



**Pacific Gas and
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March 14, 2008

Robert Perdue
Executive Officer
California Regional Water Quality Control Board
Colorado River Basin Region
73-720 Fred Waring Drive, Suite 100
Palm Desert, CA 92260

**Subject: Board Order R7-2006-0060
PG&E Topock Compressor Station, Needles, California
Interim Measure No. 3 Groundwater Treatment System
Discharge to Injection Wells
February 2008 Monitoring Report**

Dear Mr. Perdue:

Enclosed is the February 2008 Monitoring Report for the Pacific Gas and Electric Company (PG&E) Topock Compressor Station, Interim Measure (IM) No. 3 Groundwater Treatment System.

This report is being submitted in compliance with the Waste Discharge Requirements (WDRs) issued September 20, 2006 by the California Regional Water Quality Control Board, Colorado River Basin Region (Water Board) under Order R7-2006-0060. The WDRs apply to IM No. 3 Treatment System discharge by subsurface injection.

The groundwater monitoring results for wells OW-1S/M/D, OW-2S/M/D, OW-5S/M/D, CW-1M/D, CW-2M/D, CW-3M/D, and CW-4M/D will be submitted under separate cover, as part of the Compliance Monitoring Program.

If you have any questions regarding this report, please call me at (760) 326-5582.

Sincerely,

Curt Russell
Topock Onsite Project Manager

Enclosures:

February 2008 Monitoring Report for the IM No. 3 Groundwater Treatment System

cc: Abdi Haile, Water Board
Cliff Raley, Water Board
Tom Vandenberg, State Water Resources Control Board
Aaron Yue, DTSC

February 2008 Monitoring Report for Interim Measure No. 3 Groundwater Treatment System

Waste Discharge Requirements Board Order No. R7-2006-0060 PG&E Topock Compressor Station Needles, California

Prepared for
**California Regional Water Quality Control Board
Colorado River Basin Region**

on behalf of
Pacific Gas and Electric Company

March 14, 2008

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155 Grand Avenue, Suite 1000
Oakland, CA 94612

**February 2008 Monitoring Report
for Interim Measure No. 3 Groundwater Treatment System
Waste Discharge Requirements Order No. R7-2006-0060
PG&E Topock Compressor Station
Needles, California**

Prepared for
Pacific Gas and Electric Company

March 14, 2008

**This report was prepared under the supervision of a
California Certified Professional Engineer**



Dennis Fink, P.E. No. 68986
Project Engineer



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Acronyms and Abbreviations

BTEX	benzene, toluene, ethylbenzene, and xylenes
EPA	U.S. Environmental Protection Agency
gpm	gallons per minute
IM	Interim Measure
MRP	Monitoring and Reporting Program
PG&E	Pacific Gas and Electric Company
PST	Pacific Standard Time
TOC	total organic carbon
Truesdail	Truesdail Laboratories, Inc.
Water Board	California Regional Water Quality Control Board, Colorado River Basin Region
WDR	Waste Discharge Requirements

1.0 Introduction

Pacific Gas and Electric Company (PG&E) is implementing an Interim Measure (IM) to address chromium concentrations in groundwater at the Topock Compressor Station near Needles, California. The IM consists of groundwater extraction for hydraulic control of the plume boundaries in the Colorado River floodplain and management of extracted groundwater. The groundwater extraction, treatment, and injection systems collectively are referred to as IM No. 3. Figure 1 provides a map of the project area. All figures are located at the end of this report.

California Regional Water Quality Control Board, Colorado River Basin Region (Water Board) Board Order No. R7-2006-0060 authorizes PG&E to inject treated groundwater into injection wells located on San Bernardino County Assessor's Parcel No. 650-151-06. Order No. R7-2006-0060 was issued September 20, 2006, and is the successor to Order No. R7-2004-0103. The Monitoring and Reporting Program (MRP) under the order requires monthly monitoring reports to be submitted by the fifteenth day of the following month.

This report covers monitoring activities related to operation of the IM No. 3 groundwater treatment system during February 2008. The groundwater monitoring results for wells OW-1S/M/D, OW-2S/M/D, OW-5S/M/D, CW-1M/D, CW-2M/D, CW-3M/D, and CW-4M/D will be submitted under separate cover, as part of the Compliance Monitoring Program.

2.0 Sampling Station Locations

Table 1 lists the locations of sampling stations. (All tables are located at the end of this report.) Sampling station locations are shown on the process and instrumentation diagrams: Figures TP-PR-10-10-04, TP-PR-10-10-08, and TP-PR-10-10-06.

3.0 Description of Activities

The treatment system was initially operated between July 25 and July 28, 2005 for the WDR-mandated startup phase. Discharge to the injection wells was initiated July 31, 2005 after successfully completing the startup phase in accordance with Order R7-2004-0103. Full-time operation of the treatment system commenced in August 2005.

Influent to the treatment facility, permitted by Order R7-2006-0060 (successor to Order R7-2004-0103), includes the following components:

- Groundwater from extraction wells TW-2S, TW-2D, TW-3D, and PE-1.
- Purged groundwater and water generated from rinsing field equipment during monitoring events.
- Groundwater generated during well installation, well development, and aquifer testing.

During February 2008, extraction wells TW-3D and PE-1 operated at a target pump rate of 135 gallons per minute (gpm) excluding periods of planned and unplanned downtime. Extraction wells TW-2S and TW-2D were not operated during February 2008. The operational run time for the IM groundwater extraction system (combined or individual pumping) was 99 percent during the February 2008 reporting period.

Operation of the groundwater treatment system results in the following three out-flow components:

- **Treated Effluent:** Treated water that is discharged to the injection well(s).
- **Reverse Osmosis Concentrate (brine):** Treatment byproduct that is transported and disposed of offsite at a permitted facility.
- **Sludge:** Treatment byproduct that is transported offsite for disposal at a permitted facility. Disposal occurs each time a sludge waste storage bin reaches capacity or within 90 days of the start date for accumulation in the storage container.

During February 2008, PG&E conducted well rehabilitation activities on injection well IW-2 in an attempt to restore the specific injectivity of the injection well to acceptable levels. The well rehabilitation work was conducted while IW-2 was offline and IW-3 was in service. The well rehabilitation efforts included pumping tests, wire brushing, and well surging to remove sediments. The water produced during these activities was trucked to the IM No. 3 treatment plant for processing. The initial results of this maintenance work on IW-2 is some improvement in performance, but additional well rehabilitation work will continue in March to further improve the well performance. The only unusual occurrence during this activity was the detection (by smell) of a petroleum odor in a transport container after a batch of water was added to the treatment plant. An additional sample of the treatment plant effluent was collected and analyzed to determine if the treatment plant effectiveness had been compromised. No petroleum-based compounds were detected in the effluent.

4.0 Groundwater Treatment System Flow Rates

The February 2008 treatment system monthly average flow rates (influent, effluent, and reverse osmosis concentrate) are presented in Table 2.

The system influent flow rate was measured by flow meters at groundwater extraction wells TW-2S, TW-2D, TW-3D, and PE-1 (Figure TP-RP-10-10-03). The treatment system effluent flow rate was measured by flow meters in the piping into injection wells IW-2 and IW-3 (Figure TP-RP-10-10-11). The reverse osmosis concentrate flow rate was measured by a flow meter at the piping carrying water from reverse osmosis concentrate tank T-701 to the truck load-out station (Figure TP-RP-10-10-08).

The IM No. 3 facility treated approximately 5,569,588 gallons of extracted groundwater during February 2008. The IM No. 3 facility also treated approximately 14,900 gallons of water generated from the groundwater monitoring program and 19,600 of injection well development water. There were no containers of solids transported offsite from the IM No. 3 facility during February 2008.

Periods of planned and unplanned extraction system down time (that together resulted in 1 percent of downtime during February 2008) are summarized below. The times shown are in Pacific Standard Time (PST) to be consistent with other data collected (e.g., water level data) at the site.

- **February 13, 2008 (planned):** The extraction well system was offline from 9:15 am until 3:54 pm to complete electrical testing, maintenance on the microfilter unit, servicing the air compressor, and replacing/cleaning select inline instrumentation. Extraction system downtime was 6 hours 39 minutes.
- **February 20, 2008 (unplanned):** The extraction well system was offline from 2:59 pm until 3:08 pm and 3:21 pm to until 3:28 pm due to temporary loss of City of Needles power. Extraction system downtime was 16 minutes.
- **February 21, 2008 (unplanned):** The extraction well system was offline from 9:49 am until 9:50 am while transferring operations to generator power and 12:15 pm until 12:21 pm to return operations to City of Needles power. Extraction system downtime was 7 minutes.
- **February 24, 2008 (unplanned):** The extraction well system was offline from 7:03 am until 7:09 am to transfer operations to generator power and 8:14 am to until 8:20 am to return operations to City of Needles power. Extraction system downtime was 12 minutes.

5.0 Sampling and Analytical Procedures

With the exception of pH, all samples were collected at the designated sampling locations and placed directly into containers provided by Truesdail Laboratories, Inc. (Truesdail). Sample containers were labeled and packaged according to standard sampling procedures.

The samples were stored in a sealed container chilled with ice and transported to Truesdail via courier under chain-of-custody documentation. The laboratories confirmed the samples were received in chilled condition upon arrival.

Truesdail is certified by the California Department of Health Services (Certification No. 1237) under the State of California's Environmental Laboratory Accreditation Program.

California certified laboratory analyses were performed in accordance with the latest edition of the "Guidelines Establishing Test Procedures for Analysis of Pollutants" (40 Code of Federal Regulations Part 136), promulgated by the United States Environmental Protection Agency (EPA).

During February 2008, analysis of pH was conducted at Truesdail for each sample. Starting November 20, 2007, analysis of pH was also conducted by field method pursuant to the Water Board letter dated October 16, 2007 (subject: Clarification of Monitoring and Reporting Program Requirements) authorizing pH measurements to be conducted in the field. The field method pH samples were collected at the designated sampling locations and field tested within 15 minutes of sampling.

As required by the MRP, the analytical method selected for total chromium has a method detection limit of 1 part per billion, and the analytical method selected for hexavalent chromium has a method detection limit of 0.2 part per billion.

Influent, effluent, reverse osmosis concentrate, and sludge sampling were conducted in accordance with the sampling frequency required by the MRP. The sampling analytical results are shown in Tables 3, 4, 5, and 6, respectively.

Groundwater quality is being monitored in observation and compliance wells according to Order R7-2006-0060, and the procedures and schedules approved in the *Groundwater Compliance Monitoring Plan for Interim Measures No. 3 Injection Area* submitted to the Water Board on June 17, 2005. Quarterly groundwater monitoring analytical results for the injection area (wells OW-1S/M/D, OW-2S/M/D, OW-5S/M/D, CW-1M/D, CW-2M/D, CW-3M/D, and CW-4M/D) are reported in a separate document, in conjunction with groundwater level maps of the same monitoring wells.

6.0 Analytical Results

Laboratory reports for samples collected in February 2008 were prepared by certified analytical laboratories, and are presented in Appendix A.

The February 2008 analytical results from groundwater treatment system influent, effluent, reverse osmosis concentrate, and sludge samples are presented in Tables 3, 4, 5, and 6, respectively.

In accordance with the WDR reporting requirements, the following sampling frequency was followed:

- The influent was sampled monthly; the sampling date was February 6, 2008. Results are presented in Table 3.
- The effluent was sampled weekly; the sample dates were February 6, 14, 20 and 27, 2008. Results are presented in Table 4.
- The reverse osmosis concentrate was sampled monthly; the sample date was February 6, 2008. Results are presented in Table 5.
- The sludge was sampled monthly; the sample date was February 20, 2008. In accordance with the WDRs, sludge is required to be sampled each time it is transported offsite (unless sludge is transported offsite more frequently than monthly, in which case the sampling frequency is monthly). Results are presented in Table 6.
- The sludge is required to have an aquatic bioassay test quarterly; the First Quarter 2008 aquatic bioassay test was performed on a sludge sample collected January 3, 2008. Results were presented in the January 2008 Monitoring Report submitted to the Water Board February 15, 2008.

Table 7 identifies the laboratory that performed each analysis and lists the following required information:

- Sample location
- Sample identification number
- Sampler name
- Sample date
- Sample time
- Laboratory performing analysis
- Analysis method
- Analysis date
- Laboratory technician

In addition to the WDR required parameters, one effluent sample (collected February 6, 2008, as described in Section 3.0) was analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), and other volatile organic hydrocarbons. The additional analyses were completed for IM No. 3 facility evaluation. Results were non-detect for BTEX and all other

organics analyzed (concentrations were below laboratory reporting limits). The laboratory report is included in Appendix A.

7.0 Conclusions

There were no exceedances of effluent limitations during the reporting period.

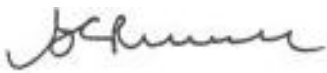
In addition, no incidents of non-compliance were identified during the reporting period, and no events that caused an immediate or potential threat to human health or the environment, or new releases of hazardous waste or hazardous waste constituents, or new solid waste management units, were identified during the reporting period.

8.0 Certification

On August 12, 2005, PG&E submitted a signature delegation letter to the Water Board, delegating PG&E signature authority to Mr. Curt Russell and Ms. Yvonne Meeks for correspondence regarding Board Order R7-2004-0103. Order R7-2006-0600 is the successor to Order R7-2004-0103; an additional signature authority delegation is not required, as confirmed in an email from Jose Cortez dated December 12, 2006.

Certification Statement:

I declare under the penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

Signature: _____

Name: Curt Russell

Company: Pacific Gas and Electric Company

Title: Topock Onsite Project Manager

Date: March 14, 2008

TABLE 1
Sampling Station Descriptions
February 2008 Monitoring Report for Interim Measure No. 3 Groundwater Treatment System

Sample Station	Sample ID^a	Location
Sampling Station A: Groundwater Treatment System Influent	SC-100B-WDR-###	Sample collected from tap on pipe into T-100 (see Figure TP-RP-10-10-04).
Sampling Station B: Groundwater Treatment System Effluent	SC-700B-WDR-###	Sample collected from tap on pipe downstream from T-700 (see Figure TP-RP-10-10-04).
Sampling Station D: Groundwater Treatment System Reverse Osmosis Concentrate	SC-701-WDR-###	Sample collected from tap on pipe into T-701 (see Figure TP-RP-10-10-08).
Sampling Station E: Groundwater Treatment System Sludge	SC-SLUDGE-WDR-###	Sample collected from sludge accumulated in the phase separator used this quarter (see Figure TP-RP-10-10-06).

Note:

= Sequential sample identification number at each sample station.

^a The sample event number is included at the end of the sample ID (e.g., SC-100B-WDR-015).

TABLE 2
Flow Monitoring Results
February 2008 Monitoring Report for Interim Measure No. 3 Groundwater Treatment System

Parameter	System Influent ^{a,b} (gpm)	System Effluent ^{b,c} (gpm)	Reverse Osmosis Concentrate ^b (gpm)
February 2008 Average Monthly Flowrate	133.4	126.5	7.9

Notes:

gpm: gallons per minute.

^a Extraction wells TW-3D and PE-1 were operated during February 2008.

^b The difference between influent flow rate and the sum of the effluent and reverse osmosis concentrate flow rates during February 2008 is less than 0.8 percent, which is within the range of acceptable accuracy (considering the margin of error for onsite instrumentation, the water contained within the sludge, purge water and injection well development water treated at the IM No. 3 facility; in addition to the water from extraction wells, and differences in the inventory of water in the treatment system between the beginning and end of the reporting period).

