standing Water Height) = WD-Initial Depth 25.64

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)

One Casing Volume = D*SWH 4.36

Three Casing Volumes = 13 Gal

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions

Sampling Event 2006-GMP-093-Q1
Date 15 March 06
Page 1 of 1

Well/Sample Number MW-41D-093 **QC Sample ID** NA QC Sample Time

Purge Start Time 1115 Purge Method Ded. Pump NO

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 147 Purge Rate (gpm)/(mLpm) 3GPM

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
25.70	1125	30	7.78	23.9	3.16	2.09	29.80	1.5	16	-201	
25.70	1135	60	7.78	24.0	1.33	2.13	30.21	1.5	16	-163	
25.70	1145	90	7.74	24.3	0.90	2.14	30.31	1.5	16	-134	
25.70	1155	120	7.73	24.2	0.84	2.18	30.25	1.5	16	-116	
25.70	1205	150	7.71	24.6	0.75	2.10	30.85	1.5	16	-115	
25.70	1208	159	7.71	24.7	0.95	2.10	30.92	1.5	16	-115	
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 sampling?							NA				
Previous Field measurement (12/16/2005)			8.31	20200	0.36	2.15	29.05	1.21		-163	
Are measurements consistent with previous?							NA				

Sample Time 1210 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 241.70

WD (Well Depth - from table) ft btc (313)

SWH (Standing Water Height) = WD-Initial Depth 288.30

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)

One Casing Volume = D*SWH 49.01

Three Casing Volumes = 147

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

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation

Comments:

Color: (clear) grey, yellow, brown, black, cloudy, green **Odor:** none (sulphur) organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions

Sampling Event 2006-GMP-093-Q1
Date 13 March 06
Page 1 of 1

Well/Sample Number MW-41M-093 **QC Sample ID** NA QC Sample Time

Purge Start Time 1335 Purge Method Grund Ded. Pump NO

Flow Cell: (Y) N Min. Purge Volume (gal)/(L) 86.00 Purge Rate (gpm)/(mLpm) 2 GPM

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
24.80	1345	20	7.56	18.2	0.69	3.37	28.98	1.1	12	151	
24.80	1355	40	7.58	18.1	1.19	2.78	29.57	1.1	12	113	
24.85	1405	60	7.62	18.0	0.54	2.46	29.62	1.1	12	70	
24.79	1415	80	7.65	17.9	0.50	2.26	29.74	1.1	12	38	
24.78	1420	85	7.65	17.9	0.59	2.18	30.02	1.1	12	25	
24.76	1423	91	7.66	17.9	0.43	2.23	29.80	1.1	12	20	
24.75	1426	97	7.66	17.9	0.21	2.22	29.77	1.1	12	18	
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 sampling?							NA				
Previous Field measurement (12/16/2005)			8.14	14400	0.44	2.08	28.5	0.84		-38	
Are measurements consistent with previous?							NA				

Sample Time 1428 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): 24.66

WD (Well Depth - from table) ft btc (192.4)

SWH (Standing Water Height) = WD-Initial Depth 167.74

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)

One Casing Volume = D*SWH 28.52

Three Casing Volumes = 86.00

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

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation
			24.78	
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions Warm & Clear

Sampling Event 2006-GMP-093-Q1
Date 3/13/06
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Well/Sample Number MW-41S-093 **QC Sample ID** NA QC Sample Time —
Purge Start Time 1442 Purge Method Redi-flo 2 Ded. Pump No
Flow Cell: Y N Min. Purge Volume (gal)/(L) 14 gal Purge Rate (gpm)/(mLpm) 2 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
24.99	1445	6	7.67	15.2	8.83	7.22	25.41	.8	9	77	Clear/No odor
24.97	1448	12	7.83	11.0	.86	4.24	26.47	.6	7	68	
24.98	1451	18	7.85	9.9	.77	3.65	26.98	.5	6	60	
24.98	1454	24	7.85	9.3	1.17	3.42	27.19	.5	6	56	
24.80	1457	28	7.85	9.6	.80	3.36	27.22	.5	6	48	

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 sampling?						NA				
Previous Field measurement	(12/16/2005)	8.37	4420	1.85	2.86	27.86	0.23		-3	
Are measurements consistent with previous?						NA				

Sample Time 1500 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 24.72
WD (Well Depth - from table) ft btc (61.58)
SWH (Standing Water Height) = WD-Initial Depth 36.86
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in) .17
One Casing Volume = D*SWH 6.26 x 3
Three Casing Volumes = 18.79

Measure Point: Well TOC / Steel Casing WATER LEVEL METER SERIAL NUMBER: TGK 2005-02

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal ____
Time	Initial DTW	Time	Final DTW	Time of Reinstallation ____
1430	24.72			
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions

Sampling Event 2006-GMP-093-Q1
Date 3/2/06
Page ____ of ____

Well/Sample Number MW-42-030-093 **QC Sample ID** NA QC Sample Time ____

Purge Start Time 1220 Purge Method 3CV Ded. Pump NA

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 12 Purge Rate (gpm)/(mLpm) 1

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
10.07	1224	4	7.87	11.9	—	1.75	25.40	0.68	7.3	-141	
10.11	1226	6	7.90	11.6	27.1	0.74	25.29	0.66	7.2	-147	
10.12	1228	8	7.91	11.5	87.1	0.59	25.35	0.65	7.1	-150	
10.14	1230	10	7.92	11.5	50.2	0.49	25.40	0.65	7.1	-152	
10.14	1232	12	7.92	11.3	38.5	0.43	25.32	0.64	7.0	-153	
10.13	1234	14	7.93	11.4	32.3	0.40	25.22	0.65	7.1	-154	
10.15	1236	16	7.93	11.4	29.5	0.36	25.22	0.65	7.0	-154	
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 sampling?							NA				
Previous Field measurement (12/15/2005)			6.43	14500	9.6	2.39	25.01	0.85		-129	
Are measurements consistent with previous?							NA				

Sample Time 1240 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 9.63

WD (Well Depth - from table) ft btc (32)

SWH (Standing Water Height) = WD-Initial Depth 22.37

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)

One Casing Volume = D*SWH 3.80

Three Casing Volumes = 11.4

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

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal 1214
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1300
1214	9.63	1305	9.67	
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions

Sampling Event 2006-GMP-093-Q1
Date 3/7/06
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Well/Sample Number MW-42-055-093 **QC Sample ID** NA QC Sample Time ____

Purge Start Time 1314 Purge Method ____ Ded. Pump ____

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 24 Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
~~9.79~~ 10.32	1316	4	7.80	9.99	11.0	4.12	25.2	0.91	9.6	-139	
10.31	1318	8	7.77	16.5	7.75	1.17	25.02	0.98	10.3	-121	
10.33	1320	10	7.74	16.6	6.29	0.69	25.08	0.98	10.3	-116	
10.37	1322	~~12~~ 14	7.74	16.5	4.51	0.45	25.13	0.98	10.3	-118	
10.35	1324	~~18~~ 18	7.75	16.6	4.28	0.36	25.12	0.98	10.3	-120	
10.35	1326	~~16~~ 22	7.76	16.5	3.53	0.32	25.01	0.98	10.3	-121	
10.36	1328	26	7.76	16.5		0.27	25.12	0.96	10.2	-122	
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 sampling?							NA				
Previous Field measurement (12/15/2005)			6.5	11100	0.4	2.38	24.44	0.63		-143	
Are measurements consistent with previous?							NA				

Sample Time 1330 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 9.78

WD (Well Depth - from table) ft btc (56)

SWH (Standing Water Height) = WD-Initial Depth 46.22

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)

One Casing Volume = D*SWH 7.86

Three Casing Volumes = 23.57

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal 1308 / Time of Reinstallation 1343
1307	9.78	1451	9.81	

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions

Sampling Event 2006-GMP-093-Q1
Date 3/7/06
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Well/Sample Number MW-42-065-093 **QC Sample ID** NA QC Sample Time

Purge Start Time 1440 Purge Method Ded. Pump

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 36 Purge Rate (gpm)/(mLpm) 3

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
~~10.08~~ ~~1442~~ m	~~1442~~ m	6	7.64	18.6	10.1	2.90	24.35	1.16	11.5	-106	
10.09	1444	12	7.43	19.7	5.23	1.05	24.61	1.18	12.2	-78	
10.10	1446	18	7.39	20.0	4.29	0.67	24.63	1.20	12.4	-66	
10.10	1448	24	7.37	20.0	3.71	0.52	24.68	1.20	12.4	-61	
10.10	1450	30	7.37	20.1	3.46	0.42	24.69	1.20	12.4	-59	
10.09	1452	36	7.37	20.1	3.88	0.39	24.66	1.20	12.4	-58	
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 sampling?							NA				
Previous Field measurement (12/15/2005)			6.29	13200	0.84	2.49	23.43	0.76		-78	
Are measurements consistent with previous?							NA				

Sample Time 1454 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 9.38

WD (Well Depth - from table) ft btc (80)

SWH (Standing Water Height) = WD-Initial Depth 70.62

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)

One Casing Volume = D*SWH 12

Three Casing Volumes = 36

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal 1436
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1509
~~9.3~~ 1435	9.38	15:14	9.39	
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions cool, sunny

Sampling Event 2006-GMP-093-Q1
Date 3/10/06
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Well/Sample Number MW-43-025-093 **QC Sample ID** NA QC Sample Time NA
Purge Start Time 0837 Purge Method 3WV Ded. Pump NO
Flow Cell (Y) N Min. Purge Volume (gal)/(L) 11gal Purge Rate (gpm)/(mLpm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
7.56	0840	3	7.45	1.57	156	8.87	18.53	0.07	0.99	-98	pump off/on @ 842
7.57	0843	5	7.44	1.44	106	1.63	19.96	0.07	0.91	-114	
7.59	0846	8	7.60	1.40	39.9	0.91	20.38	0.06	0.90	-129	
7.60	0848	10	7.75	1.37	10.1	0.55	20.48	0.06	0.88	-141	
7.60	0851	13	7.83	1.36	6.32	0.38	20.50	0.06	0.87	-148	
7.61	0853	15	7.88	1.35	5.14	0.29	20.50	0.06	0.87	-153	
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 sampling?							NA				
Previous Field measurement (12/16/2005)			7.25	1420	2.56	2.53	20	0.1		-184	
Are measurements consistent with previous?							NA				

Sample Time ~~0855~~ 0900 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 7.26
WD (Well Depth - from table) ft btc (27)
SWH (Standing Water Height) = WD-Initial Depth 20
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)
One Casing Volume = D*SWH 3.40
Three Casing Volumes = 10.2

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE2005 01B

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal 0835
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 0905
0834	7.26	0913	7.34	
Comments:				

Color: (clear) grey, yellow, brown, black, cloudy, green **Odor:** (none), sulphur, organic, other **Solids:** (Trace), Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

20 × .17 = 3.40 → 14.00

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions cool, sunny

Sampling Event 2006-GMP-093-Q1
Date 3/10/06
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Well/Sample Number MW-43-075-093 **QC Sample ID** NA QC Sample Time NA
Purge Start Time 0916 Purge Method 3WV Ded. Pump yes
Flow Cell Y / N Min. Purge Volume (gal)/(L) 36gal Purge Rate (gpm)/(mLpm) 2gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
8.12	0920	8	7.80	14.4	6.56	8.50	20.64	0.83	8.9	-110	
8.12	0923	14	8.01	14.6	1.50	0.87	20.99	0.85	9.0	-136	
8.12	0926	20	8.03	14.6	~~0.52~~ 1.42	~~21~~ 0.27	21.04	0.85	9.0	-142	
8.13	0929	26	8.04	14.5	0.61 1.38	0.18	21.06	0.84	9.0	-146	
8.12	0932	32	8.05	14.4	0.60	0.11	21.08	0.84	8.9	-147	
8.13	0935	38	8.05	14.4	0.72	0.11	21.03	0.83	8.9	-149	
7.75	0946										

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 sampling?						NA				
Previous Field measurement	(2/10/2006)	7.29	18500	2.18	3	21.3	1.1		-154	
Are measurements consistent with previous?						NA				

Sample Time 0935 Sample Location: pump tubing X well port _____ spigot _____ bailer _____ other _____
Comments: _____

Initial Depth to Water (ft BTOC): 7.69
WD (Well Depth - from table) ft btc (77)
SWH (Standing Water Height) = WD-Initial Depth 70
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)
One Casing Volume = D*SWH 11.90
Three Casing Volumes = 36

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE2005 01B

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

70
.17
490
700

11.90

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions cool, sunny

Sampling Event 2006-GMP-093-Q1
Date 3/10/06
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Well/Sample Number MW-43-090-093 **QC Sample ID** NA QC Sample Time NA
Purge Start Time 0948 Purge Method 3WV Ded. Pump yes
Flow Cell: Y / N Min. Purge Volume (gal)/(L) 48g Purge Rate (gpm)/(mLpm) 2gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
9.40	0952	8	7.57	19.7	2.57	0.91	19.76	1.18	12.2	-119	
9.11	0956	18	7.53	20.8	0.91	0.34	21.13	1.26	13.0	-120	
9.12	1000	24	7.57	20.6	0.98	0.12	21.38	1.27	13.3	-118	
9.15	1004	32	7.50	21.6	0.40	0.06	21.39	1.27	13.2	-118	
9.12	1008	40	7.49	20.4	0.20	0.02	21.39	1.22	12.6	-117	
9.13	1012	48	7.48	21.1	0.58	0.01	21.41	1.23	13.3	-116	
8.16	1025										

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 sampling?						NA				
Previous Field measurement	(2/10/2006)	6.89	25900	2.38	2.81	21.7	1.6		-112	
Are measurements consistent with previous?						NA				

Sample Time 1015 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 8.05
WD (Well Depth - from table) ft btc (102)
SWH (Standing Water Height) = WD-Initial Depth 93.95
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)
One Casing Volume = D*SWH 15.97
Three Casing Volumes = 48