^c Effluent was discharged into injection well IW-03 during February 2008.

TABLE 3
Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)
Influent Monitoring Results ^a
February 2008 Monthly Report for Interim Measures No.3 Groundwater Treatment System

Required Sampling Frequency		Monthly																									
<div>Sample ID</div>	<div>Date</div>	<div>Analytes Units ^b MDL</div>	TDS	Turbidity	Specific Conductance	Lab ^c pH	Field ^d pH	Chromium	Hexavalent Chromium	Aluminium	Ammonia (as N)	Antimony	Arsenic	Barium	Boron	Copper	Fluoride	Lead	Manganese	Molybdenum	Nickel	Nitrate (as N)	Nitrite (as N)	Sulfate	Iron	Zinc	
			mg/L	NTU	µmhos/cm	pHunits	pHunits	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L
			50.4	0.0070	0.153	0.0700	---	0.27	2.9	0.26	0.0710	0.022	0.015	0.016	0.0048	0.13	0.0250	0.018	0.016	0.017	0.13	0.0350	0.0010	0.600	2.4	0.12	
SC-100B-WDR-137	2/6/2008		5410	ND (0.100)	7870	7.41 J	7.70	1390	1420	ND (50.0)	ND (0.500)	ND (3.0)	ND (5.0)	ND (300)	0.985	ND (10.0)	2.72	ND (2.0)	ND (20.0)	19.8	ND (20.0)	3.34	ND (0.0050)	582	ND (20.0)	ND (20.0)	
RL			250	0.100	2.00	2.00	---	1.0	20.0	50.0	0.500	3.0	5.0	300	0.200	10.0	0.500	2.0	20.0	5.0	20.0	1.00	0.0050	12.5	20.0	20.0	

NOTES:

(---) = not required by the WDR Monitoring and Reporting Program

µg/L = micrograms per liter

mg/L = milligrams per liter

NTU = nephelometric turbidity units

µmhos/cm = micromhos per centimeter

ND = parameter not detected at the listed value

J = concentration or reporting limits estimated by laboratory or validation

MDL = method detection limit

RL = project reporting limit

N = nitrogen

^a Sampling Location for all Influent Samples is tap on pipe from extraction wells into tank T-100 (see attached P&ID TP-PR-10-10-04)

^b Units reported in this table are those units required in the WDRs

^c pH results are J flagged because recent EPA requirements for pH analysis have 15-minute holding time.

^d Starting 11/20/2007, analysis of pH was switched from California certified laboratory analysis to field method pursuant to the Water Board letter dated October 16, 2007 – Clarification of Monitoring and Reporting Program Requirements, stating that pH measurements may be conducted in the field.

TABLE 4
Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)
Effluent Monitoring Results^a
February 2008 Monthly Report for Interim Measures No.3 Groundwater Treatment System

WDRs Effluent Limits ^b	Ave. Monthly	NA	NA	NA	6.5-8.4	6.5-8.4	25	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Max Daily	NA	NA	NA	6.5-8.4	6.5-8.4	50	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Required Sampling Frequency		Weekly							Monthly																	
<div><div></div><div>Analytes Units^c</div><div>MDL^d</div></div>	Date	TDS	Turbidity	Specific Conductance	Lab ^e pH	Field ^f pH	Chromium	Hexavalent Chromium	Aluminium	Ammonia (as N)	Antimony	Arsenic	Barium	Boron	Copper	Fluoride	Lead	Manganese	Molybdenum	Nickel	Nitrate (as N)	Nitrite (as N)	Sulfate	Iron	Zinc	
		mg/L	NTU	µmhos/cm	pHunits	pHunits	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L
		50.4	0.0070	0.153	0.0700	---	0.053	0.14	0.26	0.0710	0.022	0.015	0.016	0.0048	0.13	0.0250	0.018	0.016	0.017	0.13	0.0350	0.0010	0.600	2.4	0.12	
Sample ID	Date																									
SC-700B-WDR-137	2/6/2008	4300	ND (0.100)	6740	8.09 J	8.20	ND (1.0)	ND (1.0)	ND (50.0)	ND (0.500)	ND (3.0)	ND (5.0)	ND (300)	0.964	ND (10.0)	2.15	ND (2.0)	96.4	12.5	ND (20.0)	2.73	ND (0.0050)	472	ND (20.0)	ND (20.0)	
	RL	250	0.100	2.00	2.00	---	1.0	1.0	50.0	0.500	3.0	5.0	300	0.200	10.0	0.500	2.0	20.0	5.0	20.0	1.00	0.0050	12.5	20.0	20.0	
SC-700B-WDR-138	2/14/2008	4400	ND (0.100)	7040	8.14 J	7.80	ND (1.0)	ND (0.20)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	RL	250	0.100	2.00	2.00	---	1.0	0.20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SC-700B-WDR-139	2/20/2008	4220	ND (0.100)	6990	8.01 J	7.90	ND (1.0)	ND (0.20)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	RL	250	0.100	2.00	2.00	---	1.0	0.20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SC-700B-WDR-140	2/27/2008	4140	ND (0.100)	6820	7.97 J	8.00	ND (1.0)	ND (0.20)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	RL	250	0.100	2.00	2.00	---	1.0	0.20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	

NOTES:

(---) = not required by the WDR Monitoring and Reporting Program

NA = not applicable

µg/L = micrograms per liter

mg/L = milligrams per liter

NTU = nephelometric turbidity units

µmhos/cm = micromhos per centimeter

ND = parameter not detected at the listed value

J = concentration or reporting limits estimated by laboratory or validation

RL = project reporting limit

MDL = method detection limit

N = nitrogen

^a Sampling location for all Effluent Samples is tap on pipe downstream from tank T-700 to injection wells (see attached P&ID TP-PR-10-10-04)

^b In addition to the listed effluent limits, the WDRs state that the effluent shall not contain heavy metals, chemicals, pesticides or other constituents in concentrations toxic to human health

^c Units reported in this table are those units required in the WDRs

^d MDL listed is the target MDL by analysis method; however, the MDL may change for each sample analysis due to the dilution required by the matrix to meet the method QC requirements. The target MDL for each method/analyte combination is calculated annually.

^e pH results are J flagged because recent EPA requirements for pH analysis have 15-minute holding time.

^f Starting 11/20/2007, analysis of pH was switched from California certified laboratory analysis to field method pursuant to the Water Board letter dated October 16, 2007 – Clarification of Monitoring and Reporting Program Requirements, stating that pH measurements may be conducted in the field.

TABLE 5
Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)
Reverse Osmosis Concentrate Results ^a
February 2008 Monthly Report for Interim Measures No.3 Groundwater Treatment System

Required Sampling Frequency		Monthly																						
<div>Sample ID</div> <div>Date</div>	<div>Analytes Units ^b</div> <div>MDL</div>	TDS	Specific Conductance	Lab ^c pH	Field ^d pH	Chromium	Hexavalent Chromium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Copper	Fluoride	Lead	Molybdenum	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
		mg/L	µmhos/cm	pHunits	pHunits	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		50.4	0.153	0.0700	---	0.00027	0.00014	0.000022	0.000075	0.000016	0.00019	0.000058	0.000025	0.00065	0.0250	0.000018	0.000084	0.000030	0.00064	0.000080	0.00011	0.000018	0.000062	0.00012
SC-701-WDR-137	2/6/2008	22800	27600	7.95 J	7.90	ND (0.0010)	ND (0.0010)	ND (0.0030)	ND (0.0050)	ND (0.300)	ND (0.0010)	ND (0.0020)	ND (0.0050)	ND (0.0100)	8.49	ND (0.0020)	0.0538	ND (0.00020)	ND (0.0200)	0.0132	0.0058	ND (0.0010)	ND (0.0050)	ND (0.0200)
RL		250	2.00	2.00	---	0.0010	0.0010	0.0030	0.0050	0.300	0.0010	0.0020	0.0050	0.0100	0.500	0.0020	0.0050	0.00020	0.0200	0.0050	0.0050	0.0010	0.0050	0.0200

NOTES:

(---) = not required by the WDR Monitoring and Reporting Program
µg/L = micrograms per liter
mg/L = milligrams per liter
µmhos/cm = micromhos per centimeter
ND = parameter not detected at the listed value
J = concentration or reporting limits estimated by laboratory or validation
MDL = method detection limit
RL = project reporting limit

^a Sampling Location for all Reverse Osmosis Samples is tap on pipe T-701 (see attached P&ID TP-PR-10-10-08)
^b Units reported in this table are those units required in the WDRs
^c pH results are J flagged because recent EPA requirements for pH analysis have 15-minute holding time.
^d Starting 11/20/2007, analysis of pH was switched from California certified laboratory analysis to field method pursuant to the Water Board letter dated October 16, 2007 – Clarification of Monitoring and Reporting Program Requirements, stating that pH measurements may be conducted in the field.

TABLE 6
Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)
Sludge Monitoring Results^a
February 2008 Monthly Report for Interim Measures No.3 Groundwater Treatment System

Required Sampling Frequency		Monthly ^c																		
<div><div></div><div>Analytes</div><div>Units ^b</div><div>MDL</div></div>	<div><div></div><div>Sample ID</div><div>Date</div></div>	Chromium	Hexavalent Chromium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Copper	Fluoride	Lead	Molybdenum	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		0.358	0.00029	3.33	2.44	0.417	0.348	0.268	0.0422	1.39	0.100	1.73	0.116	0.0030	0.731	5.37	0.210	0.119	0.378	0.959
SC-Sludge-WDR-137	2/20/2008	33200	703	812	247	195	341	75.2	21.3	1350	104	136	ND (3.74)	ND (0.149)	66.2	850	25.4	ND (7.47)	195	2260
RL		37.4	30.1	74.8	37.4	37.4	37.4	74.8	3.74	37.4	15.0	74.8	3.74	0.149	37.4	187	15.0	7.47	37.4	187

NOTES:
(---) = not required by the WDR Monitoring and Reporting Program
ND = parameter not detected at the listed value
J = concentration or reporting limits estimated by laboratory or validation
mg/kg = milligrams per killogram
mg/L = milligrams per liter
MDL = method detection limit
RL = project reporting limit

^a Sampling Location for all Sludge Samples is the Sludge Collection Bin (see attached P&ID TP-PR-10-10-06)
^b Units reported in this table are those units required in the WDR
^c Sludge shall be tested for the listed constituents each time sludge is transported offsite, unless transport is more frequent than monthly, in which case the sampling frequency shall be monthly

TABLE 7

Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)

Monitoring Information

February 2008 Monthly Report for Interim Measures No.3 Groundwater Treatment System

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
SC-100B	SC-100B-WDR-137	Ron Phelps	2/6/2008	9:00:00 AM	TLI	EPA 120.1	SC	2/7/2008	Tina Acquiat
					TLI	EPA 200.7	FE	2/11/2008	Michel Mendoza
					TLI	EPA 200.7	B	2/11/2008	Michel Mendoza
					TLI	EPA 200.8	ZN	2/11/2008	Linda Saetem
					TLI	EPA 200.8	SB	2/11/2008	Linda Saetem
					TLI	EPA 200.8	PB	2/11/2008	Linda Saetem
					TLI	EPA 200.8	NI	2/11/2008	Linda Saetem
					TLI	EPA 200.8	MO	2/11/2008	Linda Saetem
					TLI	EPA 200.8	MN	2/11/2008	Linda Saetem
					TLI	EPA 200.8	CU	2/11/2008	Linda Saetem
					TLI	EPA 200.8	CR	2/11/2008	Linda Saetem
					TLI	EPA 200.8	BA	2/11/2008	Linda Saetem
					TLI	EPA 200.8	AS	2/11/2008	Linda Saetem
					TLI	EPA 200.8	AL	2/11/2008	Linda Saetem
					TLI	EPA 218.6	CR6	2/7/2008	Jean-Paul Gleeson
					TLI	EPA 300.0	FL	2/7/2008	Giawad Ghenniwa
					TLI	EPA 300.0	SO4	2/7/2008	Giawad Ghenniwa
					TLI	EPA 300.0	NO3N	2/7/2008	Giawad Ghenniwa
					FIELD	HACH	PH	2/6/2008	Ron Phelps
					TLI	SM2130B	TRB	2/7/2008	Gautam Savani
					TLI	SM2540C	TDS	2/7/2008	Tina Acquiat
					TLI	SM4500-HB	PH	2/7/2008	Tina Acquiat
					TLI	SM4500NH3D	NH3N	2/11/2008	Iordan Stavrev
					TLI	SM4500NO2B	NO2N	2/7/2008	Tina Acquiat
SC-700B	SC-700B-WDR-137	Ron Phelps	2/6/2008	9:00:00 AM	TLI	EPA 120.1	SC	2/7/2008	Tina Acquiat
					TLI	EPA 200.7	B	2/11/2008	Michel Mendoza
					TLI	EPA 200.7	FE	2/11/2008	Michel Mendoza
					TLI	EPA 200.8	AS	2/11/2008	Linda Saetem
					TLI	EPA 200.8	ZN	2/11/2008	Linda Saetem
					TLI	EPA 200.8	SB	2/11/2008	Linda Saetem
					TLI	EPA 200.8	PB	2/11/2008	Linda Saetem
					TLI	EPA 200.8	NI	2/11/2008	Linda Saetem
					TLI	EPA 200.8	MO	2/11/2008	Linda Saetem
					TLI	EPA 200.8	MN	2/11/2008	Linda Saetem
					TLI	EPA 200.8	CU	2/11/2008	Linda Saetem
					TLI	EPA 200.8	CR	2/11/2008	Linda Saetem

TABLE 7

Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)

Monitoring Information

February 2008 Monthly Report for Interim Measures No.3 Groundwater Treatment System

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
SC-700B	SC-700B-WDR-137	Ron Phelps	2/6/2008	9:00:00 AM	TLI	EPA 200.8	AL	2/11/2008	Linda Saetem
					TLI	EPA 200.8	BA	2/11/2008	Linda Saetem
					TLI	EPA 218.6	CR6	2/7/2008	Jean-Paul Gleeson
					TLI	EPA 300.0	NO3N	2/7/2008	Giawad Ghenniwa
					TLI	EPA 300.0	SO4	2/7/2008	Giawad Ghenniwa
					TLI	EPA 300.0	FL	2/7/2008	Giawad Ghenniwa
					FIELD	HACH	PH	2/6/2008	Ron Phelps
					TLI	SM2130B	TRB	2/7/2008	Gautam Savani
					TLI	SM2540C	TDS	2/7/2008	Tina Acquiat
					TLI	SM4500-HB	PH	2/7/2008	Tina Acquiat
					TLI	SM4500NH3D	NH3N	2/11/2008	Iordan Stavrev
					TLI	SM4500NO2B	NO2N	2/7/2008	Tina Acquiat
SC-700B	SC-700B-WDR-138	Joe Aide	2/14/2008	8:30:00 AM	TLI	EPA 120.1	SC	2/15/2008	Tina Acquiat
					TLI	EPA 200.8	CR	2/15/2008	Linda Saetem
					TLI	EPA 218.6	CR6	2/15/2008	Jean-Paul Gleeson
					FIELD	HACH	PH	2/14/2008	Joe Aide
					TLI	SM2130B	TRB	2/15/2008	Gautam Savani
					TLI	SM2540C	TDS	2/15/2008	Tina Acquiat
					TLI	SM4500-HB	PH	2/15/2008	Tina Acquiat
SC-700B	SC-700B-WDR-139	Ron Phelps	2/20/2008	11:40:00 AM	TLI	EPA 120.1	SC	2/21/2008	Tina Acquiat
					TLI	EPA 200.8	CR	3/4/2008	Linda Saetem
					TLI	EPA 218.6	CR6	2/20/2008	Jean-Paul Gleeson
					FIELD	HACH	PH	2/20/2008	Ron Phelps
					TLI	SM2130B	TRB	2/21/2008	Gautam Savani
					TLI	SM2540C	TDS	2/21/2008	Tina Acquiat
					TLI	SM4500-HB	PH	2/21/2008	Tina Acquiat
SC-700B	SC-700B-WDR-140	John Deetz	2/27/2008	1:00:00 PM	TLI	EPA 120.1	SC	2/28/2008	Tina Acquiat
					TLI	EPA 200.8	CR	2/28/2008	Linda Saetem
					TLI	EPA 218.6	CR6	2/28/2008	Jean-Paul Gleeson
					FIELD	HACH	PH	2/27/2008	John Deetz
					TLI	SM2130B	TRB	2/28/2008	Gautam Savani
					TLI	SM2540C	TDS	2/28/2008	Tina Acquiat
					TLI	SM4500-HB	PH	2/28/2008	Tina Acquiat
SC-701	SC-701-WDR-137	Ron Phelps	2/6/2008	9:00:00 AM	TLI	EPA 120.1	SC	2/7/2008	Tina Acquiat
					TLI	EPA 200.8	CR	2/12/2008	Linda Saetem

TABLE 7

Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)

Monitoring Information

February 2008 Monthly Report for Interim Measures No.3 Groundwater Treatment System

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
SC-701	SC-701-WDR-137	Ron Phelps	2/6/2008	9:00:00 AM	TLI	EPA 200.8	PB	2/11/2008	Linda Saetem
					TLI	EPA 200.8	ZN	2/11/2008	Linda Saetem
					TLI	EPA 200.8	V	2/11/2008	Linda Saetem
					TLI	EPA 200.8	TL	2/11/2008	Linda Saetem
					TLI	EPA 200.8	CD	2/11/2008	Linda Saetem
					TLI	EPA 200.8	SB	2/11/2008	Linda Saetem
					TLI	EPA 200.8	NI	2/11/2008	Linda Saetem
					TLI	EPA 200.8	MO	2/12/2008	Linda Saetem
					TLI	EPA 200.8	CU	2/12/2008	Linda Saetem
					TLI	EPA 200.8	CO	2/11/2008	Linda Saetem
					TLI	EPA 200.8	BE	2/11/2008	Linda Saetem
					TLI	EPA 200.8	BA	2/11/2008	Linda Saetem
					TLI	EPA 200.8	AS	2/11/2008	Linda Saetem
					TLI	EPA 200.8	AG	2/11/2008	Linda Saetem
					TLI	EPA 200.8	SE	2/11/2008	Linda Saetem
					TLI	EPA 218.6	CR6	2/7/2008	Jean-Paul Gleeson
					TLI	EPA 245.1	HG	2/13/2008	Michel Mendoza
					TLI	EPA 300.0	FL	2/7/2008	Giawad Ghenniwa
					FIELD	HACH	PH	2/6/2008	Ron Phelps
					TLI	SM2540C	TDS	2/7/2008	Tina Acquiat
					TLI	SM4500-HB	PH	2/7/2008	Tina Acquiat
Phase Seperator	SC-Sludge-WDR-137	Ron Phelps	2/20/2008	11:30:00 AM	TLI	EPA 300.0	FL	2/22/2008	Giawad Ghenniwa
					TLI	EPA 6010B	NI	2/28/2008	Michel Mendoza
					TLI	EPA 6010B	ZN	2/28/2008	Michel Mendoza
					TLI	EPA 6010B	V	2/29/2008	Michel Mendoza
					TLI	EPA 6010B	TL	3/3/2008	Michel Mendoza
					TLI	EPA 6010B	SE	2/29/2008	Michel Mendoza
					TLI	EPA 6010B	AS	2/28/2008	Michel Mendoza
					TLI	EPA 6010B	PB	2/29/2008	Michel Mendoza
					TLI	EPA 6010B	MO	3/3/2008	Michel Mendoza
					TLI	EPA 6010B	CU	2/28/2008	Michel Mendoza
					TLI	EPA 6010B	CR	2/28/2008	Michel Mendoza
					TLI	EPA 6010B	CO	3/3/2008	Michel Mendoza
					TLI	EPA 6010B	CD	2/28/2008	Michel Mendoza
					TLI	EPA 6010B	BE	2/28/2008	Michel Mendoza
					TLI	EPA 6010B	BA	2/28/2008	Michel Mendoza

TABLE 7

Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)

Monitoring Information

February 2008 Monthly Report for Interim Measures No.3 Groundwater Treatment System

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
Phase Separator	SC-Sludge-WDR-137	Ron Phelps	2/20/2008	11:30:00 AM	TLI	EPA 6010B	SB	2/29/2008	Michel Mendoza
					TLI	EPA 7471A	HG	2/28/2008	Michel Mendoza
					TLI	SW 6020A	AG	2/28/2008	Linda Saetem
					TLI	SW 7199	CR6	2/28/2008	David Blackburn

NOTES:

SC-700B = Sampling location for all Effluent Samples is tap on pipe downstream from tank T-700 to injection well IW-2 (see attached P&ID TP-PR-10-10-04)

SC-100B = Sampling Location for all Influent Samples is tap on pipe from extraction wells into tank T-100 (see attached P&ID TP-PR-10-10-04)

SC-701 = Sampling Location for all Reverse Osmosis Samples is tap on pipe T-701 (see attached P&ID TP-PR-10-10-08)

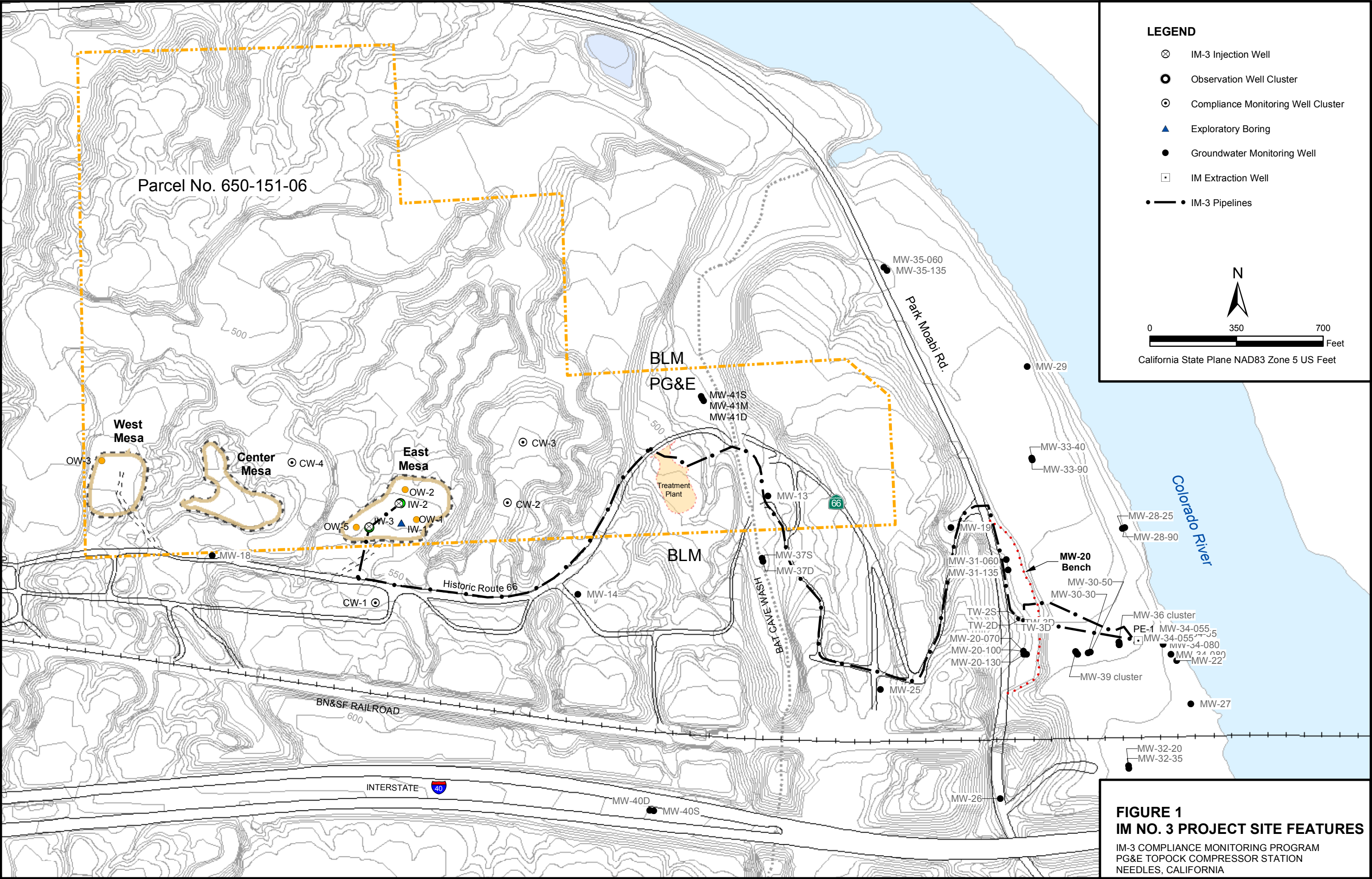
Prior to April 11, 2007 the analytical methods listed in the 40 CFR Part 136 for pH and TDS were E150.1 and E160.1, respectively. Per EPA and Department of Health Services guidelines, the analytical methods listed in the current 40 CFR Part 136 have changed to SM4500-H B and SM2540C as shown on the table.

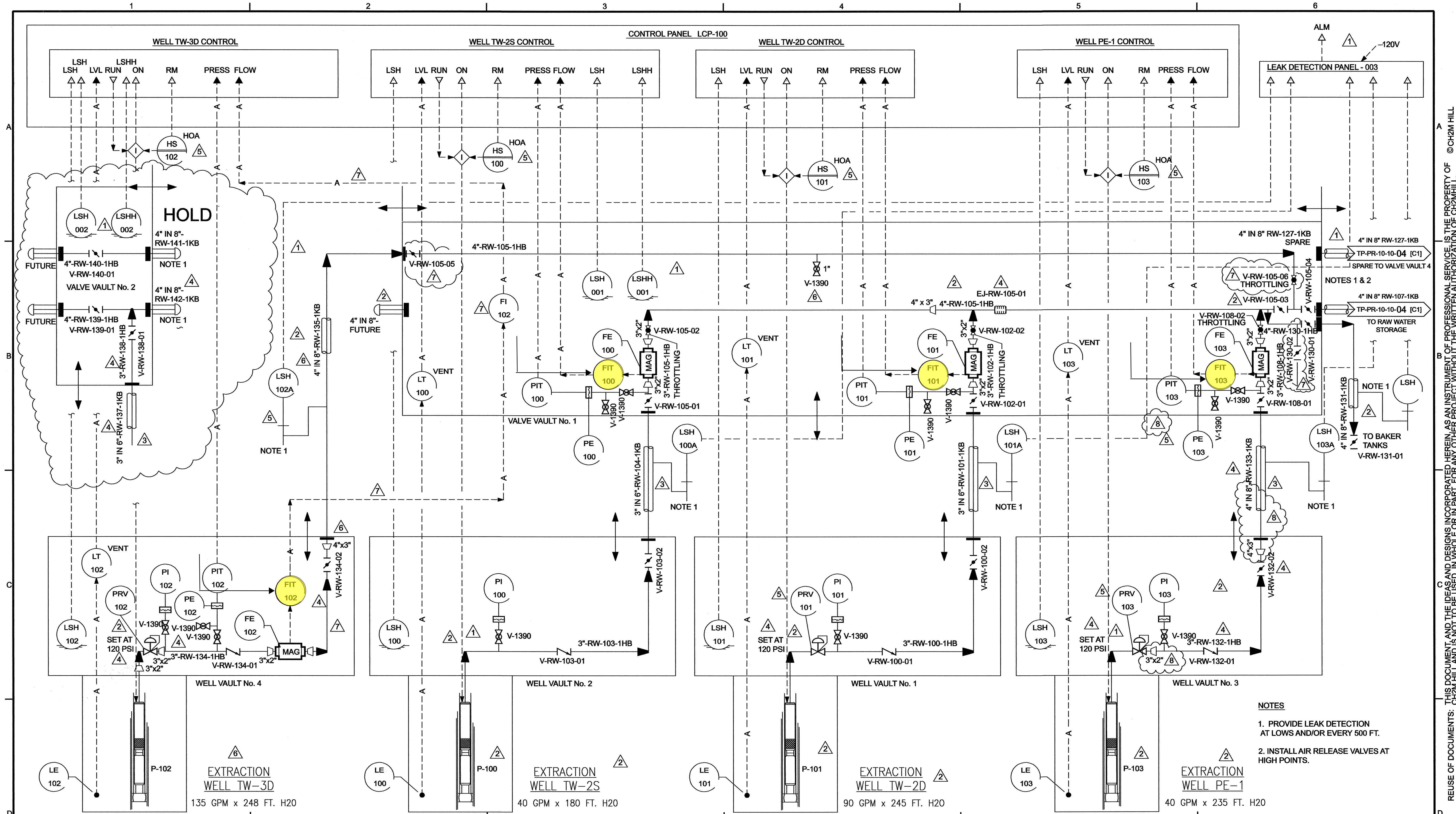
TLI = Truesdail Laboratories, Inc.

ATL = Aquatic Testing Laboratories

SC = specific conductance	MO = molybdenum
PH = pH	NI = nickel
TDS = total dissolved solids	PB = lead
TRB = turbidity	HG = mercury
CR = chromium	SE = selenium
CR6 = hexavalent chromium	TL = thallium
FL = fluoride	CO = cobalt
AL = aluminum	CD = cadmium
B = boron	BE = beryllium
FE = iron	AG = silver
MN = manganese	V = vanadium
ZN = zinc	NO3N = nitrate (as N)
SB = antimony	NH3N = ammonia (as N)
AS = arsenic	NO2N = nitrite (as N)
BA = barium	SO4 = sulfate
CU = copper	

Figures





- NOTES**
1. PROVIDE LEAK DETECTION AT LOWS AND/OR EVERY 500 FT.
 2. INSTALL AIR RELEASE VALVES AT HIGH POINTS.