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE 2005 01B

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation
	NA			
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions sunny, windy 60's

Sampling Event 2006-GMP-093-Q1
Date 3/9/06
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Well/Sample Number OW-03D-093 **QC Sample ID** NA QC Sample Time NA

Purge Start Time 0830 Purge Method temp. pump Ded. Pump N

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 88 gal Purge Rate (gpm)/(mLpm) ~~1.2gpm~~ 3gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
103.7	0835	15	~~7.33~~ 6.61	~~8.004~~ 7.80	5.0	~~4.44~~ 2.29	28.84	0.4	5.1	23	0.5gal/25sec first increment b
WL tape not working	0840	30	6.87	7.66	2.3	1.84	29.39	0.4	5.0	-30	using P&E Horiba U-22 ~~3gpm~~
	0845	45	7.29	7.92	~~5.8~~ 1.7	1.95	29.24	0.4	5.2	-20	
	0850	60	7.43	7.90	~~1.8~~ 2.3	2.00	29.47	0.4	5.1	-8	
	0855	75	7.53	7.86	2.2	2.08	29.62	0.4	5.1	-1	
	0858		7.61	7.60	2.1	2.01	29.71	0.4	5.1	-1	
	0900	90	7.66	7.84	2.2	2.00	29.71	0.4	5.1	-1	
											finished 0910

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 sampling?		Y	Y		Y	NA	Y	Y	Y	
Previous Field measurement	(10/6/2005)	8.23	7890	0.39	1.29	31.1	0.4		-178	
Are measurements consistent with previous?		~	Y	~	~	NA	Y		N	

Sample Time 0905 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: Ready flow 2 pump (Grundfos) 2" pump
WL tape not working properly - can't get WL tape down hole now

Initial Depth to Water (ft BTOC): 102.41'

WD (Well Depth - from table) ft btc (274)

SWH (Standing Water Height) = WD-Initial Depth 171.59

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)

One Casing Volume = D*SWH 29.17 gal

Three Casing Volumes = 87.5 gal

Measure Point: Well TOC Steel Casing

WATER LEVEL METER SERIAL NUMBER: CH2M HILL C-10123'

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		NA
Time	Initial DTW	Time	Final DTW	Time of Removal ____
				Time of Reinstallation ____

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Sampling Event 2006-GMP-093-Q1
Date 3/9/06

Well/Sample Number	OW-03D-093
QC Sample ID	NA

Samples Samples are to be collected in the order listed

Lab	Turnaround Time	Analyte	Field Filtered (Y/N)	Share Group	Bottle			Preservative	pH check	Notes
					Material	Size	Number			
TLI	10 days	CR6 (7199) Lab Filtered	N	Hex Cr	Poly	250 mls	1	4'C	NA	
TLI	10 days	Diss Metals (6010B) Chromium	Y	Metals-DissolvedField	Poly	500 mls	1	HNO3, 4'C	NA	
TLI	10 days	Specific Conductance (120.1)	N	GENCHEM	Poly	1000 mls	1	4'C	NA	1 bottle
TLI	10 days	pH (150.1)	N	GENCHEM	Poly	1000 mls	1	4'C	NA	
TLI	10 days	TDS (160.1)	N	GENCHEM	Poly	1000 mls	1	4'C	NA	
EMAX	12 days	Diss Metals (6010B) Dissolved Ca,Mg,K,Na,Boron,Fe,Mn	Y	Metals-DissolvedField	Poly	500 mls	1	HNO3, 4'C	NA	
EMAX	12 days	Alkalinity (310.1)	N	GENCHEM	Poly	1000 mls	1	4'C	NA	
EMAX	12 days	Anions (300) Chloride,Sulfate, Nitrate-N	N	GENCHEM	Poly	1000 mls	1	4'C	NA	
EMAX	12 days	Ammonia (350.2)	N	GENCHEM-H2SO4	Poly	1000 mls	1	H2SO4, pH<2, 4'C	pH<2	
EMAX	12 days	Total Organic Carbon (415.2)	N	GENCHEM-H2SO4	Poly	1000 mls	1	H2SO4, pH<2, 4'C	pH<2	
EMAX	12 days	Silica (370.1)	N/Y	General	Poly	500 mls 2 250ml	1	4'C	NA	2 bottles 250
ZYM	10 days	Oxygen 18 & Deuterium (CF-IRMS)	N	Oxy_Deut	Poly	250 mls	1	4'C	NA	

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions sunny, breezy, 65°F

Sampling Event 2006-GMP-093-Q1
Date 3/9/06
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Well/Sample Number OW-03M-093 **QC Sample ID** NA QC Sample Time NA

Purge Start Time 0917 Purge Method temp. pump Ded. Pump N grundfos Reads - flow 2

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 51 gal Purge Rate (gpm)/(mLpm) 2.5 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
103.02	0922	12.5	7.66	5.69	4.6	2.79	28.16	0.3	3.7	78	0.5 gal / 12sec
102.99	0927	25	7.68	5.59	3.3	2.42	29.00	0.3	3.6	23	
102.99	0932	37.5	7.69	5.57	2.5	2.35	29.82	0.3	3.6	-33	
102.99	0937	50	7.70	5.56	2.1	2.38	29.76	0.3	3.6	-46	
102.99	0940	57.5	7.70	5.55	2.0	2.38	29.72	0.3	3.6	-41	
											finished 0946

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 sampling?	Y	Y	Y	Y	NA	Y	Y	Y	
Previous Field measurement (10/6/2005)	8.16	5440	0.22	1.82	30.66	0.3		-90	
Are measurements consistent with previous?	~	Y	~	~	NA	Y		~	

Sample Time 0945 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: pump 15-20' below water surface

Initial Depth to Water (ft BTOC): 102.61
WD (Well Depth - from table) ft btc (202)
SWH (Standing Water Height) = WD-Initial Depth 99.39
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in) 0.17
One Casing Volume = D*SWH 16.9
Three Casing Volumes = 50.7 gal.

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: C-101231

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer NA
Time	Initial DTW	Time	Final DTW	Time of Removal
				Time of Reinstallation

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Sampling Event 2006-GMP-093-Q1
Date

Well/Sample Number OW-03M-093
QC Sample ID NA

Samples Samples are to be collected in the order listed

Lab	Turnaround Time	Analyte	Field Filtered (Y/N)	Share Group	Bottle			Preservative	pH check	Notes
					Material	Size	Number			
TLI	10 days	CR6 (7199) Lab Filtered	N	Hex Cr	Poly	250 mls	1	4'C	NA	
TLI	10 days	Diss Metals (6010B) Chromium	Y	Metals-DissolvedField	Poly	500 mls	1	HNO3, 4'C	NA	
TLI	10 days	Specific Conductance (120.1)	N	GENCHEM	Poly	1000 mls	1	4'C	NA	
TLI	10 days	pH (150.1)	N	GENCHEM	Poly	1000 mls	1	4'C	NA	
TLI	10 days	TDS (160.1)	N	GENCHEM	Poly	1000 mls	1	4'C	NA	
EMAX	12 days	Diss Metals (6010B) Dissolved Ca,Mg,K,Na,Boron,Fe,Mn	Y	Metals-DissolvedField	Poly	500 mls	1	HNO3, 4'C	NA	
EMAX	12 days	Alkalinity (310.1)	N	GENCHEM	Poly	1000 mls	1	4'C	NA	
EMAX	12 days	Anions (300) Chloride,Sulfate, Nitrate-N	N	GENCHEM	Poly	1000 mls	1	4'C	NA	
EMAX	12 days	Ammonia (350.2)	N	GENCHEM-H2SO4	Poly	1000 mls	1	H2SO4, pH<2, 4'C	pH<2	
EMAX	12 days	Total Organic Carbon (415.2)	N	GENCHEM-H2SO4	Poly	1000 mls	1	H2SO4, pH<2, 4'C	pH<2	
EMAX	12 days	Silica (370.1)	~~Y~~ N	General	Poly	500 mls	1	4'C	NA	2 250 ml bottles
ZYM	10 days	Oxygen 18 & Deuterium (CF-IRMS)	N	Oxy_Deut	Poly	250 mls	1	4'C	NA	

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions sunny, windy ~65°F

Sampling Event 2006-GMP-093-Q1
Date 3/9/06
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Well/Sample Number OW-03S-093 **QC Sample ID** NA QC Sample Time NA

Purge Start Time 0955 (102.85' bTOC @ 0958) Purge Method Grund 2in Ded. Pump NO

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 8gal Purge Rate (gpm)/(mLpm) 1 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
102.88	1000	5	7.56	2.27	38.2	6.98	27.93	0.1	1.5	64	0.5 gal / 29 sec
102.89	1003	8	7.46	2.44	15.6	6.98	28.73	0.1	1.6	63	
102.88	1006	11	7.45	2.48	20.0	6.92	29.00	0.1	1.6	59	
	1009	14	7.43	2.49	8.5	6.64	29.05	0.1	1.6	60	
102.88	1012	17	7.43	2.48		6.77	29.23	0.1	1.6	57	
											finish 1017

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 sampling?	Y	Y	decreasing	~	NA	X	Y	Y	
Previous Field measurement (10/6/2005)	7.84	2040	6.19	7.07	30.12	0.1		-9	
Are measurements consistent with previous?	~	Y	5.6	~	NA	Y		N	

Sample Time 1012 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 102.33
WD (Well Depth - from table) ft btc (118)
SWH (Standing Water Height) = WD-Initial Depth 15.67
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)
One Casing Volume = D*SWH 2.66
Three Casing Volumes = 7.99

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: C-10123

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer
Time	Initial DTW	Time	Final DTW	Time of Removal NA
				Time of Reinstallation
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

An List

Field Team

Project Name PGE Topock GMP

Job Number 338234.GM.02.00

Sampling Event 2006-GMP-093-Q1

Date 3/9/06

Well/Sample Number	OW-03S-093
QC Sample ID	NA

Samples Samples are to be collected in the order listed

Lab	Turnaround Time	Analyte	Field Filtered (Y/N)	Share Group	Bottle			Preservative	pH check	Notes
					Material	Size	Number			
TLI	10 days	CR6 (7199) Lab Filtered	N	Hex Cr	Poly	250 mls	1	4'C	NA	
TLI	10 days	Diss Metals (6010B) Chromium	Y	Metals-DissolvedField	Poly	500 mls	1	HNO3, 4'C	NA	
TLI	10 days	Specific Conductance (120.1)	N	GENCHEM	Poly	1000 mls	1	4'C	NA	
TLI	10 days	pH (150.1)	N	GENCHEM	Poly	1000 mls	1	4'C	NA	
TLI	10 days	TDS (160.1)	N	GENCHEM	Poly	1000 mls	1	4'C	NA	
EMAX	12 days	Diss Metals (6010B) Dissolved Ca,Mg,K,Na,Boron,Fe,Mn	Y	Metals-DissolvedField	Poly	500 mls	1	HNO3, 4'C	NA	
EMAX	12 days	Alkalinity (310.1)	N	GENCHEM	Poly	1000 mls	1	4'C	NA	
EMAX	12 days	Anions (300) Chloride,Sulfate, Nitrate-N	N	GENCHEM	Poly	1000 mls	1	4'C	NA	
EMAX	12 days	Ammonia (350.2)	N	GENCHEM-H2SO4	Poly	1000 mls	1	H2SO4, pH<2, 4'C	pH<2	
EMAX	12 days	Total Organic Carbon (415.2)	N	GENCHEM-H2SO4	Poly	1000 mls	1	H2SO4, pH<2, 4'C	pH<2	
EMAX	12 days	Silica (370.1)	N	General	Poly	500 mls	1	4'C	NA	2 250 ml
ZYM	10 days	Oxygen 18 & Deuterium (CF-IRMS)	N	Oxy_Deut	Poly	250 mls	1	4'C	NA	

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions

Sampling Event 2006-GMP-093-Q1
Date 15 March 06
Page 1 of 1

Well/Sample Number TW-02D-093 **QC Sample ID** NA QC Sample Time

Purge Start Time 1432 Purge Method Nt Ded. Pump Yes

Flow Cell: (Y) N Min. Purge Volume (gal)/(L) — Purge Rate (gpm)/(mLpm) 60 GPM

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
	1439	approx 480	7.46	8.47	0.56	5.20	26.30	0.5	5.5	5	
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 sampling?							NA				
Previous Field measurement (6/15/2005)			7.7	9400	13	4.96	29.26	0.5		147	
Are measurements consistent with previous?							NA				

Sample Time 1440 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

WD (Well Depth - from table) ft btc (150)

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

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (6 in)

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal ____
Time	Initial DTW	Time	Final DTW	Time of Reinstallation ____
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions

Sampling Event 2006-GMP-093-Q1
Date 15 March 06
Page 1 of 1

Well/Sample Number TW-02S-093 **QC Sample ID** NA QC Sample Time

Purge Start Time [redacted]1414 Purge Method NA Ded. Pump NA

Flow Cell: Y / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
1424	[redacted]	[redacted]	7.84	3.20	2.48	7.53	27.97	0.2	2.1	-38	
		Approx 450 Gal									

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 sampling?						NA				
Previous Field measurement	(10/7/2005)	6.24	3320	1.7	8.57	22.1	0.17		204	
Are measurements consistent with previous?						NA				

Sample Time [redacted] Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: 1425

Initial Depth to Water (ft BTOC): ____

WD (Well Depth - from table) ft btc (102.05)

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

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (6 in)

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal ____
Time	Initial DTW	Time	Final DTW	Time of Reinstallation ____
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 Field Conditions cloudy, windy, 70°C

Sampling Event 2006-GMP-093-Q1
Date 3/6/06 begin 1300
Page 1 of 1

Well/Sample Number PM-03-093 **QC Sample ID** NA QC Sample Time NA
Purge Start Time NA Purge Method active pump Ded. Pump ✓
Flow Cell: Y / (N) Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) NA
active, not a measured purge volume