RESPONSIBLE ENGINEER:
Kenneth L. Martins
PE # CH4876 Exp. 6-30-05

NO.	DATE	REVISION	BY	CHK	REVISION APPROVAL	REV 8	DATE 12/06/05	PRINT DISTRIBUTION
8	12/07/05	REMOVED PE-1 HOLDS	JBW	SDH	DISCIPLINE	REVIEWED	DISCIPLINE	REVIEWED
1	10/13/04	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	CIVIL	—	ELECTRICAL	—
2	01/23/05	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	STRUCTURAL	—	INST & CONTROL	—
3	03/16/05	DELETED NOTES. APPROVED FOR CONSTRUCTION	EFC	AJ	MECHANICAL	—	ARCHITECTURAL	—
4	07/20/05	RELIEF VALVE SETTINGS, WELL PE-1 LINE TAGS, HOLDS REMOVED. APPROVED FOR CONSTRUCTION	EFC	AJ	PROCESS	—	ENVIRONMENTAL	—
5	09/27/05	FINAL RECORD ISSUE	EFC	AJ	PIPING	SDH	GEN. ARRANG.	—
6	10/06/05	REVISED FINAL RECORD - ADDED TW-3D	EFC	AJ	—	—	—	—
7	10/19/05	REVISED AS NOTED	EFC	AJ	—	—	—	—

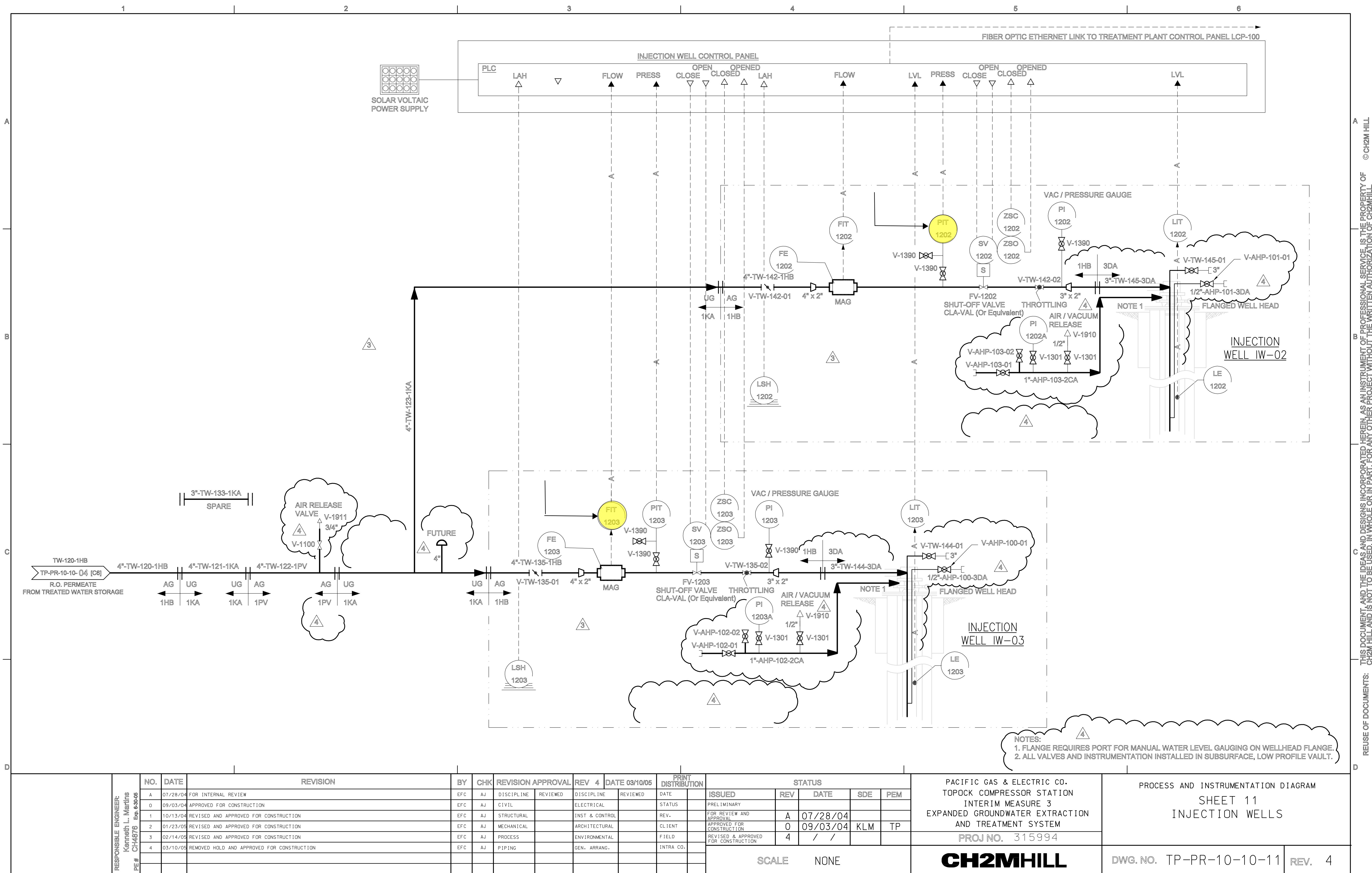
STATUS				
ISSUED	REV	DATE	SDE	PEM
PRELIMINARY				
FOR REVIEW AND APPROVAL	D	07/28/04		
APPROVED FOR CONSTRUCTION	0	09/03/04	KLM	TP
REVISED & APPROVED FOR CONSTRUCTION	7	12/9/05	for KLM	AS

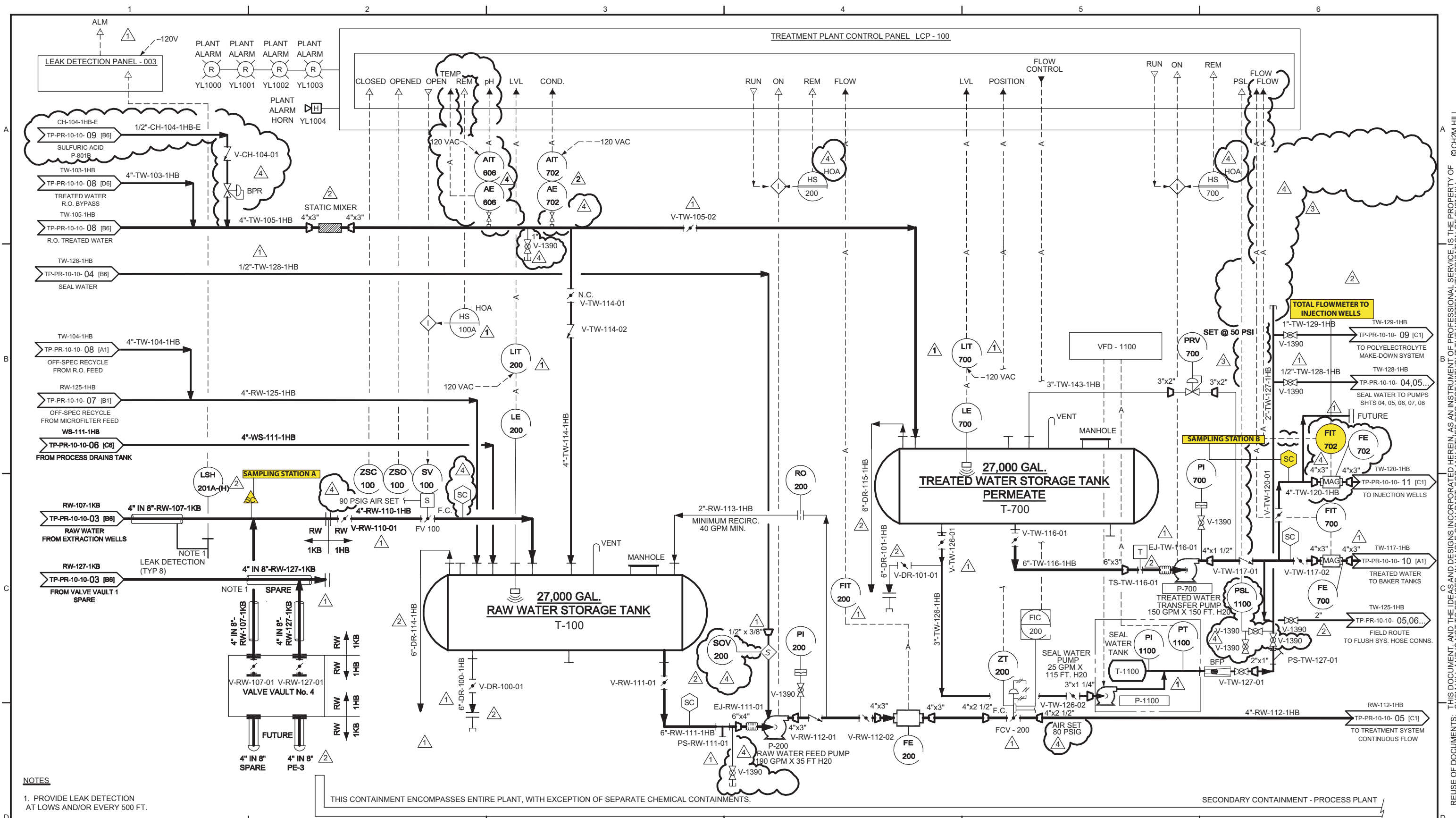
SCALE NONE

PACIFIC GAS & ELECTRIC CO.
TOPOCK COMPRESSOR STATION
INTERIM MEASURE 3
EXPANDED GROUNDWATER EXTRACTION
AND TREATMENT SYSTEM
PROJ. NO. 315994
CH2MHILL

PROCESS AND INSTRUMENTATION DIAGRAM
SHEET 03
EXTRACTION WELLS
PE-1, TW-2D, TW-2S AND TW-3D
DWG. NO. TP-PR-10-10-03 REV. 8

THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.





NOTES
1. PROVIDE LEAK DETECTION AT LOWS AND/OR EVERY 500 FT.

THIS CONTAINMENT ENCOMPASSES ENTIRE PLANT, WITH EXCEPTION OF SEPARATE CHEMICAL CONTAINMENTS.

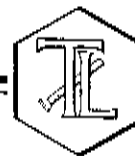
SECONDARY CONTAINMENT - PROCESS PLANT

RESPONSIBLE ENGINEER: Kenneth L. Martins CH4876 PE #	NO.	DATE	REVISION	BY	CHK	REVISION APPROVAL	REV 4	DATE 09/21/05	PRINT DISTRIBUTION	STATUS					PACIFIC GAS & ELECTRIC CO. TOPOCK COMPRESSOR STATION INTERIM MEASURE 3 EXPANDED GROUNDWATER EXTRACTION AND TREATMENT SYSTEM PROJ NO. 315994	PROCESS AND INSTRUMENTATION DIAGRAM SHEET 04 STORAGE AREA			
	0	07/28/04	FOR INTERNAL REVIEW	EFC	AJ	DISCIPLINE	REVIEWED	DISCIPLINE	REVIEWED	DATE		ISSUED	REV	DATE				SDE	PEM
	0	09/03/04	APPROVED FOR CONSTRUCTION	EFC	AJ	CIVIL		ELECTRICAL		STATUS		PRELIMINARY							
	1	10/13/04	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	STRUCTURAL		INST & CONTROL		REV.		FOR REVIEW AND APPROVAL	D	07/28/04					
	2	01/23/05	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	MECHANICAL		ARCHITECTURAL		CLIENT		APPROVED FOR CONSTRUCTION	0	09/03/04				KLM	TP
	3	02/14/05	ADDED RECIRC. LINE AND PRV VALVE TO T-700 - APPROVED FOR CONSTRUCTION	EFC	AJ	PROCESS		ENVIRONMENTAL		FIELD		REVISED & APPROVED FOR CONSTRUCTION	4	/ /					
	4	09/21/05	REVISED PER AS-BUILT CONDITIONS	EFC	AJ	PIPING		GEN. ARRANG.		INTRA CO.									
										SCALE NONE					CH2MHILL		DWG. NO. TP-PR-10-10-04	REV. 4	

Appendix A
February 2008 Laboratory Analytical Reports

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

February 22, 2008

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 • FAX (714) 730-6462
www.truesdail.com

E2 Consulting Engineers, Inc.
Mr. Shawn Duffy
155 Grand Ave., Suite 1000
Oakland, California 94612

Dear Mr. Duffy:

SUBJECT: REVISED CASE NARRATIVE PG&E TOPOCK IM3PLANT-WDR-137 PROJECT,
GROUNDWATER MONITORING,
TLI NO.: 973314

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-137 project groundwater monitoring. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.

The samples were received and delivered with the chain of custody on February 6, 2008, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

Results from the run at a 5x dilution for Hexavalent Chromium by EPA 218.6 for sample SC-701-WDR-137 have been reported although the matrix spike was on the border of the retention time window. The peak and recovery for the matrix spike were within acceptable limits.

A result for Total Barium by EPA 200.8 is reported in the matrix spike calculations for analytical batch 021108A although it is below the contract required detection limit due to the small amount of Barium detected in the sample.

No other violations or nonconformance actions occurred for this data package.

If you have any questions or require additional information, please contact me at (714) 730-6239 ext. 200.

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

for Mona Nassimi
Manager, Analytical Services

for K.R.P. Iyer
Quality Assurance/Quality Control Officer

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: Three (3) Groundwaters

Project Name: PG&E Topock Project

Project No.: 358342.TM.02.00

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

Laboratory No.: 973314

Date: February 15, 2008

Collected: February 6, 2007

Received: February 6, 2007

ANALYST LIST

		ANALYST
EPA 120.1	Specific Conductivity	Tina Acquiat
SM 4500-H B	pH	Tina Acquiat
SM 2540C	Total Dissolved Solids	Tina Acquiat
SM 2130B	Turbidity	Gautam Savani
EPA 300.0	Anions	Giawad Ghenniwa
SM 4500-NH3 B	Ammonia	Iordan Stavrev
SM 4500-NO2 B	Nitrite as N	Tina Acquiat
EPA 200.7	Metals by ICP	Michel Mendoza
EPA 200.8	Metals by ICP/MS	Linda Saetern
EPA 245.1	Mercury	Michel Mendoza
EPA 218.6	Hexavalent Chromium	Jean Paul Gleeson

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



Established 1931

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

REPORT

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

Attention: Shawn Duffy

Laboratory No.: 973314

Sample: Three (3) Groundwaters

Date: February 15, 2008

Project Name: PG&E Topock Project

Collected: February 6, 2007

Project No.: 358342.TM.02.00

Received: February 6, 2007

P.O. No.: 358342.TM.02.00

Prep/ Analyzed: February 7, 2008

Analytical Batch: 02PH08F

Investigation:

pH by SM 4500-H B

Analytical Results pH

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Run Time</u>	<u>Units</u>	<u>MDL</u>	<u>RL</u>	<u>Results</u>
973314-1	SC-100B-WDR-137	08:17	pH	0.0700	2.00	7.41
973314-2	SC-700B-WDR-137	08:20	pH	0.0700	2.00	8.09
973314-3	SC-701-WDR-137	08:21	pH	0.0700	2.00	7.95

QA/QC Summary


<u>QC STD I.D.</u>	<u>Laboratory Number</u>	<u>Concentration</u>	<u>Duplicate Concentration</u>	<u>Difference (Units)</u>	<u>Acceptance limits</u>	<u>QC Within Control</u>
Duplicate	973314-3	7.95	7.96	0.01	+ 0.100 Units	Yes

<u>QC Std I.D.</u>	<u>Measured Concentration</u>	<u>Theoretical Concentration</u>	<u>Difference (Units)</u>	<u>Acceptance Limits</u>	<u>QC Within Control</u>
LCS	7.05	7.00	0.05	+ 0.100 Units	Yes
LCS #1	7.04	7.00	0.04	+ 0.100 Units	Yes

ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



Established 1931

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

REPORT

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

Attention: Shawn Duffy

Laboratory No.: 973314

Sample: Three (3) Groundwaters
Project Name: PG&E Topock Project
Project No.: 358342.TM.02.00
P.O. No.: 358342.TM.02.00

Date: February 15, 2008
Collected: February 6, 2007
Received: February 6, 2007
Prep/ Analyzed: February 7, 2008
Analytical Batch: 02EC08E

Investigation:

Specific Conductivity by EPA 120.1

Analytical Results Specific Conductivity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
973314-1	SC-100B-WDR-137	µmhos/cm	EPA 120.1	1.00	2.00	7870
973314-2	SC-700B-WDR-137	µmhos/cm	EPA 120.1	1.00	2.00	6740
973314-3	SC-701-WDR-137	µmhos/cm	EPA 120.1	1.00	2.00	27600

QA/QC Summary

<u>QC STD I.D.</u>	<u>Laboratory Number</u>	<u>Concentration</u>	<u>Duplicate Concentration</u>	<u>Relative Percent Difference</u>	<u>Acceptance Limits</u>	<u>QC Within Control</u>
Duplicate	973314-3	27600	27700	0.36%	≤ 10%	Yes

<u>QC Std I.D.</u>	<u>Measured Concentration</u>	<u>Theoretical Concentration</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>	<u>QC Within Control</u>
CCS	694	706	98.3%	90% - 110%	Yes
CVS#1	946	996	95.0%	90% - 110%	Yes
LCS	693	706	98.2%	90% - 110%	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Sean Condon
for Mona Nassimi, Manager
Analytical Services

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Attention: Shawn Duffy

Laboratory No.: 973314

Date: February 15, 2008

Collected: February 6, 2007

Received: February 6, 2007

Prep/ Analyzed: February 7, 2008

Analytical Batch: 02TDS08E

Sample: Three (3) Groundwaters
Project Name: PG&E Topock Project
Project No.: 358342.TM.02.00
P.O. No.: 358342.TM.02.00

Investigation:

Total Dissolved Solids by SM 2540C

Analytical Results Total Dissolved Solids

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>RL</u>	<u>Results</u>
973314-1	SC-100B-WDR-137	mg/L	SM 2540C	250	5410
973314-2	SC-700B-WDR-137	mg/L	SM 2540C	250	4300
973314-3	SC-701-WDR-137	mg/L	SM 2540C	250	22800

QA/QC Summary


QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	973300	470	474	0.42%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS 1	505	500	101%	90% - 110%	Yes
LCS 2	501	500	100%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

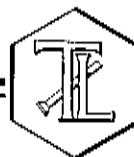
RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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Sample: Three (3) Groundwaters

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Project No.: 358342.TM.02.00

P.O. No.: 358342.TM.02.00

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Laboratory No.: 973314

Date: February 15, 2008

Collected: February 6, 2007

Received: February 6, 2007

Prep/ Analyzed: February 7, 2008

Analytical Batch: 02TUC08G

Investigation:

Turbidity by Method SM 2130B

Analytical Results Turbidity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
973314-1	SC-100B-WDR-137	09:00	NTU	1.00	0.100	ND
973314-2	SC-700B-WDR-137	09:00	NTU	1.00	0.100	ND

QA/QC Summary

<u>QC STD I.D.</u>	<u>Laboratory Number</u>	<u>Concentration</u>	<u>Duplicate Concentration</u>	<u>Relative Percent Difference</u>	<u>Acceptance limits</u>	<u>QC Within Control</u>
Duplicate	973301	14.0	14.1	0.71%	≤ 20%	Yes

<u>QC Std I.D.</u>	<u>Measured Concentration</u>	<u>Theoretical Concentration</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>	<u>QC Within Control</u>
LCS	7.53	8.00	94.1%	90% - 110%	Yes
LCS	7.62	8.00	95.3%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor

Respectfully submitted,
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Sean Condon
for Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

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Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: Three (3) Groundwaters

Project Name: PG&E Topock Project

Project No.: 358342.TM.02.00

P.O. No.: 358342.TM.02.00

Prep. Batch: 02CrH08C

Laboratory No.: 973314

Date: February 15, 2008

Collected: February 6, 2007

Received: February 6, 2007

Prep/ Analyzed: February 7, 2008

Analytical Batch: 02CrH08C

Investigation:

Hexavalent Chromium by IC Using Method EPA 218.6

Analytical Results Hexavalent Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
973314-1	SC-100B-WDR-137	09:00	06:48	mg/L	100	0.0200	1.42
973314-2	SC-700B-WDR-137	09:00	07:55	mg/L	5.00	0.0010	ND
973314-3	SC-701-WDR-137	09:00	08:14	mg/L	5.00	0.0010	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Sample Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	973314-1	1.42	1.47	3.46%	< 20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	973314-1	1.42	100	0.0150	1.50	2.94	2.92	101%	90-110%	Yes
MS	973314-2	0.00	5.00	0.00100	0.00500	0.00512	0.00500	102%	90-110%	Yes
MS	973314-3	0.00	5.00	0.00100	0.00500	0.00517	0.00500	103%	90-110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.00501	0.00500	100%	90% - 110%	Yes
MRCVS#1	0.00995	0.0100	99.5%	95% - 105%	Yes
MRCVS#2	0.00980	0.0100	98.0%	95% - 105%	Yes
LCS	0.00503	0.00500	101%	90% - 110%	Yes
LCSD	0.00501	0.00500	100%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Sean Condon
f. Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

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REPORT

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Oakland, CA 94612

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Project No.: 358342.TM.02.00

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Laboratory No.: 973314

Date: February 15, 2008

Collected: February 6, 2007

Received: February 6, 2007

Prep/ Analyzed: February 11, 2008

Analytical Batch: 02NH3-E08B

Investigation:

Ammonia as N by Method SM 4500-NH3 D

Analytical Results Ammonia as N

TLI I.D.	Field I.D.	Sample Time	Method	Units	DF	RL	Results
973314-1	SC-100B-WDR-137	09:00	SM 4500-NH3 D	mg/L	1.00	0.500	ND
973314-2	SC-700B-WDR-137	09:00	SM 4500-NH3 D	mg/L	1.00	0.500	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	973373-1	2.31	2.31	0.00%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	973373-1	2.31	1.00	6.00	6.00	7.98	8.31	94.5%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS	10.6	10.0	106%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

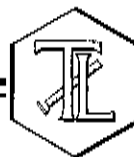
DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Shawn Condon
for Mona Nassimi, Manager
Analytical Services

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Oakland, CA 94612

Attention: Shawn Duffy

Sample: Three (3) Groundwaters

Project Name: PG&E Topock Project

Project No.: 358342.TM.02.00

P.O. No.: 358342.TM.02.00

Laboratory No.: 973314

Date: February 15, 2008

Collected: February 6, 2007

Received: February 6, 2007

Prep/ Analyzed: February 7, 2008

Analytical Batch: 02AN08F

Investigation:

Fluoride by Ion Chromatography using EPA 300.0

Analytical Results Fluoride

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
973314-1	SC-100B-WDR-137	09:00	09:14	mg/L	5.00	0.500	2.72
973314-2	SC-700B-WDR-137	09:00	09:25	mg/L	5.00	0.500	2.15
973314-3	SC-701-WDR-137	09:00	09:36	mg/L	5.00	0.500	8.49

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance Limits	QC Within Control
Duplicate	973314-2	2.15	2.31	7.2%	≤ 20%	Yes


QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	973314-2	2.15	5.00	4.00	20.0	22.7	22.2	103%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCSS	4.18	4.00	105%	90% - 110%	Yes
MRCVS#1	3.14	3.00	105%	90% - 110%	Yes
MRCVS#2	3.13	3.00	104%	90% - 110%	Yes
MRCVS#3	3.13	3.00	104%	90% - 110%	Yes
LCS	4.17	4.00	104%	90% - 110%	Yes
LCSD	4.21	4.00	105%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.

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REPORT

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Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: Three (3) Groundwaters

Project Name: PG&E Topock Project

Project No.: 358342.TM.02.00

P.O. No.: 358342.TM.02.00

Laboratory No.: 973314

Date: February 15, 2008

Collected: February 6, 2007

Received: February 6, 2007

Prep/ Analyzed: February 7, 2008

Analytical Batch: 02AN08F

Investigation:

Sulfate by Method EPA 300.0

Analytical Results Sulfate

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
973314-1	SC-100B-WDR-137	09:00	11:08	mg/L	25.0	12.5	582
973314-2	SC-700B-WDR-137	09:00	11:19	mg/L	25.0	12.5	472

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	973301	77.3	77.4	0.13%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	973301	77.3	25.0	4.00	100	174	177	96.7%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	20.0	20.0	100%	90% - 110%	Yes
MRCVS#1	15.0	15.0	100%	90% - 110%	Yes
MRCVS#2	15.0	15.0	100%	90% - 110%	Yes
LCS	19.8	20.0	99.0%	90% - 110%	Yes
LCSD	20.0	20.0	100%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Seem Candan
for Mona Nassimi, Manager
Analytical Services

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Project No.: 358342.TM.02.00

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Laboratory No.: 973314

Date: February 15, 2008

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Prep/ Analyzed: February 7, 2008

Analytical Batch: 02AN08F

Investigation:

Nitrate as N by Ion Chromatography using EPA 300.0

Analytical Results Nitrate as N

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
973314-1	SC-100B-WDR-137	09:00	09:14	mg/L	5.00	1.00	3.34
973314-2	SC-700B-WDR-137	09:00	09:25	mg/L	5.00	1.00	2.73

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	973314-2	2.73	2.90	6.04%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	973314-2	2.73	5.00	4.00	20.0	23.2	22.7	102%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	4.01	4.00	100%	90% - 110%	Yes
MRCVS#1	2.97	3.00	99.0%	90% - 110%	Yes
MRCVS#2	2.97	3.00	99.0%	90% - 110%	Yes
LCS	4.00	4.00	100%	90% - 110%	Yes
LCSD	4.00	4.00	100%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

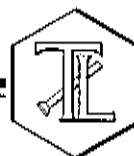
DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Shawn Condon
for, Mona Nassimi, Manager
Analytical Services

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Sample: Three (3) Groundwaters

Project Name: PG&E Topock Project

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Laboratory No.: 973314

Date: February 15, 2008

Collected: February 6, 2007

Received: February 6, 2007

Prep/ Analyzed: February 7, 2008

Analytical Batch: 02NQ208C

Investigation:

Nitrite as N by Method SM 4500-NO2-B

Analytical Results for Nitrite as N

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
973314-1	SC-100B-WDR-137	09:00	14:17	mg/L	1.00	0.0050	ND
973314-2	SC-700B-WDR-137	09:00	14:18	mg/L	1.00	0.0050	ND

QA/QC Summary

QC STD I.D.		Laboratory Number		Concentration		Duplicate Concentration		Relative Percent Difference		Acceptance limits		QC Within Control	
Duplicate		973314-2		ND		ND		0.00%		< 20%		Yes	

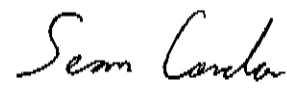
QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	973314-2	0.00	1.00	0.0200	0.0200	0.0198	0.0200	99.0%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.0230	0.0230	100%	90% - 110%	Yes
MRCVS#1	0.0195	0.0200	97.5%	90% - 110%	Yes
LCS	0.0289	0.0290	99.7%	90% - 110%	Yes

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TRUESDAIL LABORATORIES, INC.

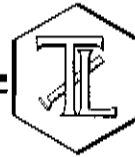
for 
Mona Nassimi, Manager
Analytical Services

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Attention: Shawn Duffy

Samples: Three (3) Groundwaters
Project Name: PG&E Topock Project
Project No.: 358342.TM.02.00
P.O. No.: 358342.TM.02.00

Investigation: Total Metal Analyses as Requested

REPORT

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Laboratory No.: 973314

Reported: February 15, 2008

Collected: February 6, 2007

Received: February 6, 2007

Analyzed: February 11 - 13, 2007

Analytical Results

SAMPLE ID: SC-100B-WDR-137		Time Collected: 09:00		LAB ID: 973314-1				
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	EPA 200.8	ND	1.00	mg/L	0.0500	021108A	02/11/08	12:15
Antimony	EPA 200.8	ND	1.00	mg/L	0.0030	021108A	02/11/08	12:15
Arsenic	EPA 200.8	ND	1.00	mg/L	0.0050	021108A	02/11/08	12:15
Barium	EPA 200.8	ND	1.00	mg/L	0.300	021108A	02/11/08	12:15
Chromium	EPA 200.8	1.39	5.00	mg/L	0.0010	021108A	02/11/08	12:22
Copper	EPA 200.8	ND	1.00	mg/L	0.0100	021108A	02/11/08	12:15
Lead	EPA 200.8	ND	1.00	mg/L	0.0020	021108A	02/11/08	12:15
Manganese	EPA 200.8	ND	1.00	mg/L	0.0200	021108A	02/11/08	12:15
Molybdenum	EPA 200.8	0.0198	1.00	mg/L	0.0050	021108A	02/11/08	12:15
Nickel	EPA 200.8	ND	1.00	mg/L	0.0200	021108A	02/11/08	12:15
Zinc	EPA 200.8	ND	1.00	mg/L	0.0200	021108A	02/11/08	12:15
Boron	EPA 200.7	0.985	1.00	mg/L	0.200	021108A	02/11/08	12:37
Iron	EPA 200.7	ND	1.00	mg/L	0.0200	021108A	02/11/08	12:37

SAMPLE ID: SC-700B-WDR-137		Time Collected: 09:00		LAB ID: 973314-2				
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	EPA 200.8	ND	1.00	mg/L	0.0500	021108A	02/11/08	12:40
Antimony	EPA 200.8	ND	1.00	mg/L	0.0030	021108A	02/11/08	12:40
Arsenic	EPA 200.8	ND	1.00	mg/L	0.0050	021108A	02/11/08	12:40
Barium	EPA 200.8	ND	1.00	mg/L	0.300	021108A	02/11/08	12:40
Chromium	EPA 200.8	ND	1.00	mg/L	0.0010	021108A	02/11/08	12:40
Copper	EPA 200.8	ND	1.00	mg/L	0.0100	021108A	02/11/08	12:40
Lead	EPA 200.8	ND	1.00	mg/L	0.0020	021108A	02/11/08	12:40
Manganese	EPA 200.8	0.0964	1.00	mg/L	0.0200	021108A	02/11/08	12:40
Molybdenum	EPA 200.8	0.0125	1.00	mg/L	0.0050	021108A	02/11/08	12:40
Nickel	EPA 200.8	ND	1.00	mg/L	0.0200	021108A	02/11/08	12:40
Zinc	EPA 200.8	ND	1.00	mg/L	0.0200	021108A	02/11/08	12:40
Boron	EPA 200.7	0.964	1.00	mg/L	0.200	021108A	02/11/08	12:41
Iron	EPA 200.7	ND	1.00	mg/L	0.0200	021108A	02/11/08	12:41

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.

018



TRUESDAIL LABORATORIES, INC.