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
NA	1304	NA	8.04	1.10	0 +	5.46	24.59	0.05	0.71	292	from horiba ~~flow bottle~~ cup ~~overflow~~
NA	1311	NA	8.01	1.11	0 +	~~5~~ 4.67	29.10	0.05	0.71	275	from 1-L bottle overflow

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 sampling?	Y	Y	(neg value)	Y	NA	Y	Y	Y	
Previous Field measurement (12/16/2005)	7.96	2860	9.85	3.67	28.83	0.14		-26	? triple checked our new values, think OK
Are measurements consistent with previous?	~	N	~	~	NA	N		N	

Sample Time 1305 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other active supply well
Comments: all measurements from Horiba meter (HACH meter not working)
+ used Horiba, HACH not working

Initial Depth to Water (ft BTOC): NA
WD (Well Depth - from table) ft btc (252)
SWH (Standing Water Height) = WD-Initial Depth
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (8 in)
One Casing Volume = D*SWH
Three Casing Volumes =

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand
none

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 Field Conditions cloudy, windy ~70°C

Sampling Event 2006-GMP-093-Q1
Date 3/6/06
Page 1 of 1

Well/Sample Number CON-093 **QC Sample ID** NA QC Sample Time NA
Purge Start Time NA Purge Method NA Ded. Pump NA
Flow Cell: Y / (N) Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) NA

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity + mS/cm	Turbidity * NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
NA	1238	NA	8.51	0.90	3.81 (?)	10.69	12.70	0.04	0.687	299	Horiba on river bed 4' from Shore
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 sampling?			Y	ERR?	Y	9.33 to 12.2	NA	Y	Y	Y	
Previous Field measurement (2/9/2006)			8.59	1180	3.7	10.94	12.06	0.1		163	river Δs seasonally
Are measurements consistent with previous?			Y	~	Y	Y	NA	~			

Sample Time 1240 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ (other) 1L bottle on long arm into river
Comments: + 0.90 + 0.999 jumps between, error?
* used HACH unit (may have error - next consecutive reading were 3.81)

Initial Depth to Water (ft BTOC): NA
WD (Well Depth - from table) ft btc
SWH (Standing Water Height) = WD-Initial Depth
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04
One Casing Volume = D*SWH
Three Casing Volumes =

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

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer NA
Time	Initial DTW	Time	Final DTW	Time of Removal
				Time of Reinstallation

Comments:

Color: (clear), grey, yellow, brown, black, cloudy, green **Odor:** (none), sulphur, organic, other **Solids:** (Trace), Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 Field Conditions partly cloudy, 70°F

Sampling Event 2006-GMP-093-Q1
Date 3/6/06
Page 1 of 1

Well/Sample Number I-3-093 **QC Sample ID** NA QC Sample Time NA
Purge Start Time NA Purge Method NA Ded. Pump
Flow Cell: Y / (N) Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) NA

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity* NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
5.21'	0915	NA	7.40	0.93	4.42	12.20	12.84	0.04	0.59	217	meter place directly in river wate

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 sampling?	Y	Y	Y	jumping	NA	Y	Y	Y	
Previous Field measurement (2/10/2006)	7.68	1170 µS/cm	2.49	11.1	11.57	0.1		258	varies seasonally so OK
Are measurements consistent with previous?	Y	~	~	~	NA	~		~	

Sample Time 0915 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other from walkway, use cut off bottle on rope
Comments: * Hach 2100P turbidity meter used ~~FIT~~ CH2M HILL 101487
Horiba ~~RST~~ U-22 multimeter : T1112035, WL meter CH2M HILL 101013

Initial Depth to Water (ft BTOC): NA
WD (Well Depth - from table) ft btc NA
SWH (Standing Water Height) = WD-Initial Depth NA
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 NA
One Casing Volume = D*SWH NA
Three Casing Volumes = NA

Measure Point: Well TOC Steel Casing (base of 60/t on walkway) WATER LEVEL METER SERIAL NUMBER: 101013

Initial DTW / Before Removal		If Transducer NA		
		Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation

Comments:

Color: (clear), grey, yellow, brown, black, cloudy, green
Odor: (none), sulphur, organic, other
Solids: (Trace), Small Qu, Med Qu, Large Qu, (Particulate), Silt, Sand
some bark

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 Field Conditions cloudy windy ~70°F

Sampling Event 2006-GMP-093-Q1
Date 3/6/06 1135 start
Page 1 of 1

Well/Sample Number NR-1-093 **QC Sample ID** NA QC Sample Time NA
Purge Start Time NA Purge Method NA Ded. Pump NA
Flow Cell: Y / (N) Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) NA

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
NA	1140	NA	8.38	0.90	3.81	11.18	12.35	0.05	0.672	296	reading taken w/ meter resting on river bottom
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 sampling?			jumping 8.33 to 8.44	ERR?	Y	9.81 - 12.50	NA	Y	Y	Y	
Previous Field measurement (2/7/2006)			8.62	1130	6.11	12.47	12.1	0.1		102	seasonally changes OK
Are measurements consistent with previous?			~	~	~	~	NA	~		N	

Sample Time 1140 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ (other) 1L bottle on long arm to get SW sample
Comments: used HACH meter, see 1-3 sheet for info
± 0.999 ± 0.90 reading - error?

Initial Depth to Water (ft BTOC): NA
WD (Well Depth - from table) ft btc
SWH (Standing Water Height) = WD-Initial Depth
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04
One Casing Volume = D*SWH
Three Casing Volumes =

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

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		**If Transducer** NA
Time	Initial DTW	Time	Final DTW	Time of Removal
				Time of Reinstallation

Comments:

Color: (clear) grey, yellow, brown, black, cloudy, green
Odor: (none) sulphur, organic, other
Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand
(none visible)

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 Field Conditions cloudy, windy ~70 F

Sampling Event 2006-GMP-093-Q1
Date 3/6/06 start 1157
Page 1 of 1

Well/Sample Number NR-2-093 **QC Sample ID** NA QC Sample Time NA
Purge Start Time NA Purge Method NA Ded. Pump NA
Flow Cell: Y / (N) Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) NA

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity + mS/cm	Turbidity * NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
NA	1158	NA	8.50	0.90	3.81 (294 on probe)	11.08	12.76	0.04	0.660 ~~0.54~~	296	Horiba resting in river bed 5' from shore
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 sampling?			~~3~~ Y	ERR?	Y	Fluct.	NA	Y	Y	Y	
Previous Field measurement (2/7/2006)			8.13	1140	16.2	11.97	11.6	0.1		101	Seasonally Δs, OK
Are measurements consistent with previous?			~	~	N	~	NA	~		N	

Sample Time 1200 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ (other) 1L bottle w/ long arm + river

Comments: *HACH meter used, acting odd, also recorded Horiba U-22 reading for ref. + 0.90 to 0.959 - ~~fractured~~ alternate, error?

Initial Depth to Water (ft BTOC): NA
WD (Well Depth - from table) ft btc
SWH (Standing Water Height) = WD-Initial Depth
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04
One Casing Volume = D*SWH
Three Casing Volumes =

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

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer NA
Time	Initial DTW	Time	Final DTW	Time of Removal
				Time of Reinstallation
Comments:				

Color: (clear), grey, yellow, brown, black, cloudy, green **Odor:** (none), sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand None

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 Field Conditions cloudy, windy 70°F

Sampling Event 2006-GMP-093-Q1
Date 3/6/06 start 12:12
Page 1 of 1

Well/Sample Number NR-3-093 **QC Sample ID** NA QC Sample Time NA
Purge Start Time NA Purge Method NA Ded. Pump NA
Flow Cell: Y / (N) Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) NA

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity + mS/cm	Turbidity * NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
NA	1215	NA	8.40	0.90	3.81 (3.4 by Hach)	11.49	12.16	0.04	0.645	294	meter resting on river bottom 4' from shore

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 sampling?	Y	EKR?	Y	fluctuates ~~stable~~	NA	✓	Y	Y	
Previous Field measurement (2/7/2006)	8.06	1150	2.34	12.03	11.6	0.1		96	seasonal fluctuations, OK
Are measurements consistent with previous?	~	~	~	~	NA	~		~	

Sample Time 1215 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other 1L bottle on arm into SW
Comments: + Cond alternate b/w 0.90 & 0.999 - error
* HACH meter used.

Initial Depth to Water (ft BTOC): NA
WD (Well Depth - from table) ft btc
SWH (Standing Water Height) = WD-Initial Depth
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04
One Casing Volume = D*SWH
Three Casing Volumes =

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

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer NA
Time	Initial DTW	Time	Final DTW	Time of Removal
				Time of Reinstallation

Comments:

Color: (clear), grey, yellow, brown, black, cloudy, green **Odor:** (none), sulphur, organic, other **Solids:** (Trace), Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 Field Conditions partly cloudy ~70 F

Sampling Event 2006-GMP-093-Q1
Date 3/6/06, onsite 0959
Page 1 of 1

Well/Sample Number R-22-093 **QC Sample ID** NA QC Sample Time NA
Purge Start Time NA Purge Method NA Ded. Pump NA
Flow Cell: Y / (N) Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) NA

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity † mS/cm	Turbidity* NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
NA	1000	NA	8.09	0.90	2.64	11.83	12.48	0.04	0.56	290	took directly from river - Horiba on river bottom ~ 5' from shore

Parameter Stabilization Criteria	pH	Conductivity	Turbidity	Diss. Oxygen	Temp.	Salinity	TDS	Eh/ORP	
	+/- 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 sampling?	fluct.	Y	ERR?	fluct.	NA	Y	Y	Y	
Previous Field measurement (2/8/2006)	8.36	831	7.23	11.83	12.24	0		207	varies seasonally, OK
Are measurements consistent with previous?	~	~	~	~	NA	~		~	

Sample Time 1002 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other 1L poly on extended arm

Comments: *HACH kit, see 1-3 sheet for instrument info
† alternate b/w used 0.90 & 0.999, error?

Initial Depth to Water (ft BTOC): NA
WD (Well Depth - from table) ft btc
SWH (Standing Water Height) = WD-Initial Depth
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04
One Casing Volume = D*SWH
Three Casing Volumes =

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

Initial DTW / Before Removal		If Transducer NA		
		Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 Field Conditions cloudy, 70F

Sampling Event 2006-GMP-093-Q1
Date 3/6/06 start 10:12
Page 1 of 1

Well/Sample Number R-27-093 **QC Sample ID** NA QC Sample Time

Purge Start Time NA Purge Method NA Ded. Pump NA

Flow Cell: Y / N Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) NA

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity* NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
NA	10:16	NA	8.19	0.90+	3.81	11.47	12.69	0.05-	0.55	287	directly from SW, Horiba on river bottom ~5' from shore

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 sampling?	Y	ERR?	ERR?	Y	NA	Y	Y	Y	
Previous Field measurement (2/8/2006)	8.26	838	7.78	11.87	12.43	0		199	seasonally DS, OK
Are measurements consistent with previous?	~	~	N	~	NA			N	

Sample Time 1017 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ (other) 1-L poly on extended arm

Comments: *HACH meter, see 1-3 sample sheet for instrument info
+Cond flashing b/w 0.999 & 0.90 - error? Calibration was fine?

Initial Depth to Water (ft BTOC): NA

WD (Well Depth - from table) ft btc

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04

One Casing Volume = D*SWH

Three Casing Volumes =

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

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer NA
Time	Initial DTW	Time	Final DTW	Time of Removal
				Time of Reinstallation
Comments:				

Color: (clear), grey, yellow, brown, black, cloudy, green **Odor:** (none), sulphur, organic, other **Solids:** (Trace), Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 Field Conditions partly cloudy, windy, 70°F

Sampling Event 2006-GMP-093-Q1
Date 3/6/06 on site 1043
Page 1 of 1

Well/Sample Number R-28-093 **QC Sample ID** NA QC Sample Time NA

Purge Start Time NA Purge Method NA Ded. Pump NA

Flow Cell: Y / (N) Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) NA

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity * NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
NA	1050	NA	8.17	0.90+	41.6 (Horiba)	12.39	12.53	0.04	0.56	287	set Horiba on river bottom ~3' from shore

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 sampling?	Y	ERR?	Y	fluctuate	NA	Y	Y	Y	
Previous Field measurement (2/8/2006)	8.41	1150	3.4	12.57	12	0.1		185	changes seasonally, OK
Are measurements consistent with previous?	~	~	NO see note	Y	NA	~		N	

Sample Time 1045 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other 1L bottle, on long arm

Comments: * used Horiba unit for turb. - HACH meter's battery is dead
alternates b/w 0.90 & 0.999, error?

Initial Depth to Water (ft BTOC): NA
WD (Well Depth - from table) ft btc
SWH (Standing Water Height) = WD-Initial Depth
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04
One Casing Volume = D*SWH
Three Casing Volumes =

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

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer NA
Time	Initial DTW	Time	Final DTW	Time of Removal
				Time of Reinstallation

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green (green in river, not in bottles)

Odor: none, sulphur, organic, other

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

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 Field Conditions cloudy, windy, ~70°F

Sampling Event 2006-GMP-093-Q1
Date 3/6/06
Page 1 of 1

Well/Sample Number RRB-093 **QC Sample ID** NA QC Sample Time NA
Purge Start Time NA Purge Method NA Ded. Pump NA
Flow Cell: Y / (N) Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) NA

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
21.90	1340		8.41	0.92	24.6*	11.68	15.04	0.04	0.59	275	collected in 1-L bottle + used Horiba in (not overflow)

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 sampling?						NA				
Previous Field measurement	(2/8/2006)	8.54	1630		11.51	13.84	0.1		142	
Are measurements consistent with previous?		~	~		~	NA	~		FD	

Sample Time 1340 Sample Location: pump tubing ____ well port ____ spigot ____ bailer X other ____
Comments: * used Horiba unit only. HACH kit not working

Initial Depth to Water (ft BTOC): ____
WD (Well Depth - from table) ft btc ____
SWH (Standing Water Height) = WD-Initial Depth ____
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 ____
One Casing Volume = D*SWH ____
Three Casing Volumes = ____

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

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer
Time	Initial DTW	Time	Final DTW	Time of Removal ____
				Time of Reinstallation ____
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green
Odor: none, sulphur, organic, other
Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand
plant matter

Leda

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-093-Q1] 952458

COC Number

TURNAROUND TIME 10 Days

DATE 3/6/06 PAGE 1 OF 2

COMPANY CH2M HILL

PROJECT NAME PG&E Topock

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000, Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 3

SAMPLERS (SIGNATURE See next page

Rec'd 03/06/06 952458

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (218.6) Lab Filtered	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Diss Metals (6010B) Lab Filtered Chromium	Total Metals (200.7) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)						NUMBER OF CONTAINERS	COMMENTS
1-3-093	3/6/06	0915	surface water			✓		✓		✓	✓							3	
R-22-093	3/6/06	1002	surface water			✓		✓		✓	✓							3	
R-27-093	3/6/06	1017	surface water			✓		✓		✓	✓	✓						3	
R-28-093	3/6/06	1045	surface water			✓		✓		✓	✓	✓						3	
NR-1-093	3/6/06	1140	surface water			✓		✓		✓	✓							3	
NR-2-0903	3/6/06	1200	surface water			✓		✓		✓	✓							3	
NR-3-0903	3/6/06	1215	surface water			✓		✓		✓	✓							3	
CON-093	3/6/06	1240	surface water			✓		✓		✓	✓							3	
PM-03-093	3/6/06	1305	groundwater	✓					✓	✓	✓							3	

pH=7

ALERT!! Level III QC

CHAIN OF CUSTODY SIGNATURE RECORD

	Signature	Printed Name	Company/ Agency	Date/ Time
Relinquished	See next page			
Received				
Relinquished			EXE	3/6/06 5:00 pm
Received			TLI	3/6/06 8:00
Relinquished				
Received				

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

For Sample Conditions See Form Attached

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-093-Q1] 952458

COC Number

TURNAROUND TIME 10 Days

DATE 3/6/06 PAGE 2 OF 2

COMPANY: CH2M HILL
PROJECT NAME: PG&E Topock
PHONE: (510) 251-2888 FAX: (510) 622-7086
ADDRESS: 155 Grand Ave Ste 1000, Oakland, CA 94612
P.O. NUMBER: 338234.GM.02.00 TEAM A3 KLD
SAMPLERS (SIGNATURE):

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (218.6) Lab Filtered	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Diss Metals (6010B) Lab Filtered Chromium	Total Metals (200.7) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
RRB-093	3/6/06	1340	Surface water			✓		✓		✓	✓		3	pH = 7
													30	TOTAL

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Kathryn Brown	CH2M HILL	3/6/06 1530
Signature (Received)			
Signature (Relinquished)	Fred Darling	EXP	3/6/06 2:00 pm
Signature (Received)	Jerome Sutton	TCL	3/6/06 8:00
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

060062

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-093-Q1]

COC Number

TURNAROUND TIME 12 Days

DATE 3/6/06 PAGE 1 OF 1

COMPANY CH2M HILL

PROJECT NAME PG&E Topock GWM

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 3

SAMPLERS (SIGNATURE)

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,Boron,Fe,Mn	Diss Metals (6010B) Field Filtered Title 22 Ca,Mg,K,Na,B,Fe,Mn	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Bromide,Chloride,Sulfate,Nitrate-N	Anions (300) Chloride,Sulfate, Nitrate-N	Ammonia (350.2)	Total Organic Carbon (415.2)	Silica (370.1)	NUMBER OF CONTAINERS	COMMENTS
8	R-27-093	3/6/06	1017	surface water	✓			✓	✓		✓			3	
9	R-28-093	3/6/06	1045	surface water	✓			✓	✓		✓			3	
														6	TOTAL

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Kathryn Brown	CH2M HILL	3/6/06 1530
Signature (Received)			
Signature (Relinquished)	~~Printed~~ Name FRED Dewitt	Company/ Agency EXE	Date/ Time 3/6/06 8:00 PM
Signature (Received)			
Signature (Relinquished)	L. Stephenson	TLI	3/7/06 1020
Signature (Received)	Phil Hatcher	EMAX	3706 1021

Phil Hatcher 3-7-06 1445

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-093-Q1]

COC Number 999
TURNAROUND TIME 10 Days
DATE 3/6/06 PAGE 1 OF 1

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 3
SAMPLERS (SIGNATURE)

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
R-27-093	3/6/06	1017	surface water	✓	1	
R-28-093	3/6/06	1045	Surface water	✓	1	
					2 TOTAL	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Kathryn Brown	CH2M HILL	3/6/06 1530
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

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-093-Q1] 952459

COC Number

TURNAROUND TIME 10 Days

DATE 3/6/06 PAGE 1 OF 1

COMPANY	CH2M HILL
PROJECT NAME	PG&E Topock
PHONE	(510) 251-2888 FAX (510) 622-7086
ADDRESS	155 Grand Ave Ste 1000, Oakland, CA 94612
P.O. NUMBER	338234.GM.02.00 TEAM 3
SAMPLERS (SIGNATURE	

Rec'd 03/06/06
952459

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (218.6) Lab Filtered	CR6 (1796A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Diss Metals (6010B) Lab Filtered Chromium	Total Metals (200.7) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	Anions (300.0 Br, Cl, SO4)	NUMBER OF CONTAINERS
MW-27-020-093	3/6/06	1055	GW			X	X			X	X	X	X	2
MW-27-085-093	3/6/06	1130	GW			X	X			X	X	X		2
MW-33-210-093	3/6/06	1309	GW			X	X			X	X	X		2
MW-28-90-093	3/6/06	1432	GW			X	X			X	X	X		2

COMMENTS

ALERT!! Level III QC

For Sample Conditions See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Matt Hagen	CH2M HILL	3/6/06 1520
Signature (Received)			
Signature (Relinquished)	Fred Duran	EVE	3/6/06 5:00 PM
Signature (Received)	Steve B	TLI	3/7/06 8:00
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

FROM TRUESDAIL LABS 714 730 6462 (WED) MAR 8 2006 7:09/ST. 7:08/No. 6828828709 P 2

I2

061062

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-093-Q1]

COC Number

TURNAROUND TIME 12 Days

DATE 3/6/06 PAGE 1 OF 1

COMPANY: CH2M HILL
PROJECT NAME: PG&E Topock GWM
PHONE: (510) 251-2888 FAX: (510) 622-7086
ADDRESS: 155 Grand Ave Ste 1000, Oakland, CA 94612
P.O. NUMBER: 338234.GM.02.00 TEAM:
SAMPLERS (SIGNATURE):

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,Boron,Fe,Mn	Diss Metals (6010B) Field Filtered Title 22 Ca,Mg,K,Na,B,Fe,Mn	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Bromide,Chloride,Sulfate,Nitrate-N	Anions (300) Chloride,Sulfate,Nitrate-N	Ammonia (350.2)	Total Organic Carbon (415.2)	Silica (370.1)	NUMBER OF CONTAINERS	COMMENTS
1	MW-27-020-093	3/6/06	1055	GW	X			X	~~X~~		X	X	X		Anions will be analyzed by Traesdail Lab. Please analyze the Short list of Anions 3/7/06 SPD
2	MW-27-085-093	3/6/06	1130	GW	X			X	~~X~~	X	X	X	X		
3	MW-32-210-093	3/6/06	1304	GW	X			X	~~X~~	X	X	X	X		
4	MW-28-090-093	3/6/06	1432	GW	X			X		X	X	X	X		

CHAIN OF CUSTODY SIGNATURE RECORD

	Signature	Printed Name	Company/ Agency	Date/ Time
Relinquished		Matt Riggin	CH2M Hill	3/6/06 1530
Received				
Relinquished		~~Printed~~ Name Todd Douglas	Company/ Agency EVE	Date/ Time 3/6/06 9:00 PM
Received				
Relinquished			Company/ Agency TLI	Date/ Time 3/7/06 10:20
Received		Phil Hatton	Company/ Agency EMAX	Date/ Time 3-7-06 10:21

SAMPLE CONDITIONS 2.7 °C

RECEIVED COOL ☒ WARM ☐ 3.4 °C

CUSTODY SEALED YES ☐ NO ☐ 3.0 °C

SPECIAL REQUIREMENTS:

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-093-Q1]

COC Number 999
TURNAROUND TIME 10 Days
DATE 3/6/06 PAGE ___ OF ___

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM ___
SAMPLERS (SIGNATURE

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-27-020-093	3/6/06	1055	GW	X		
MW-27-085-093	3/6/06	1130	GW	X		
MW-33-210-093	3/6/06	1304	GW	X		
MW-28-090-093	3/6/06	1432	GW	X		

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Matt Ringius	CH2M Hill	3/6/06 1530
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

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-093-Q1] 952460

COC Number

TURNAROUND TIME 10 Days

DATE 6 March 06 PAGE 1 OF 1

COMPANY CH2M HILL

PROJECT NAME PG&E Topock

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM

SAMPLERS (SIGNATURE)

Rec'd 03/06/06
952460

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Cr6 (218.6) Lab Filtered	Cr6 (7196A) Lab Filtered	Cr6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Diss Metals (6010B) Lab Filtered Chromium	Total Metals (200.7) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	E120.1 E150.1	NUMBER OF CONTAINERS	COMMENTS
MW-10-093	6 March 06	1149	250/500/1000 Poly		1		1						1	3	pH=2
MW-11-093	6 March 06	1244	250 500 1000 Poly		1		1						1	3	
MW-24A-093	6 Mar 06	1335	250 500 1000 mL Poly		1		1						1	3	

ALERT!! Level III QC

For Sample Conditions See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Richard Ricks	CH2M Hill	6 March 06 1441
Signature (Received)			
Signature (Relinquished)	Peter Dooley	FXE	3/6/06 1900
Signature (Received)	Irene B.	TL	3/6/06 8:00
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☒ NO ☐

SPECIAL REQUIREMENTS:

060062

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-093-Q1]

COC Number

TURNAROUND TIME 12 Days

DATE 6 March PAGE 1 OF 1

COMPANY CH2M HILL

PROJECT NAME PG&E Topock GWM

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE)

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,Boron,Fe,Mn	Diss Metals (6010B) Field Filtered Tote Zz, Ca,Mg,K,Na,B,Fe,Mn	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Bromide,Chloride,Sulfate,Nitrate-N	Anions (300) Chloride,Sulfate, Nitrate-N	Ammonia (350.2)	Total Organic Carbon (415.2)	Silica (370.1)	NUMBER OF CONTAINERS	COMMENTS
5	MW-10-093	6 March 06	1149	2 1000 mL 3500 mL Poly	No	X	1	1	1	1	1	1	1	5	Please follow this correction. 3/14/06 SPD
6	MW-11-093	6 March 06	1241	2 1000 mL 3500 mL Poly		1	1	1	1	1	1	1	1	5	
7	MW-24A-093	6 March 06	1335	2 1000 mL 3500 mL Poly	X	No	1	1	1	1	1	1	1	5	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Richy L Ricks	CH2M Hill	6 March 06 1441
Signature (Received)			
Signature (Relinquished)	~~Printed Name~~ KED DOUGLAS	EVE	3/7/06 7:00 AM
Signature (Received)	~~Printed Name~~	~~Company/ Agency~~	~~Date/ Time~~
Signature (Relinquished)	L. Shabienne	TLI	3/7/06 10:20
Signature (Received)	Phil Hotelin 3-7-06 1445	EMAX	3 7 06 1021

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☑ NO ☐

SPECIAL REQUIREMENTS:

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-093-Q1]

COC Number 999
TURNAROUND TIME 10 Days
DATE 6 March 06 PAGE 1 OF 1

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-10-093	6March06	1149	250 Mil 4C	1	1	
MW-11-093	6Mar06	1244	250Mil 4C	1	1	
MW-24A093	6Mar06	1335	250Mil 4C	1	1	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Richy L Ricks	CH2MHill	6 March 06 1441
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☒ NO ☐

SPECIAL REQUIREMENTS:

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

CHAIN OF CUSTODY RECORD

952510

[2006-GMP-093-Q1]

COC Number

TURNAROUND TIME 10 Days

DATE 3/7/06 PAGE 1 OF 1

COMPANY	CH2M HILL
PROJECT NAME	PG&E Topock
PHONE	(510) 251-2888 FAX (510) 622-7086
ADDRESS	155 Grand Ave Ste 1000, Oakland, CA 94612
P.O. NUMBER	338234.GM.02.00 TEAM 3
SAMPLERS (SIGNATURE)	

ALERT!! Level III QC

Rec'd 03/07/06 952510

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (218.6) Lab Filtered	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Diss Metals (6010B) Lab Filtered Chromium	Total Metals (200.7) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
MW-36-20-093	3/7/06	0935	groundwater			X	X			X	X	X	3	
MW-36-30-093	3/7/06	1015	groundwater			X	X			X	X	X	3	
MW-36-50-093	3/7/06	1115	groundwater			X	X			X	X	X	3	
MW-96-093	3/7/06	1045	groundwater			X	X			X	X	X	3	
MW-36-40-093	3/7/06	1205	groundwater			X	X			X	X	X	3	
MW-36-90-093	3/7/06	1320	groundwater		X		X			X	X	X	3	
MW-39-40-093	3/7/06	1450	groundwater			X	X			X	X	X	3	
														pH = 2
													21	total

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Laura Elliott	CH2M Hill	3/7/06 1530
Signature (Received)			
Signature (Relinquished)	FRED DURAN	EXE	3/7/06 8:30 pm
Signature (Received)	L. McGuire	TRI	3/7/06 20:30
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

For Sample Conditions See Form Attached

B7

060078

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-093-Q1]