Report Continued

SAMPLE ID: SC-701-WDR-137		Time Collected: 09:00		LAB ID: 973314-3				
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Antimony	EPA 200.8	ND	1.00	mg/L	0.0030	021108A	02/11/08	12:59
Arsenic	EPA 200.8	ND	5.00	mg/L	0.0050	021108A	02/11/08	13:11
Barium	EPA 200.8	ND	1.00	mg/L	0.300	021108A	02/11/08	12:59
Beryllium	EPA 200.8	ND	5.00	mg/L	0.0010	021108A	02/11/08	13:11
Cadmium	EPA 200.8	ND	5.00	mg/L	0.0020	021108A	02/11/08	13:11
Chromium	EPA 200.8	ND	5.00	mg/L	0.0010	021208A	02/12/08	11:11
Cobalt	EPA 200.8	ND	1.00	mg/L	0.0050	021108A	02/11/08	12:59
Copper	EPA 200.8	ND	5.00	mg/L	0.0100	021208A	02/12/08	11:11
Lead	EPA 200.8	ND	1.00	mg/L	0.0020	021108A	02/11/08	12:59
Mercury	EPA 245.1	ND	1.00	mg/L	0.00020	02HG08Aa	02/13/08	N/A
Molybdenum	EPA 200.8	0.0538	5.00	mg/L	0.0050	021208A	02/12/08	11:11
Nickel	EPA 200.8	ND	5.00	mg/L	0.0200	021108A	02/11/08	13:11
Selenium	EPA 200.8	0.0132	5.00	mg/L	0.0050	021108A	02/11/08	13:11
Silver	EPA 200.8	0.0058	5.00	mg/L	0.0050	021108A	02/11/08	13:11
Thallium	EPA 200.8	ND	1.00	mg/L	0.0010	021108A	02/11/08	12:59
Vanadium	EPA 200.8	ND	5.00	mg/L	0.0050	021108A	02/11/08	13:11
Zinc	EPA 200.8	ND	1.00	mg/L	0.0200	021108A	02/11/08	12:59

ND: Not detected, or below limit of detection.

DF: Dilution factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


for Mona Nassimi, Manager
Analytical Services



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

CHAIN OF CUSTODY RECORD

[IM3] Plant-WDR-137

973314

Rec'd 02/06/08
Lab.# 973314

COC Number

TURNAROUND TIME 10 Days

DATE PAGE OF

COMPANY E2
PROJECT NAME PG&E Topock
PHONE (530) 229-3303 FAX (530) 339-3303
ADDRESS 155 Grand Ave Site 1000
Oakland, CA 94612
P.O. NUMBER 358342.TM.02.00 TEAM 1
SAMPLERS (SIGNATURE) [Signature]

COMPANY	E2			P.O. NUMBER 358342, TM.02.00	TEAM 1	SAMPLERS (SIGNATURE) 	SAMPLE I.D.	SC-100B-WDR-137		2-6-08	09:00	Water	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
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For Sample Conditions
See Form Attached

ALERT!!
Level III QC

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
[Signature]	Paul Phelps	Agency	2-6-08 09:00
Signature (Received)	Printed Name	Company/Agency	Date/Time
[Signature]	Bonifacio Dapay	BONIFACIO DAPAY Agency	2-6-08 15:00
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
[Signature]	Bonifacio Dapay	B. DAPAY Agency	2-6-08 19:35
Signature (Received)	Printed Name	Company/Agency	Date/Time
[Signature]	Shobkumar	Shobkumar Agency	FEB 06 2008 19:35
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
[Signature]	[Name]	[Agency]	[Date/Time]
Signature (Received)	Printed Name	Company/Agency	Date/Time
[Signature]	[Name]	[Agency]	[Date/Time]

SAMPLE CONDITIONS			
RECEIVED	COOL <input type="checkbox"/>	WARM <input type="checkbox"/>	°F
CUSTODY SEALED	YES <input type="checkbox"/>	NO <input type="checkbox"/>	
SPECIAL REQUIREMENTS:			

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

February 29, 2008

E2 Consulting Engineers, Inc.
Mr. Shawn Duffy
155 Grand Ave., Suite 1000
Oakland, California 94612

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK IM3PLANT-WDR-138 PROJECT, GROUNDWATER
MONITORING, TLI NO.: 973542

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-138 project groundwater monitoring for Hexavalent and Total Chromium, Turbidity, Specific Conductivity, pH, and Total Dissolved Solids. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.

The samples were received and delivered with the chain of custody on February 14, 2008, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

Due to the large number of samples in-house, the sample for Total Chromium analysis was analyzed by method EPA 200.8, rather than EPA 200.7 as requested on the chain of custody.

No other violations or nonconformance actions occurred for this data package.

If you have any questions or require additional information, please contact me at (714) 730-6239 ext. 200.

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

Seam Condon
for Mona Nassimi
Manager, Analytical Services

K.R.P. Iyer

K.R.P. Iyer
Quality Assurance/Quality Control Officer

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: One (1) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 358342.TM.02.00

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

Laboratory No.: 973542

Date: February 29, 2008

Collected: February 14, 2008

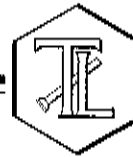
Received: February 14, 2008

ANALYST LIST

EPA 120.1	Specific Conductivity	Tina Acquiat
SM 4500-H B	pH	Tina Acquiat
SM 2540C	Total Dissolved Solids	Tina Acquiat
SM 2130B	Turbidity	Gautam Savani
EPA 200.8	Total Chromium	Linda Saetern
EPA 218.6	Hexavalent Chromium	Jean-Paul Gleeson

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



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REPORT

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: One (1) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 358342.TM.02.00
P.O. No.: 358342.TM.02.00

Laboratory No.: 973542

Date: February 29, 2008
Collected: February 14, 2008
Received: February 14, 2008
Prep/ Analyzed: February 14, 2008
Analytical Batch: 02CrH081

Investigation:

Hexavalent Chromium by EPA 218.6

Analytical Results Hexavalent Chromium

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
973542	SC-700B-WDR-138	08:30	23:59	mg/L	1.05	0.00020	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	973542	ND	ND	0.00%	< 20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	973542	0.00	1.06	0.00100	0.00106	0.00113	0.00106	107%	90 - 110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.00511	0.00500	102%	90% - 110%	Yes
MRCVS#1	0.0102	0.0100	102%	95% - 105%	Yes
MRCVS#2	0.0102	0.0100	102%	95% - 105%	Yes
MRCVS#3	0.0101	0.0100	101%	95% - 105%	Yes
MRCVS#4	0.0102	0.0100	102%	95% - 105%	Yes
MRCVS#5	0.0102	0.0100	102%	95% - 105%	Yes
LCS	0.00514	0.00500	103%	90% - 110%	Yes
LCSD	0.00514	0.00500	103%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Sean Condon
for **Mona Nassimi, Manager**
Analytical Services

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REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: One (1) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 358342.TM.02.00

P.O. No.: 358342.TM.02.00

Prep. Batch: 021508B

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Laboratory No.: 973542

Date: February 29, 2008

Collected: February 14, 2008

Received: February 14, 2008

Prep/ Analyzed: February 15, 2008

Analytical Batch: 021508B

Investigation: Total Chromium by Inductively Coupled Argon Plasma Mass Spectrometer
using EPA 200.8

Analytical Results Total Chromium

TLI I.D.	Field I.D.	Units	Method	Run Time	DF	RL	Results
973542	SC-700B-WDR-138	mg/L	EPA 200.8	14:48	1.00	0.0010	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	973539-3	0.0174	0.0171	1.74%	≤20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	973539-3	0.0174	1.00	0.0500	0.0500	0.0639	0.0674	93.0%	70-130%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.0506	0.0500	101%	90% - 110%	Yes
MRCVS#1	0.0468	0.0500	93.6%	90% - 110%	Yes
MRCVS#2	0.0455	0.0500	91.0%	90% - 110%	Yes
ICS	0.0474	0.0500	94.8%	80% - 120%	Yes
LCS	0.0464	0.0500	92.8%	90% - 110%	Yes

ND: Not detected at reporting limit

DF: Dilution Factor

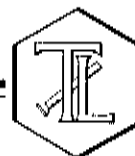
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Moni Nassimi
for Moni Nassimi, Manager
Analytical Services

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REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: One (1) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 358342.TM.02.00

P.O. No.: 358342.TM.02.00

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Laboratory No.: 973542

Date: February 29, 2008

Collected: February 14, 2008

Received: February 14, 2008

Prep/ Analyzed: February 15, 2008

Analytical Batch: 02TDS08H

Investigation:

Total Dissolved Solids by SM 2540C

Analytical Results Total Dissolved Solids

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>RL</u>	<u>Results</u>
973542	SC-700B-WDR-138	mg/L	SM 2540C	250	4400

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	973542	4400	4450	0.56%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS 1	496	500	99.2%	90% - 110%	Yes
LCS 2	495	500	99.0%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sem Condon
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



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REPORT

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Attention: Shawn Duffy

Laboratory No.: 973542

Sample: One (1) Groundwater Samples

Date: February 29, 2008

Project Name: PG&E Topock Project

Collected: February 14, 2008

Project No.: 358342.TM.02.00

Received: February 14, 2008

P.O. No.: 358342.TM.02.00

Prep/ Analyzed: February 15, 2008

Analytical Batch: 02TUC08N

Investigation:

Turbidity by Method SM 2130B

Analytical Results Turbidity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
973542	SC-700B-WDR-138	08:30	NTU	1.00	0.100	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	973542	ND	ND	0.00%	≤ 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS	7.40	8.00	92.5%	90% - 110%	Yes
LCS	7.42	8.00	92.8%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

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Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: One (1) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 358342.TM.02.00

P.O. No.: 358342.TM.02.00

Laboratory No.: 973542

Date: February 29, 2008

Collected: February 14, 2008

Received: February 14, 2008

Prep/ Analyzed: February 15, 2008

Analytical Batch: 02PH08N

Investigation:

pH by SM 4500-H B

Analytical Results pH

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>MDL</u>	<u>RL</u>	<u>Results</u>
973542	SC-700B-WDR-138	08:30	07:47	pH	0.0700	2.00	8.14

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Difference (Units)	Acceptance limits	QC Within Control
Duplicate	973542	8.14	8.14	0.00	+ 0.100 Units	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Difference (Units)	Acceptance Limits	QC Within Control
LCS	7.04	7.00	0.04	+ 0.100 Units	Yes
LCS #1	7.05	7.00	0.05	+ 0.100 Units	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

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Attention: Shawn Duffy

Laboratory No.: 973542

Sample: One (1) Groundwater Samples

Date: February 29, 2008

Project Name: PG&E Topock Project

Collected: February 14, 2008

Project No.: 358342.TM.02.00

Received: February 14, 2008

P.O. No.: 358342.TM.02.00

Prep/ Analyzed: February 15, 2008

Analytical Batch: 02EC08H

Investigation:

Specific Conductivity by EPA 120.1

Analytical Results Specific Conductivity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
973542	SC-700B-WDR-138	µmhos/cm	EPA 120.1	1.00	2.00	7040

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	973542	7040	7050	0.14%	≤ 10%	Yes
QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control	
CCS	693	706	98.2%	90% - 110%	Yes	
CVS#1	945	996	94.9%	90% - 110%	Yes	
LCS	693	706	98.2%	90% - 110%	Yes	

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services



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CHAIN OF CUSTODY RECORD

[IM3Plant-WDR-138]

973542

COC Number

10 Days

TURNAROUND TIME

PAGE 1 OF 1

COMPANY	E2	PROJECT NAME	PG&E Topock	PHONE	(530) 229-3303	FAX	(530) 339-3303	ADDRESS	155 Grand Ave Ste 1000 Oakland, CA 94612	P.O. NUMBER	358342.TM.02.00	TEAM	1	SAMPLERS SIGNATURE		DATE	2-14-08	TIME	0830	DESCRIPTION	Water	C6 (218.6) Lab Filtered	x	Total Metals (200.7) Total Chromium	x	Specific Conductance (120.7)	x	TDS (SM2540C)	x	PH (SM4500H8)	x	Turbidity (SM2130)	x	Rec'd 02/14/08 Lab.# 973542	NUMBER OF CONTAINERS	3	COMMENTS	Temp 77.0 PH 7.8
SAMPLE I.D.	SC-700B-WDR-138	DATE	2-14-08	TIME	0830	DESCRIPTION	Water																NUMBER OF CONTAINERS	3	TOTAL NUMBER OF CONTAINERS	3												

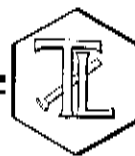
ALERT!!
Level III QC

For Sample Conditions
See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD										SAMPLE CONDITIONS			
Signature (Relinquished)		Printed Name	Joe ADE	Company/Agency	MT	Date/Time	2-14-08 0830	RECEIVED	COOL	YES	WARM	NO	°F
Signature (Received)	Rafael Danks	Printed Name	Rafael Danks	Company/Agency	T.L.I	Date/Time	2-14-08 0830	CUSTODY SEALED	YES	NO			
Signature (Relinquished)	Rafael Danks	Printed Name	Rafael Danks	Company/Agency	T.L.I	Date/Time	2-14-08 2030	SPECIAL REQUIREMENTS:					
Signature (Received)	Stidlevina	Printed Name	Stidlevina	Company/Agency	TH	Date/Time	FEB 14 2008 20:30						
Signature (Relinquished)		Printed Name		Company/Agency		Date/Time							
Signature (Received)		Printed Name		Company/Agency		Date/Time							

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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14201 FRANKLIN AVENUE
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www.truesdail.com

March 4, 2008

E2 Consulting Engineers, Inc.
Mr. Shawn Duffy
155 Grand Ave., Suite 1000
Oakland, California 94612

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK IM3PLANT-WDR-139 PROJECT, GROUNDWATER
MONITORING, TLI NO.: 973677

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-139 project groundwater monitoring for Hexavalent and Total Chromium, Turbidity, Specific Conductivity, pH, and Total Dissolved Solids. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.

The samples were received and delivered with the chain of custody on February 20, 2008, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

Due to the large number of samples in-house, the sample for Total Chromium analysis was analyzed by method EPA 200.8, rather than EPA 200.7 as requested on the chain of custody.

No other violations or nonconformance actions occurred for this data package.

If you have any questions or require additional information, please contact me at (714) 730-6239 ext. 200.

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

Sean Condon
to - Mona Nassimi
Manager, Analytical Services

K. R. P. Iyer

K.R.P. Iyer
Quality Assurance/Quality Control Officer

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: One (1) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 358342.TM.02.00

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TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

Laboratory No.: 973677

Date: March 4, 2008

Collected: February 20, 2008

Received: February 20, 2008

ANALYST LIST

METHOD	PARAMETER	ANALYST
EPA 120.1	Specific Conductivity	Tina Acquiat
SM 4500-H B	pH	Tina Acquiat
SM 2540C	Total Dissolved Solids	Tina Acquiat
SM 2130B	Turbidity	Gautam Savani
EPA 200.8	Total Chromium	Linda Saetern
EPA 218.6	Hexavalent Chromium	Jean-Paul Gleeson

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Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Laboratory No.: 973677

Sample: One (1) Groundwater Samples

Date: March 4, 2008

Project Name: PG&E Topock Project

Collected: February 20, 2008

Project No.: 358342.TM.02.00

Received: February 20, 2008

P.O. No.: 358342.TM.02.00

Prep/ Analyzed: March 4, 2008

Prep. Batch: 030408A

Analytical Batch: 030408A

Investigation: Total Chromium by Inductively Coupled Argon Plasma Mass Spectrometer
using EPA 200.8

Analytical Results Total Chromium

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>Run Time</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
973677	SC-700B-WDR-139	mg/L	EPA 200.8	10:59	1.00	0.0010	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	973677	ND	ND	0.00%	≤20%	Yes


QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	973677	0.00	1.00	0.0500	0.0500	0.0546	0.0500	109%	70-130%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.0504	0.0500	101%	90% - 110%	Yes
MRCVS#1	0.0474	0.0500	94.8%	90% - 110%	Yes
ICS	0.0513	0.0500	103%	80% - 120%	Yes
LCS	0.0507	0.0500	101%	90% - 110%	Yes

ND: Not detected at reporting limit

DF: Dilution Factor

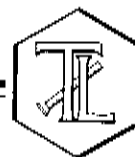
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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www.truesdail.com

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Laboratory No.: 973677

Sample: One (1) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 358342.TM.02.00
P.O. No.: 358342.TM.02.00

Date: March 4, 2008
Collected: February 20, 2008
Received: February 20, 2008
Prep/ Analyzed: February 20, 2008
Analytical Batch: 02CrH08Q

Investigation:

Hexavalent Chromium by EPA 218.6

Analytical Results Hexavalent Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
973677	SC-700B-WDR-139	11:40	20:51	mg/L	1.05	0.00020	ND

QA/QC Summary

QC STD I.D.		Laboratory Number		Concentration		Duplicate Concentration		Relative Percent Difference		Acceptance limits		QC Within Control	
Duplicate		973677		ND		ND		0.00%		< 20%		Yes	

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	973677	0.00	1.06	0.00100	0.00106	0.00116	0.00106	109%	90 - 110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.00512	0.00500	102%	90% - 110%	Yes
MRCVS#1	0.0100	0.0100	100%	95% - 105%	Yes
MRCVS#2	0.0101	0.0100	101%	95% - 105%	Yes
MRCVS#3	0.0102	0.0100	102%	95% - 105%	Yes
LCS	0.00509	0.00500	102%	90% - 110%	Yes
LCSD	0.00510	0.00500	102%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Sean Condon
for Mona Nassimi, Manager
Analytical Services

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Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: One (1) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 358342.TM.02.00

P.O. No.: 358342.TM.02.00

Laboratory No.: 973677

Date: March 4, 2008

Collected: February 20, 2008

Received: February 20, 2008

Prep/ Analyzed: February 21, 2008

Analytical Batch: 02TUC08Q

Investigation:

Turbidity by Method SM 2130B

Analytical Results Turbidity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
973677	SC-700B-WDR-139	11:40	NTU	1.00	0.100	ND

QA/QC Summary

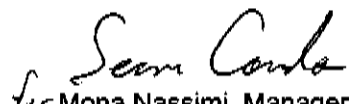
QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance Limits	QC Within Control
Duplicate	973666-4	ND	ND	0.00%	≤ 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS	7.51	8.00	93.9%	90% - 110%	Yes
LCS	7.45	8.00	93.1%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



Established 1931

REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 • FAX (714) 730-6462
www.truesdail.com

Attention: Shawn Duffy

Laboratory No.: 973677

Sample: One (1) Groundwater Samples

Date: March 4, 2008

Project Name: PG&E Topock Project

Collected: February 20, 2008

Project No.: 358342.TM.02.00

Received: February 20, 2008

P.O. No.: 358342.TM.02.00

Prep/ Analyzed: February 21, 2008

Analytical Batch: 02TDS08L

Investigation:

Total Dissolved Solids by SM 2540C

Analytical Results Total Dissolved Solids

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>RL</u>	<u>Results</u>
973677	SC-700B-WDR-139	mg/L	SM 2540C	250	4220

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance Limits	QC Within Control
Duplicate	973677	4220	4260	0.47%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS 1	503	500	101%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Sean Candan
for, Mona Nassimi, Manager
Analytical Services

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.

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TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



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REPORT

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(714) 730-6239 · FAX (714) 730-6462
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Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: One (1) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 358342.TM.02.00

P.O. No.: 358342.TM.02.00

Laboratory No.: 973677

Date: March 4, 2008

Collected: February 20, 2008

Received: February 20, 2008

Prep/ Analyzed: February 21, 2008

Analytical Batch: 02PH08S

Investigation:

pH by SM 4500-H B

Analytical Results pH

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>MDL</u>	<u>RL</u>	<u>Results</u>
973677	SC-700B-WDR-139	11:40	08:07	pH	0.0700	2.00	8.01

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Difference (Units)	Acceptance Limits	QC Within Control
Duplicate	973677	8.01	8.01	0.00	+ 0.100 Units	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Difference (Units)	Acceptance Limits	QC Within Control
LCS	7.05	7.00	0.05	+ 0.100 Units	Yes
LCS #1	7.05	7.00	0.05	+ 0.100 Units	Yes
LCS #2	7.04	7.00	0.04	+ 0.100 Units	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Sean Condon
for Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

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Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: One (1) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 358342.TM.02.00

P.O. No.: 358342.TM.02.00

Laboratory No.: 973677

Date: March 4, 2008

Collected: February 20, 2008

Received: February 20, 2008

Prep/ Analyzed: February 21, 2008

Analytical Batch: 02EC08L

Investigation:

Specific Conductivity by EPA 120.1

Analytical Results Specific Conductivity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
973677	SC-700B-WDR-139	µmhos/cm	EPA 120.1	1.00	2.00	6990

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	973677	6990	6990	0.00%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
CCS	694	706	98.3%	90% - 110%	Yes
CVS#1	946	996	95.0%	90% - 110%	Yes
LCS	694	706	98.3%	90% - 110%	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

973677

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

CHAIN OF CUSTODY RECORD
[IM3] Plant-WDR-139

COC Number

10 Days

TURNAROUND TIME

DATE 2-20-08 PAGE 1 Of 1

COMPANY	E2	PROJECT NAME	PG&E Topock	PHONE	(530) 229-3303	FAX	(530) 339-3303	ADDRESS	155 Grand Ave Ste 1000 Oakland, CA 94612	P.O. NUMBER	358342.TM.02.00	TEAM	1	SAMPLERS (SIGNATURE)	
SAMPLE I.D.	SC-700B-WDR-139	DATE	2-20-08	TIME	11:40	DESCRIPTION	Water	Cf (218.6) Lab Filtered	Total Metals (200.7) Total Chromium	Specific Conductance (120.1)	TDS (SM2540C)	PH (SM4500HB)	Turbidity (SM2130)	NUMBER OF CONTAINERS	COMMENTS
														3	pH-7.9 EC: 6 Temp: 79.5
														3	PH=2
															TOTAL NUMBER OF CONTAINERS

Sample Conditions
Form Attached

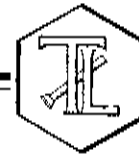
ALERT!!
RUSH Level III QC

Rec'd 02/20/08
Lab.# 973677

CHAIN OF CUSTODY SIGNATURE RECORD				SAMPLE CONDITIONS			
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	RECEIVED	COOL	WARM	°F
	Bonifacio Dayag	BM	2-20-08				
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	CUSTODY SEALED	YES	NO	
	Bonifacio Dayag	BM	2-20-08				
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	SPECIAL REQUIREMENTS:			
	Bonifacio Dayag	BM	2-20-08				
Signature (Received)	Printed Name	Company/ Agency	Date/ Time				
	Bonifacio Dayag	BM	2-20-08				
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time				
	Bonifacio Dayag	BM	2-20-08				
Signature (Received)	Printed Name	Company/ Agency	Date/ Time				
	Bonifacio Dayag	BM	2-20-08				

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

March 4, 2008

E2 Consulting Engineers, Inc.
Mr. Shawn Duffy
155 Grand Ave., Suite 1000
Oakland, California 94612

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK IM3PLANT-WDR-140 PROJECT, GROUNDWATER
MONITORING, TLI No.: 973829

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-140 project groundwater monitoring for Hexavalent and Total Chromium, Turbidity, Specific Conductivity, pH, and Total Dissolved Solids. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.


The samples were received and delivered with the chain of custody on February 27, 2008, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

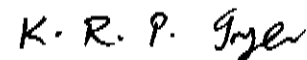
Due to the large number of samples in-house, the sample for Total Chromium analysis was analyzed by method EPA 200.8, rather than EPA 200.7 as requested on the chain of custody.

No other violations or nonconformance actions occurred for this data package.

If you have any questions or require additional information, please contact me at (714) 730-6239 ext. 200.

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

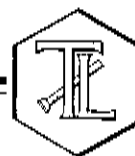
for 
Mona Nassimi
Manager, Analytical Services



K.R.P. Iyer
Quality Assurance/Quality Control Officer

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: One (1) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 358342.TM.02.00

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

Laboratory No.: 973829

Date: March 4, 2008

Collected: February 27, 2008

Received: February 27, 2008

ANALYST LIST

EPA 120.1	Specific Conductivity	Tina Acquiat
SM 4500-H B	pH	Tina Acquiat
SM 2540C	Total Dissolved Solids	Tina Acquiat
SM 2130B	Turbidity	Gautam Savani
EPA 200.8	Total Chromium	Linda Saetern
EPA 218.6	Hexavalent Chromium	Jean-Paul Gleeson

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REPORT

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
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www.truesdail.com

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: One (1) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 358342.TM.02.00

P.O. No.: 358342.TM.02.00

Prep. Batch: 022808A

Laboratory No.: 973829

Date: March 4, 2008

Collected: February 27, 2008

Received: February 27, 2008

Prep/ Analyzed: February 28, 2008

Analytical Batch: 022808A

Investigation: Total Chromium by Inductively Coupled Argon Plasma Mass Spectrometer
using EPA 200.8

Analytical Results Total Chromium

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>Run Time</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
973829	SC-700B-WDR-140	mg/L	EPA 200.8	09:24	1.00	0.0010	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	973829	ND	ND	0.00%	≤20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	973829	0.00	1.00	0.0500	0.0500	0.0463	0.0500	92.6%	70-130%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.0477	0.0500	95.4%	90% - 110%	Yes
MRCVS#1	0.0479	0.0500	95.8%	90% - 110%	Yes
ICS	0.0500	0.0500	100%	80% - 120%	Yes
LCS	0.0486	0.0500	97.2%	90% - 110%	Yes

ND: Not detected at reporting limit

DF: Dilution Factor

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for - Sean Carson
for - Mona Nassimi, Manager
Analytical Services

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.

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REPORT

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Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Laboratory No.: 973829

Sample: One (1) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 358342.TM.02.00
P.O. No.: 358342.TM.02.00

Date: March 4, 2008
Collected: February 27, 2008
Received: February 27, 2008
Prep/ Analyzed: February 28, 2008
Analytical Batch: 02CrH08U

Investigation:

Hexavalent Chromium by EPA 218.6

Analytical Results Hexavalent Chromium

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
973829	SC-700B-WDR-140	13:00	06:39	mg/L	1.05	0.00020	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	973829	ND	ND	0.00%	< 20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	973829	0.00	1.06	0.00100	0.00106	0.00106	0.00106	100%	90 - 110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.00508	0.00500	102%	90% - 110%	Yes
MRCVS#1	0.00997	0.0100	99.7%	95% - 105%	Yes
LCS	0.00509	0.00500	102%	90% - 110%	Yes
LCSD	0.00508	0.00500	102%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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REPORT

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(714) 730-6239 · FAX (714) 730-6462
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Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: One (1) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 358342.TM.02.00

P.O. No.: 358342.TM.02.00

Laboratory No.: 973829

Date: March 4, 2008

Collected: February 27, 2008

Received: February 27, 2008

Prep/ Analyzed: February 28, 2008

Analytical Batch: 02TUC08V

Investigation:

Turbidity by Method SM 2130B

Analytical Results Turbidity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
973829	SC-700B-WDR-140	13:00	NTU	1.00	0.100	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	973851	0.227	0.230	1.31%	≤ 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS	7.70	8.00	96.3%	90% - 110%	Yes
LCS	7.72	8.00	96.5%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Sam Cardo
for **Mona Nassimi, Manager**
Analytical Services

TRUESDAIL LABORATORIES, INC.

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TUSTIN, CALIFORNIA 92780-7008
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www.truesdail.com

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Laboratory No.: 973829

Date: March 4, 2008

Collected: February 27, 2008

Received: February 27, 2008

Prep/ Analyzed: February 28, 2008

Analytical Batch: 02PH08AA

Sample: One (1) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 358342.TM.02.00

P.O. No.: 358342.TM.02.00

Investigation:

pH by SM 4500-H B

Analytical Results pH

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>MDL</u>	<u>RL</u>	<u>Results</u>
973829	SC-700B-WDR-140	13:00	08:40	pH	0.0700	2.00	7.97

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Difference (Units)	Acceptance limits	QC Within Control
Duplicate	973829	7.97	7.97	0.00	+ 0.100 Units	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Difference (Units)	Acceptance Limits	QC Within Control
LCS	7.04	7.00	0.04	+ 0.100 Units	Yes
LCS #1	7.02	7.00	0.02	+ 0.100 Units	Yes
LCS #2	7.06	7.00	0.06	+ 0.100 Units	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



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REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

Sample: One (1) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 358342.TM.02.00
P.O. No.: 358342.TM.02.00

Laboratory No.: 973829

Date: March 4, 2008
Collected: February 27, 2008
Received: February 27, 2008
Prep/ Analyzed: February 28, 2008
Analytical Batch: 02EC080

Investigation:

Specific Conductivity by EPA 120.1

Analytical Results Specific Conductivity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
973829	SC-700B-WDR-140	µmhos/cm	EPA 120.1	1.00	2.00	6820

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance Limits	QC Within Control
Duplicate	973829	6820	6820	0.00%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
CCS	693	706	98.2%	90% - 110%	Yes
CVS#1	947	996	95.1%	90% - 110%	Yes
LCS	693	706	98.2%	90% - 110%	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



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REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: One (1) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 358342.TM.02.00

P.O. No.: 358342.TM.02.00

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 • FAX (714) 730-6462
www.truesdail.com

Laboratory No.: 973829

Date: March 4, 2008

Collected: February 27, 2008

Received: February 27, 2008

Prep/ Analyzed: February 28, 2008

Analytical Batch: 02TDS08P

Investigation:

Total Dissolved Solids by SM 2540C

Analytical Results Total Dissolved Solids

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>RL</u>	<u>Results</u>
973829	SC-700B-WDR-140	mg/L	SM 2540C	250	4140

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	973829	4140	4180	0.48%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS 1	495	500	99.0%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


for Mona Nassimi, Manager
Analytical Services



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

CHAIN OF CUSTODY RECORD
[IM3Plant-WDR-140]

Rec'd 02/27/08
973829

COC Number
TURNAROUND TIME 5 Days
DATE

PAGE 1 OF 1

973829

COMPANY E2
PROJECT NAME PG&E Topock
PHONE (530) 229-3303 FAX (530) 339-3303
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 358342.TM.02.00 TEAM 1
SAMPLERS (SIGNATURE) *[Signature]*

COMMENTS
pH-8.0
TEMP.-79.5
NUMBER OF CONTAINERS
3
TOTAL NUMBER OF CONTAINERS
3

DATE 2-27-08 TIME 1300 DESCRIPTION Water

SC-700B-WDR-140

RUSH

ALERT!!
Level III QC

For Sample Conditions
See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
<i>[Signature]</i>	John Deetz	OMI	2-27-08 1310 PM
<i>[Signature]</i>	<i>[Signature]</i>	Agency	2-27-08 1330 PM
<i>[Signature]</i>	<i>[Signature]</i>	Agency	2-27-08 2020
<i>[Signature]</i>	Rafael Davila	Agency	2-27-08 2010
<i>[Signature]</i>	<i>[Signature]</i>	Agency	
<i>[Signature]</i>	<i>[Signature]</i>	Agency	

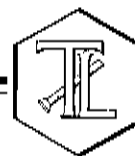
SAMPLE CONDITIONS
RECEIVED COOL ☐ WARM ☐ °F
CUSTODY SEALED YES ☐ NO ☐
SPECIAL REQUIREMENTS:

Table of Contents
TLI Laboratory Data Package
For Laboratory Number: 973316

<u>ITEM</u>	<u>Section</u>
Case Narrative	1.0
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Final Reports	3.0
Wet Chem Analysis/ Raw Data, Standard, Quality Control and Chain of Custody Records	4.0
Established Retention Time Window and Analytical Raw Data	5.0

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

February 13, 2008

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

E2 Consulting Engineers, Inc.
Mr. Shawn Duffy
155 Grand Ave., Suite 1000
Oakland, California 94612

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK IM3-IW-2 REHAB PROJECT,
TLI NO.: 973316

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3-IW-2 Rehab project. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.