COC Number

TURNAROUND TIME 12 Days

DATE _____ PAGE ___ OF ___

COMPANY CH2M HILL

PROJECT NAME PG&E Topock GWM

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 3

SAMPLERS (SIGNATURE) L M Elliott

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,Boron,Fe,Mn	Diss Metals (6010B) Field Filtered Title 22 Ca,Mg,K,Na,B,Fe,Mn	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Bromide,Chloride,Sulfate,Nitrate-N	Anions (300) Chloride,Sulfate, Nitrate-N	Ammonia (350.2)	Total Organic Carbon (415.2)	Silica (370.1)	NUMBER OF CONTAINERS	COMMENTS
1	MW-36-20-093	3/7/06	0935	groundwater	X			X	No	X	X	X	X	5	
2	MW-36-~~40~~ 70-093	3/7/06	1015	groundwater	X			X	No	X**	X	X	X	5	**Please note correction on anions list SPD 3/14/06
3	MW-36-50-093	3/7/06	1115	groundwater	X			X	No	X	X	X	X	5	
4	MW-~~B~~96-093	3/7/06	1045	groundwater	X			X	No	X	X	X	X	5	
5	MW-36-40-093	3/7/06	1205	groundwater	X			X	No	X	X	X	X	5	
6	MW-36-90-093	3/7/06	1320	groundwater	X			X	No	X	X	X	X	5	
7	MW-39-40-093	3/7/06	1450	groundwater	X			X	No	X	X	X	X	5	
														35	total

CHAIN OF CUSTODY SIGNATURE RECORD

	Signature	Printed Name	Company/ Agency	Date/ Time
Relinquished	L Mellott	Laura Elliott	CH2M Hill	3/7/06 1530
Received				
Relinquished	~~Fred Douglas~~	FRED DOUGLAS	EXE	3/7/06 8:30 PM
Received	L. Shabienne	L. Shabienne	TTI	3/7/06 20:30
Relinquished	L. Shabienne	L. Shabienne	TTI	3/8/06 9:35
Received	Phil Hatcher	Phil Hatcher	EMAX	3.8.06 9.35

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

Cooler #1 T = 2.5°C
Cooler #2 T = 3.2°C
Cooler #3 T = 2.8°C
Cooler #4 T = 3.5°C

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-093-Q1]

COC Number 999
TURNAROUND TIME 10 Days
DATE 3/7/06 PAGE 1 OF 1

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 3
SAMPLERS (SIGNATURE) LM Elliott

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-36-20-093	3/7/06	0935	groundwater	X	1	
MW-36-~~30~~40-093	3/7/06	1015	groundwater	X	1	
MW-36-50-093	3/7/06	1115	groundwater	X	1	
MW-96-093	3/7/06	1045	groundwater	X	1	
MW-36-40-093	3/7/06	1205	groundwater	X	1	
MW-36-90_093	3/7/06	1320	groundwater	X	1	
MW-39-40-093	3/7/06	1450	groundwater	X	1	
					7	total.

CHAIN OF CUSTODY SIGNATURE RECORD

	Signature	Printed Name	Company/ Agency	Date/ Time
Relinquished	LM Elliott	Laura Elliott	CH2M HILL	3/7/06 1530
Received				
Relinquished				
Received				
Relinquished				
Received				

SAMPLE CONDITIONS
RECEIVED COOL ☐ WARM ☐ °F
CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

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

CHAIN OF CUSTODY RECORD

952510 [2006-GMP-093-Q1]

COC Number
TURNAROUND TIME 10 Days
DATE 7 March 06 PAGE 1 OF 1

COMPANY CH2M HILL
PROJECT NAME PG&E Topock
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000, Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE)

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (218.6) Lab Filtered	CR6 (7196) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Diss Metals (6010B) Lab Filtered Chromium	Total Metals (200.7) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
-8 MW-09-093	7 March	1024		/	1	/	1	/	/	1	1	1	3	
-9 MW-90-093	7 March	1024		/	1	/	1	/	/	1	1	1	3	
-10 MW-24B-093	7 March	1141		/	1	/	1	/	/	1	1	1	3	pH=2
-11 MW-15-093	~~7 March~~	~~1333~~ 1333		/	ND	X	1	/	/	1	1	1	3	
-12 ~~MW-15~~-093 SPD 3/4/06	~~7 March~~	~~1420~~ 1420		/	ND	X	1	/	/	1	1	1	3	ID. MW-16-093 SPD 3/4/06
						→	6u	7199						
						SPD 3/8/06								

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Richard Ricks	CH2MHill	7 March 06 1600
Signature (Received)			
Signature (Relinquished)	~~FRED~~ Douglas	EVE	3/7/06 8:30 PM
Signature (Received)	L. Shabennine	TZI	3/7/06 20:30
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS
RECEIVED COOL ☐ WARM ☐ °F
CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

0GC078

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-093-Q1]

COC Number

TURNAROUND TIME 12 Days

DATE 7March06 PAGE 1 OF 1

COMPANY CH2M HILL

PROJECT NAME PG&E Topock GWM

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM ____

SAMPLERS (SIGNATURE

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,Boron,Fe,Mn	Diss Metals (6010B) Field Filtered Title 22, Ca,Mg,K,Na,B,Fe,Mn	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Bromide,Chloride,Sulfate,Nitrate-N	Anions (300) Chloride,Sulfate, Nitrate-N	Ammonia (350.2)	Total Organic Carbon (415.2)	Silica (370.1)	NUMBER OF CONTAINERS	COMMENTS
8	MW-09-093	7March	1024	2500 2 1000 mL Poly			1	1	1	1	1	1	1	4	
9	MW-90-093	7March	1024	2500 2 1000 mL Poly			1	1	1	1	1	1	1	4	
10	MW-24B-093	7March	1141	2500 2 1000 mL Poly			1	1	1	1	1	1	1	4	
11	MW-15-093	7March	1333	2500 2 1L 2 250 mL Poly			1	1	1	1	1	1	2	5	
12	MW-16-093	7March	1420	1500 2 1L 2 250 mL Poly			1	1	1	1	1	1	2		

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name Richy L Ricks	Company/ Agency CH2MHill	Date/ Time 7March06 1600
Signature (Received)	Printed Name L. Shakerman	Company/ Agency TTI	Date/ Time 3/7/06 20:25
Signature (Relinquished)	Printed Name L. Shakerman	Company/ Agency TTI	Date/ Time 3/8/06 9:3
Signature (Received)	Printed Name Phil Hatcher	Company/ Agency EMAX	Date/ Time 3-8-06 9:35
Signature (Relinquished)	Printed Name Phil Hatcher	Company/ Agency EMAX	Date/ Time 3-8-06 1345
Signature (Received)	Printed Name INDRA PATEL	Company/ Agency EMAX	Date/ Time 3-8-06 1345

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-093-Q1]

COC Number 999
TURNAROUND TIME 10 Days
DATE _____ PAGE 1 OF 1

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE) RCR

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-09-093	7March06	1024	250ML Poly	1	1	
MW-90-093	7March06	1024	250ML Poly	1	1	
MW-24B-093	7March06	1141	250ML Poly	1	1	
MW-15-093	7March06	1333	250ML Poly	1	1	
MW-16-093	7March06	1420	250ML Poly	1	1	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) RCR	Richy L Ricks	CH2MHill	7March06 1000
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

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-093-Q1]

952510

COC Number

TURNAROUND TIME 10 Days

DATE 3/7/06 PAGE 1 OF 1

COMPANY	CH2M HILL
PROJECT NAME	PG&E Topock
PHONE	(510) 251-2888 FAX (510) 622-7086
ADDRESS	155 Grand Ave Ste 1000, Oakland, CA 94612
P.O. NUMBER	338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE	

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Cr6 (218.6) Lab Filtered	Cr6 (7196A) Lab Filtered	Cr6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Diss Metals (6010B) Lab Filtered Chromium	Total Metals (200.7) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
MW-27-085-093 SRP 3/8/06	3/7/06	1105	GW			X	Y			X	X	Y		ID MW-27-60-093 SRP 3/8/06 pH=2
MW-42-030-093	3/7/06	1240	GW			X	X			X	X	X		
MW-42-055-093	3/7/06	1330	GW			X	X			X	X	Y		
MW-42-085-093 063	3/7/06	1454	GW			Y	X			X	X	X		

ALERT! Level III QC

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Matt Ringler	CH2M Hill	3/7/06 1530
Signature (Received)			
Signature (Relinquished)	Fred Duran	EKE	3/7/06 2:45 pm
Signature (Received)	L. Shaberg	TTI	3/7/06 2030
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

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-093-Q1]

COC Number 06C078
TURNAROUND TIME 12 Days
DATE 3/7/06 PAGE 1 OF 1

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000, Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM
SAMPLERS (SIGNATURE)

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,Boron,Fe,Mn	Diss Metals (6010B) Field Filtered Title 22 Ca,Mg,K,Na,B,Fe,Mn	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Bromide,Chloride,Sulfate,Nitrate-N	Anions (300) Chloride,Sulfate, Nitrate-N	Ammonia (350.2)	Total Organic Carbon (415.2)	Silica (370.1)	NUMBER OF CONTAINERS	COMMENTS
13	~~MW-27-060-093~~ ~~MW-27-055-093~~	3/7/06	1105	GW	X			X		X	X	X	X		Please follow this corrected COC SPD 3/14/06
14	MW-42-070-093	3/7/06	1240	GW	X			X		X	X	X	X		
15	MW-42-055-093	3/7/06	1330	GW	X			X		X	X	X	X		
16	MW-42-065-093	3/7/06	1454	GW	X			X		X	X	X	X		

CHAIN OF CUSTODY SIGNATURE RECORD

	Signature	Printed Name	Company/ Agency	Date/ Time
Relinquished		matt Ringler	CH2M HILL	3/7/06 1454
Received				
Relinquished		FRED DOUGLAS	EXE	3/7/06 8:30 PM
Received		J. Shakerman	TTI	3/7/06 20:30
Relinquished		J. Shakerman	TTI	3/8/06 9:35
Received		Phil Hatcher	EMAX	3.8.06 9.35

Phil Hatcher 3.8.06 1345 3-8-06 1345

SAMPLE CONDITIONS
RECEIVED COOL ☐ WARM ☐ °F
CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-093-Q1]

COC Number 999
TURNAROUND TIME 10 Days
DATE _____ PAGE ___ OF ___

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM ___
SAMPLERS (SIGNATURE _____

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-27-085-093	3/7/06	1105	GW	X		
MW-42-030-093	3/7/06	1240	GW	X		
MW-42-055-093	3/7/06	1330	GW	X		
MW-42-065-093	3/7/06	1454	GW	X		

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Matt Ringler	CH2M Hill	3/7/06 1454
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

952573

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-093-Q1]

COC Number

TURNAROUND TIME 10 Days

DATE 3/8/06 PAGE 1 OF 1

COMPANY	CH2M HILL
PROJECT NAME	PG&E Topock
PHONE	(510) 251-2888 FAX (510) 622-7086
ADDRESS	155 Grand Ave Ste 1000, Oakland, CA 94612
P.O. NUMBER	338234.GM.02.00 TEAM #3126
SAMPLERS (SIGNATURE	

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (218.6) Lab Filtered	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Diss Metals (6010B) Lab Filtered Chromium	Total Metals (200.7) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
MW 39-050-093	3/8/06	1030	groundwater			✓	✓			✓	✓	✓	3	
MW-39-070-093	3/8/06	1250	groundwater		✓		✓			✓	✓	✓	3	
MW-39-080-093	3/8/06	1200	groundwater		✓		✓			✓	✓	✓	3	
MW-39-060-093	3/8/06	1345	groundwater			✓	✓			✓	✓	✓	3	
MW-97-093	3/8/06	1315	groundwater			✓	✓			✓	✓	✓	3	
													15	TOTAL

pH

For Sample Conditions See Form Attached

COPY

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Kathryn Brown	CH2M HILL	3/8/06 1630
Signature (Received)	Rafael Davila	T.L.-I	3-8-06 20:50
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

ALERT!!

Level III QC

FROM TRUESDAIL LABS 714 730 6462 (THU) MAR 9 2006 7:42/ST. 7:41/No. 6828828722 P 2

06C085

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-093-Q1]

COC Number

TURNAROUND TIME 12 Days

DATE 3/8/06 PAGE 1 OF 1

COMPANY CH2M HILL

PROJECT NAME PG&E Topock GWM

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 3

SAMPLERS (SIGNATURE

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,Boron,Fe,Mn	Diss Metals (6010B) Field Filtered Title 22 Ca,Mg,K,Na,B,Fe,Mn	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Bromide,Chloride,Sulfate,Nitrate-N	Anions (300) Chloride,Sulfate, Nitrate-N	Ammonia (350.2)	Total Organic Carbon (415.2)	Silica (370.1)	NUMBER OF CONTAINERS	COMMENTS
11	mw-39-050-093	3/8/06	1030	groundwater	✓			✓		✓	✓	✓	✓	5	
12	mw-39-060-093		1345		✓			✓		✓	✓	✓	✓	5	
13	mw-39-070-093		1250		✓			✓		✓	✓	✓	✓	5	
14	mw-39-080-093		1200		✓			✓		✓	✓	✓	✓	5	
15	mw-97-093		1315		✓			✓		✓	✓	✓	✓	5	
16	mw-23-093	3/8/06	1339		✓			✓		✓	✓	✓	✓	4	
														25	TOTAL + 4

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Kathryn Brown	CH2M HILL	3/8/06 1630
Signature (Received)	J Brown	TLI	3/8/06 2015
Signature (Relinquished)	L Shabenne	TLI	3/9/06 915
Signature (Received)	Phil Hatcher	EMAX	3-9-06 915
Signature (Relinquished)	Phil Hatcher	EMAX	3-9-06 1400
Signature (Received)	J. LUNA	EMAX	3-9-06 1400

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-093-Q1]

COC Number 999
TURNAROUND TIME 10 Days
DATE 3/8/06 PAGE 1 OF 1

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 3
SAMPLERS (SIGNATURE

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-39-050-093	3/8/06	1030	groundwater	✓	1	
MW-39-060-093		1345		✓	1	
MW-39-070-093		1250		✓	1	
MW-39-080-093		1200		✓	1	
MW-97-093	↓	1315	↓	✓	1	
					5	TOTAL

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Kathryn Brown	CH2M HILL	3/8/05 1630
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

952573

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-093-Q1]

COC Number

TURNAROUND TIME 10 Days

DATE 3/8/06 PAGE 1 OF 1

COMPANY CH2M HILL

PROJECT NAME PG&E Topock

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE) Matt Rijo

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (218.6) Lab Filtered	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Diss Metals (6010B) Lab Filtered Chromium	Total Metals (200.7) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
MW-33-150-093	3/8/06	925	GW			X	X			X	X	X	pH	For Sample Conditions See Form Attached
MW-33-090-093	3/8/06	1045	GW			X	X			X	X	X		
~~MW-33-090-093~~														
MW-34-055-093	3/8/06	1305	GW			X	X			X	X	X		
MW-34-100-093	3/8/06	1410	GW			X	X			X	X	X		
MW-941-093	3/8/06	1430	GW			X	X			X	X	X		

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) Matt Rijo	Matt Rijo	CH2M Hill	3/8/06 1530
Signature (Received) Rafael Davila	Rafael Davila	T.L.I	3-8-06 2050
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS: ALERT!! Level III QC

FROM TRUESDAIL LABS 714 730 6462 (THU) MAR 9 2006 7:43/ST. 7:41/No. 6828828722 P 3

B3/B4/B5 06C085

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-093-Q1]

COC Number

TURNAROUND TIME 12 Days

DATE 3/8/06 PAGE 1 OF 1

COMPANY CH2M HILL

PROJECT NAME PG&E Topock GWM

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM ____

SAMPLERS (SIGNATURE) [signature]

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved	Diss Metals (6010B) Field Filtered Ca,Mg,K,Na,Boron,Fe,Mn	Diss Metals (7470A) Field Filtered Hg,Ca,Mg,K,Na,B,Fe,Mn	Alkalinity (310.1) Field Filtered	Anions (300) Bromide,Chloride,Sulfate,Nitrate-N	Anions (300) Chloride,Sulfate, Nitrate-N	Ammonia (350.2)	Total Organic Carbon (415.2)	Silica (370.1)	NUMBER OF CONTAINERS	COMMENTS
1	MW-33-150-093	3/8/06	925	GW	X			X		X	X	X	X		
2	MW-33-090-093	3/8/06	1045	GW	X			X		X	X	X	X		
3	MW-34-055-093	3/8/06	1305	GW		X	X	X	X		X	X	X		
4	MW-34-100-093	3/8/06	1410	GW	X			X		X	X	X	X		
5	MW-94-093	3/8/06	1430	GW	X			X		X	X	X	X		

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) [signature]	Matt Rinja	CH2M Hill	3/8/06 1530
Signature (Received) [signature]	J Brown	TLI	3/8/06 20150
Signature (Relinquished) [signature]	L. Shakesmire	TLI	3/9/06 915
Signature (Received) [signature]	Phil Hatch	EMAX	3906 915
Signature (Relinquished) [signature]	Phil Hatch	EMAX	3906 1400
Signature (Received) [signature]	J-LUNA	EMAX	3-9-06 1400

SAMPLE CONDITIONS 3.4 °C

RECEIVED COOL ☑ WARM ☐ 3.0 °C

CUSTODY SEALED YES ☐ NO ☐ 3.5 °C

SPECIAL REQUIREMENTS:

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-093-Q1]

COC Number 999
TURNAROUND TIME 10 Days
DATE 3/8/06 PAGE 1 OF 1

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM ___
SAMPLERS (SIGNATURE) Matt Ringler

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-33-150-093	~~3/8/06~~ 3/8/06	925	GW	X		
MW-33-090-093	3/8/06	1045	GW	X		
MW-34-055-093	3/8/06	1305	GW	X		
MW-34-100-093	3/8/06	1430	GW	X		

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) Matt Ringler	Matt Ringler	CH2M Hill	3/8/06 1530
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

952573

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-093-Q1]

COC Number

TURNAROUND TIME 10 Days

DATE 8 March 06 PAGE 1 OF 1

COMPANY CH2M HILL

PROJECT NAME PG&E Topock

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (218.6) Lab Filtered	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Diss Metals (6010B) Lab Filtered Chromium	Total Metals (200.7) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS
MW-40S-093	8 March	1058	1-250 1-500 1-L poly			1	1			1	1	1	3
MW-40D-093	8 March	1207	1250 1-500 1-L poly			1	1			1	1	1	3
MW-26-093	8 March	1308	1250 1-500 1-L poly		1		1			1	1	1	3
MW-23-093	8 March	1339	Same			1	1			1	1	1	3
MW-13-093	8 March	1500	Same			1	1			1	1	1	3
MW-91-093	8 March	1500	Same			1	1			1	1	1	3

pH 2

COMMENTS

For Sample Conditions See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Richy L Rios	CH2MHill	8 March 06 1513
Signature (Received)	Rafael Davila	T.L.I.	3-8-06 2050
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

ALERT!!

Level III QC

FROM TRUESDAIL LABS 714 730 6462 (THU) MAR 9 2006 7:43/ST. 7:41/No. 6828828722 P 4

06C085

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-093-Q1]

COC Number

TURNAROUND TIME 12 Days

DATE 8 March 06 PAGE 1 OF 1

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000, Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE)

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,Boron,Fe,Mn	Diss Metals (6010B) Field Filtered Title 22 Ca,Mg,K,Na,B,Fe,Mn	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Bromide,Chloride,Sulfate,Nitrate-N	Anions (300) Chloride,Sulfate, Nitrate-N	Ammonia (350.2)	Total Organic Carbon (415.2)	Silica (370.1)	NUMBER OF CONTAINERS	COMMENTS
6	MW-40S-093	8 March	1058	2-250 1-500 2L Poly	1			1		1	1	1	2	5	
7	MW-40D-093	8 March	1207	2-250 1-500 2L Poly	1			1		1	1	1	2	5	
8	MW-26-093	8 March	1308	2-250 1-500 2 1L Poly	1			1	1		1	1	2	5	
9	MW-13-093	8 March	1500	Same	1			1		1	1	1	1	4	
10	MW-91-093	8 March	1500	Same	1			1		1	1	1	2	5	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Richy L Ricks	CH2M HILL	8 March 06 1513
Signature (Received)	J Brown	TLI	3/8/06 2050
Signature (Relinquished)	L. Shakeenda	TLI	3/9/06 0815
Signature (Received)	Phil Hatcher	EMAX	3-9-06 915
Signature (Relinquished)	Phil Hatcher	EMAX	3906 1400
Signature (Received)	JON LUNA	EMAX	3-9-06 1400

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-093-Q1]

COC Number 999
TURNAROUND TIME 10 Days
DATE 8 March 06 PAGE 1 OF 1

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-40S-093	8 March	1058	250 ML PLY	1	1	
MW-40D-093	8 March	1207	250ML PLY	1	1	
MW-26-093	8 March	1308	250 ML PLY	1	1	
MW-23-093	8 March	1339	Same	1	1	
MW-13-093	8 March	1500	Same	1	1	
MW-91-093	8 March	1500	Same	1	1	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Richy	CH2MHill	8 March 06 1513
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

952615 LEDA

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-093-Q1]

COC Number

TURNAROUND TIME 10 Days

DATE 3/9/06 PAGE 1 OF 1

COMPANY CH2M HILL

PROJECT NAME PG&E Topock

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 21

SAMPLERS (SIGNATURE) [signature]

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Cr6 (218.6) Lab Filtered	Cr6 (7196A) Lab Filtered	Cr6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Diss Metals (6010B) Lab Filtered Chromium	Total Metals (200.7) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)					NUMBER OF CONTAINERS	COMMENTS
-1	OW-03D-093	3/9/06	0905	groundwater			✓	✓			✓	✓	✓					3	ALERT!! Level III QC
-2	OW-03M-093	3/9/06	0945	groundwater			✓	✓			✓	✓	✓					3	
-3	OW-03S-093	3/9/06	1012	groundwater			✓	✓			✓	✓	✓					3	
-4	MW-17-093	3/9/06	1050	groundwater			✓	✓			✓	✓	✓					3	
-5	MW-18-093	3/9/06	1152	groundwater			✓	✓			✓	✓	✓					3	pH=2
-6	MW-92-093	3/9/06	1140	groundwater			✓	✓			✓	✓	✓					3	
-7	MW-14-093	3/9/06	1227	groundwater			✓	✓			✓	✓	✓					3	
-8	MW-25-093	3/9/06	1304	groundwater		✓		✓			✓	✓	✓					3	
-9	MW-19-093	3/9/06	1418	groundwater		✓		✓			✓	✓	✓					3	Total: 27

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) [signature]	Kathryn Brown	CH2M HILL	3/9/06 1530
Signature (Received) [signature]	J Brown	TLI	3/9/06 2015
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

For Sample Conditions See Form Attached

FROM TRUESDAIL LABS 714 730 6462 (FRI) MAR 10 2006 8:38/ST. 8:37/No. 6828828735 P 2

06C102

COC Number

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

K2/K4

CHAIN OF CUSTODY RECORD

[2006-GMP-093-Q1]

TURNAROUND TIME 12 Days

DATE 3/9/06 PAGE 1 OF 2

COMPANY	CH2M HILL
PROJECT NAME	PG&E Topock GWM
PHONE	(510) 251-2888 FAX (510) 622-7086
ADDRESS	155 Grand Ave Ste 1000, Oakland, CA 94612
P.O. NUMBER	338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE	

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved	Diss Metals (6010B) Field Filtered Ca,Mg,K,Na,Boron,Fe,Mn	Diss Metals (7470A) Field Filtered Hg,Fe,Mn	Alkalinity (310.1)	Anions (300) Bromide,Chloride,Sulfate,Nitrate-N	Anions (300) Chloride,Sulfate, Nitrate-N	Ammonia (350.2)	Total Organic Carbon (415.2)	Silica (370.1)	NUMBER OF CONTAINERS	COMMENTS
1	OW-03D-093	3/9/06	0905	groundwater	✓			✓	(20)	✓	✓	✓	✓	5	
2	OW-03M-093	3/9/06	0945	groundwater	✓			✓		✓	✓	✓	✓	5	
3	OW-03S-093	3/9/06	1012	groundwater	✓			✓		✓	✓	✓	✓	5	
4	MW-17-093	3/9/06	1050	groundwater	✓			✓		✓	✓	✓	✓	5	
5	MW-18-093	3/9/06	1152	groundwater	✓			✓		✓	✓	✓	✓	5	
6	MW-92-093	3/9/06	1140	groundwater	✓			✓		✓	✓	✓	✓	5	Please follow the corrected COC SPD 3/14/06
7	MW-14-093	3/9/06	1227	groundwater	✓			✓		✓	✓	✓	✓	5	
8	MW-25-093	3/9/06	1304	groundwater		✓	✓	✓	X	NO	✓	✓	✓	7	
9	MW-19-093	3/9/06	1418	groundwater	✓			✓		✓	✓	✓	✓	4	(Total: 46)

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Kathryn Brown	CH2M HILL	3/9/06 1530
Signature (Received)	J Brown	TLI	3/10/06 1011
Signature (Relinquished)	Duane Bleeth	TLI	3/10/06 16:27
Signature (Received)	Phil Hatcher	EMAX	3 10 06 1030
Signature (Relinquished)	Phil Hatch	EMAX	3 10 06 2500
Signature (Received)	INDRA PATEL	EMAX	3-10-06 1500

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-093-Q1]

COC Number 999
TURNAROUND TIME 10 Days KLB
DATE 3/9/06 PAGE 1 OF 2

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
OW-03D-093	3/9/06	0905	groundwater	✓	1	
OW-03M-093	3/9/06	0945	groundwater	✓	1	
OW-03S-093	3/9/06	1012	groundwater	✓	1	
MW-17-093	3/9/06	1050	groundwater	✓	1	
MW-18-093	3/9/06	1152	groundwater	✓	1	
MW-92-093	3/9/06	1140	groundwater	✓	1	
MW-14-093	3/9/06	1227	groundwater	✓	1	
MW-25-093	3/9/06	1304	groundwater	✓	1	
MW-19-093	3/9/06	1410	groundwater	✓	1	Total: 9

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Kathryn Brown	CH2M HILL	3/9/06 1630
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

952615

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-093-Q1]

COC Number

TURNAROUND TIME 10 Days

DATE 3/9/06 PAGE 1 OF 1

COMPANY: CH2M HILL
PROJECT NAME: PG&E Topock
PHONE: (510) 251-2888 FAX: (510) 622-7086
ADDRESS: 155 Grand Ave Ste 1000, Oakland, CA 94612
P.O. NUMBER: 338234.GM.02.00 TEAM: 2
SAMPLERS (SIGNATURE): L McElliott

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (218.6) Lab Filtered	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Diss Metals (6010B) Lab Filtered Chromium	Total Metals (200.7) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	6010B CrT Lab Filter					NUMBER OF CONTAINERS	COMMENTS
10	MW-28-025-093	3/9/06	0930	groundwater			X	X			X	X	X						3	
11	MW-34-080-093	3/9/06	1100	groundwater			X	X			X	X	X						3	pH=2
12	MW-30-050-093	3/9/06	1320	groundwater			X	X			X	X	X						3	
13	MW-33-040-093	3/9/06	930	GW			X				X	X	X	X					2	pH=7

ALERT!!
Level III QC

CHAIN OF CUSTODY SIGNATURE RECORD

	Signature	Printed Name	Company/Agency	Date/Time
Signature (Relinquished)	L McElliott	Laura Elliott	CH2M Hill	3/9/06 1530
Signature (Received)	J Brown	J Brown	TLI	3/9/06 2015
Signature (Relinquished)				
Signature (Received)				
Signature (Relinquished)				
Signature (Received)				