The samples were received and delivered with the chain of custody on February 6, 2008, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

Results for sample South-Phase-Sep will be reported when they become available.

No other violations or nonconformance actions occurred for this data package.

If you have any questions or require additional information, please contact me at (714) 730-6239 ext. 200.

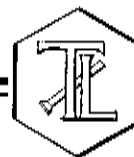
Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

Sean Condon
fo - Mona Nassimi
Manager, Analytical Services

K.R.P. Iyer
Quality Assurance/Quality Control Officer

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



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Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

REPORT

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

Laboratory No.: 973316

Received: February 6, 2008

Attention: Shawn Duffy
Samples: Two (2) Groundwaters and One (1) Soil Sample
Project Name: PG&E Topock Project
Project No.: 358342.TM.02.00
P.O. No.: 358342.TM.02.00

Analytical Results Summary

Lab I.D.	973316-1	973316-2
Sample ID:	SC-700B	MPE327-IW2GW
Time Collected:	11:45	12:30
Method:	SW 8260	SW 8260
Units:	µg/L	µg/L
Parameter		
Acrolein	ND	ND
Acrylonitrile	ND	ND
Benzene	ND	ND
Bromobenzene	ND	ND
Bromoform	ND	ND
Bromodichloromethane	ND	ND
Bromomethane	ND	ND
2-Butanone	ND	ND
n-Butylbenzene	ND	ND
sec-Butylbenzene	ND	ND
tert-Butylbenzene	ND	ND
Chlorobenzene	ND	ND
Chloroethane	ND	ND
Chloroform	ND	ND
Chloromethane	ND	ND
2-Chlorotoluene	ND	ND
4-Chlorotoluene	ND	ND
Dibromochloromethane	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND
1,2-Dibromoethane	ND	ND
1,2-Dichlorobenzene	ND	ND
1,3-Dichlorobenzene	ND	ND
1,4-Dichlorobenzene	ND	ND
Dichlorodifluoromethane	ND	ND
1,1-Dichloroethane	ND	ND
1,2-Dichloroethane	ND	ND
1,1-Dichloroethene	ND	ND

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.



TRUESDAIL LABORATORIES, INC.

Report Continued

Lab I.D.	973316-1	973316-2
Sample ID:	SC-700B	MPE327-IW2GW
Time Collected:	11:45	12:30
Method:	SW 8260	SW 8260
Units:	µg/L	µg/L

Parameter		
cis-1,2-Dichloroethene	ND	ND
trans-1,2-Dichloroethene	ND	ND
1,2-Dichloroethene (Total)	ND	ND
1,2-Dichloropropane	ND	ND
1,3-Dichloropropane	ND	ND
2,2-Dichloropropane	ND	ND
1,1-Dichloropropane	ND	ND
cis-1,3-Dichloropropene	ND	ND
trans-1,3-Dichloropropene	ND	ND
Ethyl Benzene	ND	ND
Hexachlorobutadiene	ND	ND
Isopropylbenzene	ND	ND
p-Isopropyltoluene	ND	ND
Methylene Chloride	ND	ND
Naphthalene	ND	ND
n-Propylbenzene	ND	ND
Styrene	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND
Tetrachloroethene	ND	ND
Toluene	ND	2.57
1,2,3-Trichlorobenzene	ND	ND
1,2,4-Trichlorobenzene	ND	ND
1,1,1-Trichloroethane	ND	ND
1,1,2-Trichloroethane	ND	ND
Trichloroethene	ND	ND
Trichlorofluoromethane	ND	ND
1,2,3-Trichloropropane	ND	ND
1,2,4-Trimethylbenzene	ND	ND
1,3,5-Trimethylbenzene	ND	ND
Vinyl Chloride	ND	ND
m,p-Xylene	ND	ND
o-Xylene	ND	3.36
Acetone	ND	ND
tert-Butyl Methyl Ether (MTBE)	ND	ND

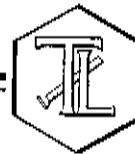
ND: Non Detected (below reporting limit)
mg/L: Milligrams per liter.

Note: The following "Significant Figures" rule has been applied to all results:
Results below 0.01ppb will have two (2) significant figures.
Result above or equal to 0.01ppb will have three (3) significant figures.
Quality Control data will always have three (3) significant figures.

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INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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March 5, 2008

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www.truesdail.com

E2 Consulting Engineers, Inc.
Mr. Shawn Duffy
155 Grand Ave., Suite 1000
Oakland, California 94612

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK IM3PLANT-WDR-137 PROJECT, SLUDGE
MONITORING,
TLI NO.: 973678

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-137 project sludge monitoring. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.

The samples were received and delivered with the chain of custody on February 20, 2008, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

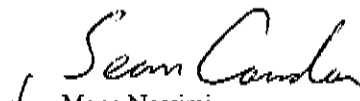
All final results and associated dilution factors are reported on a dry weight basis.

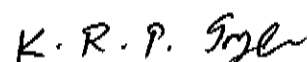
Results above the reporting limit were detected in the Method Blank (Blank Beads) for Selenium by SW 6010B. The sample result is over ten times the blank detection, therefore the data was accepted.

No other violations or nonconformance actions occurred for this data package.

If you have any questions or require additional information, please contact me at (714) 730-6239 ext. 200.

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi
Manager, Analytical Services



K.R.P. Iyer
Quality Assurance/Quality Control Officer

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: One (1) Soil Sample

Project Name: PG&E Topock Project

Project No.: 358342.TM.02.00

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Laboratory No.: 973678

Date: March 5, 2008

Collected: February 20, 2008

Received: February 20, 2008

ANALYST LIST

TEST NO.	TEST	ANALYST
EPA 300.0	Fluoride	Giawad Ghenniwa
SM 2540 B	% Moisture	Gautam Savani
SW 6010B	Metals by ICP	Michel Mendoza
SW 6020	Metals by ICP/MS	Linda Saetern
SW 7471A	Mercury	Michel Mendoza
SW 7199	Hexavalent Chromium	David Blackburn

TRUESDAIL LABORATORIES, INC.

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REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

Attention: Shawn Duffy

Laboratory No.: 973678

Sample: One (1) Soil Sample

Date: March 5, 2008

Project Name: PG&E Topock Project

Collected: February 20, 2008

Project No.: 358342.TM.02.00

Received: February 20, 2008

P.O. No.: 358342.TM.02.00

Prep/ Analyzed: February 28, 2008

Prep. Batch: 02CrH08U

Analytical Batch: 02CrH08U

Investigation:

Hexavalent Chromium by IC Using Method SW 7199

Analytical Results Hexavalent Chromium

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
973678	SC-Sludge-WDR-137	11:30	10:47	mg/kg	10.0	30.1	703

QA/QC Summary

<u>QC STD I.D.</u>	<u>Laboratory Number</u>	<u>Sample Concentration</u>	<u>Duplicate Concentration</u>	<u>Relative Percent Difference</u>	<u>Acceptance limits</u>	<u>QC Within Control</u>
Duplicate	973678	703	613	13.7%	< 20%	Yes

<u>QC Std I.D.</u>	<u>Lab Number</u>	<u>Conc. of unspiked sample</u>	<u>Dilution Factor</u>	<u>Added Spike Conc.</u>	<u>MS Amount</u>	<u>Measured Conc. of spiked sample</u>	<u>Theoretical Conc. of spiked sample</u>	<u>MS% Recovery</u>	<u>Acceptance limits</u>	<u>QC Within Control</u>
MS	973678	703	10.0	60.2	602	1400	1305	116%	75-125%	Yes
IMS	973678	703	40.0	143	5720	5730	6423	87.9%	75-125%	Yes
PDMS	973678	703	25.0	48.1	1203	2070	1906	114%	75-125%	Yes

<u>QC Std I.D.</u>	<u>Measured Concentration</u>	<u>Theoretical Concentration</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>	<u>QC Within Control</u>
MRCCS	0.0516	0.0500	103%	90% - 110%	Yes
MRCVS#1	0.0502	0.0500	100%	90% - 110%	Yes
LCS	0.0480	0.0500	96.0%	80% - 120%	Yes
LCSD	0.0468	0.0500	93.6%	80% - 120%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Shawn Corda
for **Mona Nassimi, Manager**
Analytical Services

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.

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EXCELLENCE IN INDEPENDENT TESTING



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REPORT

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: One (1) Soil Sample

Project Name: PG&E Topock Project

Project No.: 358342.TM.02.00

P.O. No.: 358342.TM.02.00

Laboratory No.: 973678

Date: March 5, 2008

Collected: February 20, 2008

Received: February 20, 2008

Prep/ Analyzed: February 22, 2008

Analytical Batch: 02AN08R

Investigation: Fluoride by Ion Chromatography using EPA 300.0

Analytical Results Fluoride

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
973678	SC-Sludge-WDR-137	11:30	10:51	mg/kg	20.0	15.0	104

QA/QC Summary

QC STD I.D.		Laboratory Number		Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control	
Duplicate		973632		1.87	1.88	0.53%	≤ 20%	Yes	

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	973632	1.87	1.00	2.00	2.00	3.87	3.87	100%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	4.20	4.00	105%	90% - 110%	Yes
MRCVS#1	3.15	3.00	105%	90% - 110%	Yes
MRCVS#2	3.18	3.00	106%	90% - 110%	Yes
LCS	4.21	4.00	105%	90% - 110%	Yes
LCSD	4.21	4.00	105%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Shawn Duffy
for Mona Nassimi, Manager
Analytical Services

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EXCELLENCE IN INDEPENDENT TESTING



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REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Samples: One (1) Soil Sample
Project Name: PG&E Topock Project
Project No.: 358342.TM.02.00
P.O. No.: 358342.TM.02.00

Investigation: Total Metal Analyses as Requested

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www.truesdail.com

Laboratory No.: 973678

Reported: March 5, 2008

Collected: February 20, 2008

Received: February 20, 2008

Analyzed: See Below

Analytical Results

SAMPLE ID: SC-Sludge-WDR-137		Time Collected: 11:30		LAB ID: 973678				
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Antimony	SW 6010B	812	497	mg/kg	74.8	022908A	02/29/08	08:19
Arsenic	SW 6010B	247	497	mg/kg	37.4	022808A	02/28/08	13:32
Barium	SW 6010B	195	497	mg/kg	37.4	022808A	02/28/08	13:32
Beryllium	SW 6010B	341	497	mg/kg	37.4	022808A	02/28/08	13:32
Cadmium	SW 6010B	75.2	497	mg/kg	74.8	022808A	02/28/08	13:32
Chromium	SW 6010B	33200	497	mg/kg	37.4	022808A	02/28/08	13:32
Cobalt	SW 6010B	21.3	49.7	mg/kg	3.74	030308A	03/03/08	15:21
Copper	SW 6010B	1350	497	mg/kg	37.4	022808A	02/28/08	13:32
Lead	SW 6010B	136	497	mg/kg	74.8	022908A	02/29/08	08:19
Mercury	SW 7471A	ND	98.8	mg/kg	0.149	02HG08Ac	02/28/08	N/A
Molybdenum	SW 6010B	ND	49.7	mg/kg	3.74	030308A	03/03/08	15:21
Nickel	SW 6010B	66.2	497	mg/kg	37.4	022808A	02/28/08	13:32
Selenium	SW 6010B	850	497	mg/kg	187	022908A	02/29/08	08:19
Silver	SW 6020	25.4	9950	mg/kg	15.0	022808A	02/28/08	14:06
Thallium	SW 6010B	ND	49.7	mg/kg	7.47	030308A	03/03/08	15:21
Vanadium	SW 6010B	195	497	mg/kg	37.4	022908A	02/29/08	08:19
Zinc	SW 6010B	2260	497	mg/kg	187	022808A	02/28/08	13:32


NOTES:

Sample results and reporting limits reported on a dry weight basis.

ND: Not detected, or below limit of detection.

DF: Dilution factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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973678

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CHAIN OF CUSTODY RECORD
[IM3Plant-WDR-137]

COC Number
TURNAROUND TIME 10 Days
DATE 2-20-08 PAGE 1 OF 1

COMPANY	E2	PROJECT NAME	PG&E Topock	PHONE	(530) 229-3303	FAX	(530) 339-3303	ADDRESS	155 Grand Ave Ste 1000 Oakland, CA 94612	P.O. NUMBER	358342.TM.02.00	TEAM	1	SAMPLERS (SIGNATURE)		
SAMPLE ID.	SC-Sludge-WDR-137	DATE	2-20-08	TIME	11:30	DESCRIPTION	Sludge									
NUMBER OF CONTAINERS														4	TOTAL NUMBER OF CONTAINERS	4
COMMENTS																
C6 (2186) Lab Filtered																
TOTAL METALS (200.7)																
AL, As, Ba, B, Cd, Cu, Pb, Mn, Mo, Ni, Sb, Fe, Zn																
Total Metals (200.7) Title 22, Mercury																
Specific Conductance (120.1)																
TDS (SM254DC)																
PH (SM4500HB)																
Amnors (300.0) FI														X		
Amnors (300.0) FI, SO4, NO2, NO3														X		
C6 (7199)														X		
Metals (60108) Title 22, Mercury														X		
Turbidity (SM2130)																
Ammonia (SM4500NH3)																

RUSH
For Sample Condition
See Form Attached

ALERT!!
Level III QC

Rec'd 02/20/08
Lab.# 973678

CHAIN OF CUSTODY SIGNATURE RECORD				SAMPLE CONDITIONS			
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	RECEIVED	COOL	WARM	°F
Signature (Received)	Bonifacio Dayag	BONIFACIO DAYAG/Agency	2-20-08 1520	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Signature (Relinquished)	Bonifacio Dayag	BONIFACIO DAYAG/Agency	2-20-08 2000	CUSTODY SEALED	YES	NO	
Signature (Received)	W. L. L.	W. L. L./Agency	2-20-08 2000	SPECIAL REQUIREMENTS:			
Signature (Relinquished)	W. L. L.	W. L. L./Agency	2-20-08 2000				
Signature (Received)	W. L. L.	W. L. L./Agency	2-20-08 2000				