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

For Sample Conditions See Form Attached

FROM TRUESDAIL LABS 714 730 6462 (FRI)MAR 10 2006 8:38/ST. 8:37/No. 6828828735 P 3

0GC102

COC Number

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-093-Q1]

TURNAROUND TIME 12 Days

DATE 3/9/06 PAGE 1 OF 1

COMPANY CH2M HILL

PROJECT NAME PG&E Topock GWM

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 2

SAMPLERS (SIGNATURE) L MElliott

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,Boron,Fe,Mn	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,B,Fe,Mn	Diss Metals (1470A) Field Filtered Time Z4	Alkalinity (310.1)	Anions (300) Bromide,Chloride,Sulfate,Nitrate-N	Anions (300) Chloride,Sulfate,Nitrate-N	Ammonia (350.2)	Total Organic Carbon (415.2)	Silica (370.1)	6010B Lab Filter**					NUMBER OF CONTAINERS	COMMENTS
10	MW-28-025-093	3/9/06	0930	groundwater	X			X	X		X	X	X						4	
11	MW-34-080-093	3/9/06	1100	groundwater		X	X	X	X		X	X	X						5	
12	MW-30-050-093	3/9/06	1320	groundwater	X			X	X		X	X	X						4	
13	MW-33-040-093	3/9/06	930	GW				X	No	X	X	X	X	X					4	** 6010B Lab Filtered ~~Ca, Mg, K, Na, B, Fe, Mn~~

Please follw this corrected COC SPD 3/14/06

CHAIN OF CUSTODY SIGNATURE RECORD

	Signature	Printed Name	Company/ Agency	Date/ Time
Relinquished	L MElliott	Laura Elliott	CH2M Hill	3/9/06 1530
Received	J Brown	J Brown	TLI	3/9/06 2015
Relinquished	Sharon Blotter	Sharon Blotter	TLI	3/10/06 10:27
Received	Phil Hatcher	Phil Hatcher	EMAX	3 10 06 1030
Relinquished	Phil Hatcher	Phil Hatcher	EMAX	3 10 06 1500
Received	INDRA PATEL	INDRA PATEL	EMAX	3-10-06 1520

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-093-Q1]

COC Number 999
TURNAROUND TIME 10 Days
DATE 3/9/06 PAGE 1 OF 1

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 - TEAM ___
SAMPLERS (SIGNATURE) LMElliott

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-28-025-093	3/9/06	0930	groundwater	X	1	
MW-34-080-093	3/9/06	1160	groundwater	X	1	
MW-30-050-093	3/9/06	1320	groundwater	X	1	
MW-33-040-093	3/9/03	930	GW	X	1	

CHAIN OF CUSTODY SIGNATURE RECORD

	Signature	Printed Name	Company/ Agency	Date/ Time
Relinquished	LMElliott	Laura Elliott	CH2M Hill	3/9/06 1530
Received				
Relinquished				
Received				
Relinquished				
Received				

SAMPLE CONDITIONS
RECEIVED COOL ☐ WARM ☐ °F
CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

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-093-Q1]

952647

COC Number

TURNAROUND TIME 10 Days

DATE 3/10/06 PAGE 1 OF 1

Rec'd 03/10/06
for 952647

COMPANY	CH2M HILL
PROJECT NAME	PG&E Topock
PHONE	(510) 251-2888 FAX (510) 622-7086
ADDRESS	155 Grand Ave Ste 1000, Oakland, CA 94612
P.O. NUMBER	338234.GM.02.00 TEAM 2
SAMPLERS (SIGNATURE	L McElhatt

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Cr6 (218.6) Lab Filtered	Cr6 (7196A) Lab Filtered	Cr6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Diss Metals (6010B) Lab Filtered Chromium	Total Metals (200.7) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
MW-43-025-093	3/10/06	0900	groundwater			X	X			X	X	X	3	
MW-43-075-093	3/10/06	0930	groundwater			X	X			X	X	X	3	
MW-43-090-093	3/10/06	1015	groundwater			X	X			X	X	X	3	
MW-32-020-093	3/10/06	1055	Groundwater			X	X			X	X	X	3	pH=2
MW-32-035-093	3/10/06	1145	groundwater			X	X			X	X	X	3	
MW-35-135-093	3/10/06	12:22	GW			X	X			X	X	X	3	
~~MW-35-060-093~~	~~3/10/06~~		~~GW~~ MV											
MW-95-093	3/10/06	13:45	GW			X	X			X	X	X	3	pH=2

ALERT!! Level II QC

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) L McElhatt	Laura Elliott	CH2M Hill	3/10/06 1530
Signature (Received) L Shaleumm	L Shaleumm	TCI	3/10/06 20:20
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

For Sample Conditions See Form Attached

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

FROM TRUESDAIL LABS 714 730 6462 (MON) MAR 13 2006 7:58/ST. 7:57/No. 6828828741 P 2

06C103

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

H2

CHAIN OF CUSTODY RECORD

[2006-GMP-093-Q1]

COC Number

TURNAROUND TIME 12 Days

DATE 3/10/06 PAGE 1 OF 1

COMPANY CH2M HILL

PROJECT NAME PG&E Topock GWM

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000, Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 2

SAMPLERS (SIGNATURE) L Mallett

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,Boron,Fe,Mn	Diss Metals (6010B) Field Filtered Title 22, Ca,Mg,K,Na,B,Fe,Mn	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Bromide,Chloride,Sulfate,Nitrate-N	Anions (300) Chloride,Sulfate, Nitrate-N	Ammonia (350.2)	Total Organic Carbon (415.2)	Silica (370.1)	NUMBER OF CONTAINERS	COMMENTS
1	MW-43-025-093	3/10/06	0900	Gw groundwater	X			X		X	X	X	X	5	
2	MW-43-075-093	3/10/06	0930	groundwater	X			X		X	X	X	X	5	
3	MW-43-090-093	3/10/06	1015	groundwater	X			X		X	X	X	X	5	
4	MW-32-020-093	3/10/06	1045	groundwater	X			X	X		X	X	X	5	
5	MW-32-035-093	3/10/06	1145	groundwater	X			X	X		X	X	X	5	
6	MW-35-135-093	3/10/06	1322	GW	X			X		X	X	X	X	5	
	~~MW-35-060-093~~	~~3/10/06~~		~~GW~~											
7	MW-95-093	3/10/06	1345	GW	X			X		X	X	X	X	5	

CHAIN OF CUSTODY SIGNATURE RECORD

	Signature	Printed Name	Company/ Agency	Date/ Time
Relinquished	L Mallett	Laura Elliott	CH2M Hill	3/10/06 1530
Received	L Shalenne	L Shalenne	TL	3/10/06 20
Relinquished	L Shalenne	L Shalenne	TL	3/10/06 20
Received		Joe Kelbley	EMAX	3/10/06 2040
Relinquished		Joe Kelbley	EMAX	3/10/06 2135
Received		JON LUNA	EMAX	3/10/06 2135

SAMPLE CONDITIONS

RECEIVED COOL ☑ WARM ☐ 3.0 °C, 2.7 °C, 3.2 °C

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

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-093-Q1]

952647

COC Number

TURNAROUND TIME 10 Days

DATE 3/10/06 PAGE 1 OF

COMPANY	CH2M HILL
PROJECT NAME	PG&E Topock
PHONE	(510) 251-2888 FAX (510) 622-7086
ADDRESS	155 Grand Ave Ste 1000, Oakland, CA 94612
P.O. NUMBER	338234.GM.02.00 TEAM X1
SAMPLERS (SIGNATURE	

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Cr6 (218.6) Lab Filtered	Cr6 (7196A) Lab Filtered	Cr6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Diss Metals (6010B) Lab Filtered Chromium	Total Metals (200.7) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
MW-380-093	3/10/06	0905	groundwater		✓		✓			✓	✓	✓	3	
MW-385-093	3/10/06	0931	groundwater		✓		✓			✓	✓	✓	3	
MW-20-100-093	3/10/06	1105	"		✓		✓			✓	✓	✓	3	
MW-20-130-093	3/10/06	1245	"		✓		✓			✓	✓	✓	3	
MW-20-070-093	3/10/06	1507	"		✓		✓			✓	✓	✓	3	

pH=2

ALERT!! Level III QC

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Kathryn Brown	CH2M Hill	3/10/06 1530
Signature (Received)	Shaheen	TU	3/10/06 20
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

For Sample Conditions See Form Attached

FROM TRUESDAIL LABS 714 730 6462 (MON) MAR 13 2006 7:58/ST. 7:57/No. 6828828741 P 3

06C103

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-093-Q1]

COC Number

TURNAROUND TIME 12 Days

DATE 3/10/06 PAGE 1 OF

COMPANY CH2M HILL

PROJECT NAME PG&E Topock GWM

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,Boron,Fe,Mn	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,B,Fe,Mn	Diss Metals (7470A) Field Filtered Hg	Alkalinity (310.1) Field Filtered	Anions (300) Bromide,Chloride,Sulfate,Nitrate-N	Anions (300) Chloride,Sulfate,Nitrate-N	Ammonia (350.2)	Total Organic Carbon (415.2)	Silica (370.1)	NUMBER OF CONTAINERS	COMMENTS
8	MW-38A-093	3/10/06	0905	groundwater	✓			✓		✓	✓	✓	✓	5	Please follwo this Corrected COC SPD 3/14/06
9	MW-38S-093	3/10/06	0931	"	✓			✓		✓	✓	✓	✓	5	
10	MW-20-100-093	3/10/06	1105	"	✓			✓	X	No	✓	✓	✓	5	
11	MW-20-130-093	3/10/06	1245	"		✓	✓	✓	✓	NO	✓	✓	✓	7	(not Anion (300) Cl, SO4, NO3-N
12	MW-20-070-093	3/10/06	1307	"		✓	✓	✓	✓		✓	✓	✓	7	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Kathryn Brown	CH2M HILL	3/10/06 1530
Signature (Received) L. Shakespeare	L. Shakespeare	TTI	3/10/06 20
Signature (Relinquished) L. Shakespeare	L. Shakespeare	TTI	3/10/06 2040
Signature (Received)	Joe Kelbley	EMAX	3/10/06 2040
Signature (Relinquished)	Joe Kelbley	EMAX	3/10/06 2135
Signature (Received) J. LUNA		EMAX	3/10/06 2135

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

952698

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-093-Q1]

COC Number

TURNAROUND TIME 10 Days

DATE 13 March 06 PAGE 2 OF 2

COMPANY CH2M HILL

PROJECT NAME PG&E Topock

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 3

SAMPLERS (SIGNATURE

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (218.6) Lab Filtered	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Diss Metals (6010B) Lab Filtered Chromium	Total Metals (200.7) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
MW-37D-093	13 March	1142	—		1		1			1	1	1	3	pH≥2
MW-37S-093	13 March	1245	—			1	1			1	1	1	3	
MW-41M-093	13 March	1428	—			1	1			1	1	1	3	
MW-41S-093	13 March	1500	—			1	1			1	1	1	3	

For Sample Conditions See Form Attached

ALERT!!
Level III QC

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Richy L Rios	CH2MHill	13 March 06 1522
Signature (Received)	J Brown	TLI	3/13/06 2010
Signature (Relinquished)	Fred Dwight	EVE	3/13/06 2103
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

FROM TRUESDAIL LABS 714 730 6462 (TUE) MAR 14 2006 8:20/ST. 8:19/No. 6828828747 P 1

06C125

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-093-Q1]

COC Number

TURNAROUND TIME 12 Days

DATE 13March06 PAGE 2 OF 2

COMPANY CH2M HILL

PROJECT NAME PG&E Topock GWM

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,Boron,Fe,Mn	Diss Metals (6010B) Field Filtered Title 22 Ca,Mg,K,Na,B,Fe,Mn	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Bromide,Chloride,Sulfate,Nitrate-N	Anions (300) Chloride,Sulfate, Nitrate-N	Ammonia (350.2)	Total Organic Carbon (415.2)	Silica (370.1)	NUMBER OF CONTAINERS	COMMENTS
4	MW-37D-093	13March	1142	—		1	2	1		1	1	1	2	7	
5	MW-37S-093	13March	1245	—	1			1		1	1	1	2	5	
6	MW-41M-093	13March	1428	—	1			1		1	1	1	2	5	
7	MW-41S-093	13March	1500	—	1			1		1	1	1	2	5	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Richard Ricks	CH2MHill	Date/ 13 March 06 Time 1520
Signature (Received)	J Brown	TLI	Date/ 3/13/06 Time 20:00
Signature (Relinquished)	Ted Douglas	EVE	Date/ 3/13/06 Time 805
Signature (Received)			Date/ Time
Signature (Relinquished)	J Brown	TLI	Date/ 3/14/06 Time 9:54
Signature (Received)	Phil Hatch	EMAX	Date/ 3/14/06 Time 954

3-14-06 1510

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☑ NO ☐

SPECIAL REQUIREMENTS:

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-093-Q1]

COC Number 999
TURNAROUND TIME 10 Days
DATE 13 March 06 PAGE 2 OF 2

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-37D-093	13March	1142	250ML PLY	1	1	
MW-37S-093	13March	1245	250ML PLY	1	1	
MW-41M-093	13March	1428	250ML PLY	1	1	
MW-41S-093	13March	1500	250ML PLY	1	1	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Richard Rivas	CH2M Hill	13 March 06 1521
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

952698

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-093-Q1]

COC Number

TURNAROUND TIME 10 Days

DATE 3/13/06 PAGE 1 OF 2

COMPANY CH2M HILL

PROJECT NAME PG&E Topock

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 3

SAMPLERS (SIGNATURE)

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (218.6) Lab Filtered	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Diss Metals (6010B) Lab Filtered Chromium	Total Metals (200.7) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	1-(1000) mL (P)	NUMBER OF CONTAINERS	COMMENTS
MW-30-050-093	3/13/06	1220	GW			X	X			X	X	X		3	pH<2
MW-39-100-093	3/13/06	1345	GW	X			X			X	X	X		3	
MW-36-100-093	3/13/06	1445	GW	X			X			X	X	X		3	

For Sample Conditions See Form Attached

ALERT!!
Level III QC

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Richard Rice	CH2MHill	13 March 1518
Signature (Received)	J Brown	TTI	3/13/06 2010
Signature (Relinquished)	FRED DOUGLAS	EXE	3/13/06 2025
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

FROM TRUESDAIL LABS 714 730 6462 (TUE) MAR 14 2006 8:20/ST. 8:19/No. 6828828747 P 2

D5

06C125

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-093-Q1]

COC Number

TURNAROUND TIME 12 Days

DATE 3/13/06 PAGE 1 OF 1

COMPANY CH2M HILL

PROJECT NAME PG&E Topock GWM

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000, Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM

SAMPLERS (SIGNATURE)

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,Boron,Fe,Mn	Diss Metals (6010B) Field Filtered Title 22 Ca,Mg,K,Na,B,Fe,Mn	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Bromide,Chloride,Sulfate,Nitrate-N SPD	Anions (300) Chloride,Sulfate, Nitrate-N	Ammonia (350.2)	Total Organic Carbon (415.2) SPD	Silica (370.1)						NUMBER OF CONTAINERS	COMMENTS
1	MW-30-030-093	3/13/06	1220	GW	X			X	X		X	X	X						5	Please follow the corrections spd 3/14/06
2	MW-39-100-093	3/13/06	~~1245~~ 1250	GW	X			X		X	X	X	X						5	
3	MW-36-100-093	3/13/06	1445	GW	X			X		X	X	X	X						4	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Richy C Rios	CH2MHill	13 March 06 1529
Signature (Received)	J Brown	TLI	3/13/06 2040
Signature (Relinquished)	Fred Douglas	EVE	3/13/06 2105
Signature (Received)			
Signature (Relinquished)	J Brown	TLI	3/14/06 954
Signature (Received)	Phil Hatch	EMAX	3/14/06 954

Phil Hatch 3.14.06 1510

SAMPLE CONDITIONS

RECEIVED COOL ☒ WARM ☐ 3.7 °C 3.3 °C

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-093-Q1]

COC Number 999
TURNAROUND TIME 10 Days
DATE 3/15/06 PAGE 1 OF 1

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM ___
SAMPLERS (SIGNATURE)

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-30-030-093	3/13/06	1220	GW	X	1	
MW-39-100-093	3/13/06	1345	GW	X	1	
MW-36-100-093	3/13/06	1445	GW	X	1	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Richard Rices	CH2MHill	13 March 06 1517
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

952791

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-093-Q1]

952791

COC Number

TURNAROUND TIME 10 Days

DATE 14 March 06 PAGE 1 OF 1

COMPANY	CH2M HILL
PROJECT NAME	PG&E Topock
PHONE	(510) 251-2888 FAX (510) 622-7086
ADDRESS	155 Grand Ave Ste 1000, Oakland, CA 94612
P.O. NUMBER	338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE)	

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (218.6) Lab Filtered	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Diss Metals (6010B) Lab Filtered Chromium	Total Metals (200.7) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS
MW-46-205-001	14 March	1103				1	1			1	1	1	3
MW-46-175-001	14 March	1232				1	1			1	1	1	3
MW-44-116	14 March	1326				1	1			1	1	1	3
MW-35-060-093	14 March	1416				1	1			1	1	1	3

COMMENTS

Rec'd 03/15/06 0b 952791

pH=2

ALERT!! Level III QC

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Richyl Rios	CH2M	14 March 06 1540
Signature (Received)	L. Shakeshaft	TT	3/14/06 2014
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☑ NO ☐

SPECIAL REQUIREMENTS:

FROM TRUESDAIL LABS 714 730 6462 (WED)MAR 15 2006 16:10/ST. 16:09/No. 6828828765 P 2

B10

06C142

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-093-Q1]

COC Number

TURNAROUND TIME 12 Days

DATE 14March06 PAGE 1 OF

COMPANY CH2M HILL

PROJECT NAME PG&E Topock GWM

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE) RCR

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,Boron,Fe,Mn	Diss Metals (6010B) Field Filtered Title 22 Ca,Mg,K,Na,B,Fe,Mn	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Bromide,Chloride,Sulfate,Nitrate-N	Anions (300) Chloride,Sulfate, Nitrate-N	Ammonia (350.2)	Total Organic Carbon (415.2)	Silica (370.1)	NUMBER OF CONTAINERS	COMMENTS
~~MW-44-205-001~~	~~14March~~	~~1103~~		1	/	/	1	/	1	1	1	2	5	
~~MW-44-175-001~~	~~14March~~	~~1232~~		1	/	/	1	/	1	1	1	2	5	
~~MW-44-116-001~~	~~14March~~	~~1326~~		1	/	/	1	/	1	1	1	2	4	
MW-35-060-093	14March	1416	—	1	/	/	1	/	1	1	1	2	5	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) RCR	Richy L Rivas	CH2M	14March06 1542
Signature (Received) L. Shakeeun	L. Shakeeun	TT	3/14/06 2015
Signature (Relinquished) L. Shakeeun	L. Shakeeun	TT	3/15/06 950
Signature (Received) Phil Hatch	Phil Hatch	EMAX	31506 950
Signature (Relinquished) Phil Hatch	Phil Hatch	EMAX	31506 1530
Signature (Received) J. Luna	J. Luna	EMAX	3-15-06 1530

SAMPLE CONDITIONS

RECEIVED COOL ☑ WARM ☐ 3.2°C

CUSTODY SEALED YES ☑ NO ☐

SPECIAL REQUIREMENTS:

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-093-Q1]

COC Number 999
TURNAROUND TIME 10 Days
DATE 14 March 06 PAGE 1 OF 2

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
~~MW-46-175-001~~	14 March	1103	—	1	1	
MW-46-175-001	14 March	1232	—	1	1	
MW-44-116	14 March	1326	—	1	1	
MW-35-060-093	14 March	1416	—	1	1	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature Relinquished)	Richy L Ricks	CH2M	14 March 06 1538
Signature Received)			
Signature Relinquished)			
Signature Received)			
Signature Relinquished)			
Signature Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☑ NO ☐

SPECIAL REQUIREMENTS:

952803

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-093-Q1]

COC Number

TURNAROUND TIME 10 Days

DATE 15March06 PAGE 1 OF 1

COMPANY	CH2M HILL
PROJECT NAME	PG&E Topock
PHONE	(510) 251-2888 FAX (510) 622-7086
ADDRESS	155 Grand Ave Ste 1000, Oakland, CA 94612
P.O. NUMBER	338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE)	

ALERT!! Level III QC

Rec'd 03/15/06

952803

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (218.6) Lab Filtered	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Diss Metals (6010B) Lab Filtered Chromium	Total Metals (200.7) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER	COMMENTS
-1	MW-22-093	15March	0914	—		1		1			1	1	1	3	pH=2
-2	MW-31-135-093	15March	1024	—		1		1			1	1	1	3	
-3	MW-41D-093	15March	1210	—		1		1			1	1	1	3	
-4	TW-025-093	15March	1435	—		1		1			1	1	1	3	
-5	TW-825-093	15March	1440	—		1		1			1	1	1	3	
-6	MW-31-060-093	15March	1510	—		1		1			1	1	1	3	
-7	MW-93-093	15March	1530	—		1		1			1	1	1	3	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Rich Rios	CH2M	15March 1553
Signature (Received) M. L.	M. Lagunas	EXECUTIVE	15/06 1553
Signature (Relinquished) M. L.	M. Lagunas	EXECUTIVE	3/15/06 2030
Signature (Received) J Brown	J Brown	TLI	3/15/06 20:40
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☑ NO ☐

SPECIAL REQUIREMENTS:

For Sample Conditions See Form Attached

FROM TRUESDAIL LABS 714 730 6462 (THU) MAR 16 2006 8:39/ST. 8:37/No. 6828828769 P 6

06C1587

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-093-Q1]

COC Number

TURNAROUND TIME 12 Days

DATE 15 March 06 PAGE 1 OF 1

COMPANY CH2M HILL

PROJECT NAME PG&E Topock GWM

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000, Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM

SAMPLERS (SIGNATURE)

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,Boron,Fe,Mn	Diss Metals (6010B) Field Filtered Title 22 Ca,Mg,K,Na,B,Fe,Mn	Diss Metals (7470A) Field Filtered Hg	Alkalinity (310.1)	Anions (300) Bromide,Chloride,Sulfate,Nitrate-N	Anions (300) Chloride,Sulfate, Nitrate-N	Ammonia (350.2)	Total Organic Carbon (415.2)	Silica (370.1)	NUMBER OF CONTAINERS	COMMENTS
1	MW-22-093	15 March	0941	—	1			1		1	1	1	2	5	
2	MW-31-135-093	15 March	1024	—	1			1		1	1	1	1	4	
3	MW-41D-093	15 March	1210	—	1			1		1	1	1	1	4	
4	TW-02S-093	15 March	1425	—	1			1		1	1	1	1	4	
5	TW-02D-093	15 March	1440	—	1			1		1	1	1	1	4	
6	MW-31-060-093	15 March	1510	—	1			1	1		1	1	1	4	
7	MW-93-093	15 March	1530	—	1			1	1		1	1	1	4	

CHAIN OF CUSTODY SIGNATURE RECORD

	Signature	Printed Name	Company/ Agency	Date/ Time
Relinquished		Rich Ricks	CH2M	15 March 1552
Received	M.L.	M Lagunas	EXECUTIVE	3/15/06 1552
Relinquished	M.L.	M Lagunas	EXECUTIVE	3/15/06 2038
Received	J Braun	J Braun	TU	3/15/06 2040
Relinquished	J Braun	J Braun	TU	3/16/06 943
Received	Phil Hatcher 3/16/06 1600	Phil Hatcher	EMAX	3/16/06 945

SAMPLE CONDITIONS

RECEIVED COOL ☑ WARM ☐ °F

CUSTODY SEALED YES ☑ NO ☐

SPECIAL REQUIREMENTS:

CHAIN OF CUSTODY RECORD

[2006-GMP-093-Q1]

COC Number 999

TURNAROUND TIME 10 Days

DATE 15 March 06 PAGE 1 OF 1

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

COMPANY CH2M HILL

PROJECT NAME PG&E Topock GWM

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM ___

SAMPLERS (SIGNATURE

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-22-093	15 March	0924	—	1	1	
MW-31-135-093	15 March	1024	—	1	1	
MW-410-093	15 March	1210	—	1	1	
TW-025-093	15 March	1425	—	1	1	
TW-020-093	15 March	1440	—	1	1	
MW-31-060-093	15 March	1510	—	1	1	
MW-93-093	15 March	1530	—	1		

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Rich Ricks	CH2M	15 Mar 1552
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☑ NO ☐

SPECIAL REQUIREMENTS:

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-093-Q1] 952853

COC Number

TURNAROUND TIME 10 Days

DATE 16 March 06 PAGE 1 OF 1

COMPANY CH2M HILL

PROJECT NAME PG&E Topock

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE)

Rec'd 03/16/06
sloc 952859

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (218.6) Lab Filtered	CR6 (7196) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Diss Metals (6010B) Lab Filtered Chromium	Total Metals (200.7) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINER	COMMENTS
MW-24BR-093	16 March	0905	~			1	1			1	1	1	3	pH=2

ALERT!! Level III QC

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name Rich Ricks	Company/ Agency CHAMMH	Date/ Time 16 March 06 0936	
Signature (Received) L. Trubenstein	Printed Name L. Trubenstein	Company/ Agency TLI	Date/ Time 3/16/06 2015	
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☑ NO ☐

SPECIAL REQUIREMENTS:

For Sample Conditions See Form Attached

FROM TRUESDAIL LABS FAX NO. 8626026174 P. 1
TRI/MAR 17 2006 1.08/31. 1.017/NO. 0402

G4

06C171

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-093-Q1]

COC Number

TURNAROUND TIME 12 Days

DATE 16 March 06 PAGE 1 OF 1

COMPANY	CH2M HILL
PROJECT NAME	PG&E Topock GWM
PHONE	(510) 251-2888 FAX (510) 622-7086
ADDRESS	155 Grand Ave Ste 1000, Oakland, CA 94612
P.O. NUMBER	338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE	

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,Boron,Fe,Mn	Diss Metals (6010B) Field Filtered Title 22 Ca,Mg,K,Na,B,Fe,Mn	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Bromide,Chloride,Sulfate,Nitrate-N	Anions (300) Chloride,Sulfate, Nitrate-N	Ammonia (350.2)	Total Organic Carbon (415.2)	Silica (370.1)	NUMBER OF CONTAINERS	COMMENTS
MW-24BR-093	16 March	0905	—	1			1	1	1	1	1	1	4	
														TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Richard L Ricks	CH2M Hill	16 March 0930
Signature (Received)	L. Shaleeeeeee	TT	3/16/06 10:15
Signature (Relinquished)	L. Shaleeeeeee	TT	3/17/06 9:35
Signature (Received)	Phil Hatcher	EMAX	3/17/06 9:35
Signature (Relinquished)	Phil Hatcher	EMAX	3/17/06
Signature (Received)	J. LUNA	EMAX	3/17/06

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ 3.0 C

CUSTODY SEALED YES ☑ NO ☐

SPECIAL REQUIREMENTS:

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-093-Q1]

COC Number 999
TURNAROUND TIME 10 Days
DATE 16March06 PAGE 1 OF 1

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM \
SAMPLERS (SIGNATURE

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-24BR-093	16March	0905	—	1	1	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Richy L Ricks	CH2M Hill	16March06 0936
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☑ NO ☐

SPECIAL REQUIREMENTS: